CITY OF CRESCENT CITY

MAYOR ISAIAH WRIGHT | MAYOR PRO TEM CANDACE TINKLER
COUNCIL MEMBER RAY ALTMAN | COUNCIL MEMBER JASON GREENOUGH
COUNCIL MEMBER STEVE SHAMBLIN

AGENDA
REGULAR MEETING OF THE
CITY COUNCIL OF THE CITY OF CRESCENT CITY
FLYNN CENTER BOARD CHAMBERS
981 H STREET
CRESCENT CITY, CA 95531

MONDAY JUNE 15, 2026 6:00 P.M.

This meeting will be held in person at the location listed above. The City will broadcast the meeting on YouTube, however, if there is a technological issue with YouTube, the meeting will continue in person as scheduled. The public may access and participate in the public meeting by (1) attending the meeting in person and making public comment when called for by the Mayor or (2) by submitting a written comment via publiccomment@crescentcity.org or by filing it with the City Clerk at 377 J Street, Crescent City, California, 95531. All public comments (via email or mail) must be received by the City Clerk prior to 12:00 p.m. the day of the meeting. Please identify the meeting date and agenda item to which your comment pertains in the subject line. Public comments so received will be forwarded to the City Council and posted on the website next to the agenda. **Written public comments will not be read aloud during the meeting.**

Notice regarding Americans with Disabilities Act: In compliance with the Americans with Disabilities Act, if you need special assistance to participate in the meeting, please contact the City Clerk's office at (707)464-7483, ext. 12. Notification 48 hours before the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting [28 CFR 35.102-35.104 ADA Title II]. For TTYDD use for speech and hearing impaired, please dial 711. A full agenda packet may be reviewed at City Hall, 377 J Street, Crescent City, CA or on our website: www.crescentcity.org

OPEN SESSION

Call to order
Roll call
Pledge of Allegiance

CEREMONIAL ITEMS - None

REPORTS AND PRESENTATIONS

- **Crescent City Fire & Rescue - Service Acknowledgment for Vol. Capt. Jerry Cardenas**
- **Introduction of New Employees:**
  - **Building Inspector/Code Enforcement Official:**
    - **Joshua Clark**
  - **Public Works Seasonal Maintenance Workers:**
    - **Evey Delatorre**
    - **Kylin McBride**
    - **Marcellus Weaver**
- **Forest Moon Festival Report**
- **4th of July Event and Illegal Firework Enforcement Update**
- **Battery Point Apartment Project Update**

PUBLIC COMMENT PERIOD

Any member of the audience is invited to address the City Council on any matter that is within the jurisdiction of the City of Crescent City. Comments of public interest or on matters appearing on the agenda are accepted. Note, however, that the Council is not able to undertake extended discussion or act on non-agendized items. Such items can be referred to staff for appropriate action, which may include placement on a future agenda. All comments shall be directed toward the entire Council. Any comments that are not at the podium are out of order and will not be a part of the public record. After receiving recognition from the Mayor, please state your name and city or county residency for the record. Public comment is limited to three (3) minutes. The public is additionally allotted three minutes each in which to speak on any item on the agenda prior to any action taken by the Council.

CONSENT CALENDAR

The consent calendar contains items deemed to be non-controversial and routine in nature. All items on the consent calendar will be considered as a block and voted upon in one vote unless a member of the City Council "pulls" an item from consent for individual consideration. Public comment will be taken on the consent agenda as a whole, unless an item is pulled. Any pulled item will receive its own public comment opportunity.

1. **Warrant Claims List**
   - *Recommendation: Receive and file the warrant claims list for the period May 16, 2026 through May 29, 2026.*

2. **Council Minutes**
   - *Recommendation: Approve and adopt the June 1, 2026 minutes of the City Council of the City of Crescent City.*

3. **Payroll Report**
   - *Recommendation: Receive and file the biweekly payroll reports for the period ending May 30, 2026 paid June 5, 2026.*

4. **Budget to Actual Summary as of April 30, 2026**
   - *Recommendation:* Receive and file budget-to-actual summary of the City's major operating funds for Fiscal Year 2025-26 as of April 30, 2026

5. **Notice of Completion for the Crescent City Highway Safety Improvement Project (HSIP) pedestrian improvement project**
   - *Recommendation:* Authorize the City Manager to sign and file a Notice of Completion for the Crescent City HSIP pedestrian improvement project (Contract #2025-1079)

6. **Review of Draft Budget and Approval Process for the Del Norte Solid Waste Management Authority for FY 26/27**
   - *Recommendation: Take no action (a lack of response is to be treated as approval of the budget as presented)*

7. Lighthouse Cove Restroom Remodel Contingency and Apartment Exterior Stair Budget Amendment

- *Recommendation:* Authorize the City Manager to sign an additional $15,000 in future change orders for Lighthouse Cove RV Park Restroom Remodel Project
- Approve and adopt Resolution No. 2026-46, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY

8. Communications Tower Ground Lease Amendment

- *Recommendation: Approve and authorize the City Manager to sign Ground Lease Agreement No. 1 with California Rural Service Area #1, Inc. for the communications tower located on the Amador Tank parcel [APN 120-280-017]*

9. Civica Law Group Amendment No. 6

- *Recommendation: Approve and authorize the City Manager to sign Amendment No. 6 to the Legal Services Agreement with Civica Law Group*

10. Letter of Support For Del Norte Meat Processing Facility

- *Recommendation: Approve a Letter to USDA from the City Council endorsing the Del Norte Meat Processing Facility*

11. Water Supply and Demand Assessment

- Receive and approve the 2026 Annual Water Supply and Demand Assessment

PUBLIC HEARING

12. Public Hearing Annual Job Vacancy Report

- *Recommendation: Open public hearing*
- *Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Close public hearing*
- *Further Council discussion*
- *Give direction as necessary and appropriate as it pertains to vacancies, recruitment and retention*

13. Fiscal Year 2026-27 Budget, Position Control, and Appropriations Limit

- *Recommendation: Open public hearing*
- *Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Close public hearing*
- *Further Council discussion*
- Adopt Resolution No. 2026-47, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY ADOPTING THE ANNUAL BUDGET OF THE CITY OF CRESCENT CITY, INCLUDING ANY ATTACHMENTS AND/OR APPENDICES, FOR FISCAL YEAR 2026-27
- Adopt Resolution 2026-48, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY REVISING THE SALARY SCHEDULE FOR CERTAIN CONTRACT AND CONFIDENTIAL POSITIONS

- Adopt Resolution No. 2026-49, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY SELECTING THE ANNUAL ADJUSTMENT FACTORS FOR THE CALCULATION OF THE FISCAL YEAR 2026-27 APPROPRIATIONS LIMIT FOR THE CITY OF CRESCENT CITY

14. 2025 Urban Water Management Plan

- *Recommendation: Open public hearing*
- *Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Close public hearing*
- *Further Council discussion*
- Approve and Adopt Resolution No. 2026-50, A Resolution of the City Council of the City of Crescent City Adopting the 2025 Urban Water Management Plan

CONTINUING BUSINESS - None

NEW BUSINESS

15. 2025-2030 Del Norte County Comprehensive Economic Development Strategy (CEDS)

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- Approve and Authorize the City Manager to sign an Agreement with TPMA, LLC to update the Del Norte County CEDS for the years 2025-2030
- Mayor to appoint and Council to confirm the appointment of two Council Members to a CEDS ad hoc / steering committee

16. Uncharted Shores Academy Lease – 475 7th Street

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comments*
- *Council discussion and deliberation*
- *Approve and authorize the City Manager to sign the Lease with Uncharted Shores Academy for 475 7th Street*

17. Storm Drain Master Plan

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- *Approve and adopt Resolution No. 2026-51, A Resolution of the City Council of the City of Crescent Approving the Storm Drain Master Plan Prepared by GHD Inc.*
- *Receive and approve the GHD Technical Memorandum – Extreme Event October 13, 2025, analysis*

18. Appointment to Ad Hoc Committees

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- *Mayor to appoint and Council to confirm the appointment of two Council Members to each of the following ad hoc committees: the Lighthouse Cove RV Park ad hoc committee, the Fred Endert Municipal Pool ad hoc committee, Planning Fees ad hoc committee, and Beachfront Park ad hoc committee*

CITY COUNCIL ITEMS

- **Reports, Concerns, Referrals, Council travel and training reports –** In accordance with Gov't Code § 54954.2(a), City Council Members may make brief announcements or brief reports on their own activities. They may ask questions for clarification, make a referral to staff or take action to have staff place a matter of business on a future agenda.
- **Legislative Matters –** Consider miscellaneous legislative matters pertinent to the City of Crescent City. Authorize the Mayor to sign the appropriate letters and/or positions with respect to such matters.
- **City Manager Report and City Council Directives –** Pursuant to Crescent City Municipal Code § 2.08.200, the City Council may instruct the city manager on matters of importance to the administrative services of the City and provide direction with respect to subordinates of the City Manager. (Directives from individual Council Members that are not objected to by any member present shall be considered an order of the City Council.)

ADJOURNMENT

Adjourn to the regular meeting of the City Council of the City of Crescent City on Monday, July 6, 2026 at 6:00 p.m. at the Flynn Center Board Chambers, 981 H Street, Crescent City, CA 95531.

POSTED:
June 11, 2026
/s/ Eric Wier, City Manager for Robin Altman, City Clerk/Administrative Analyst

Vision:
The City of Crescent City will continue to stand the test of time and promote quality of life and community pride for our residents, businesses and visitors through leadership, diversity, and teamwork.

Mission:
The purpose of our city is to promote a high quality of life, leadership and services to the residents, businesses, and visitors we serve. The City is dedicated to providing the most efficient, innovative and economically sound municipal services building on our diverse history, culture and unique natural resources.

Values:
Accountability - Honesty & Integrity - Excellent Customer Service - Effective & Active Communication -Teamwork – Fiscally Responsible

Accounts Payable

Checks by Date - Summary by Check Number

User: kbates@crescentcity.org
Printed: 6/2/2026 1:15 PM

REVIEWED
kkozak , 6/2/2026, 3:16:45 PM

Check No	Vendor No	Vendor Name	Check Date		Void Checks	Check Amount
ACH	EDDTAX	State of California EDD TAX Auto Pay	05/26/2026		0.00	6,690.36
ACH	FITTAX	FIT Payroll Taxes Auto Pay	05/26/2026		0.00	26,137.61
ACH	PERS2	Public Emp Retirement Sys	05/26/2026		0.00	39,980.12
ACH	FITTAX	FIT Payroll Taxes Auto Pay	05/19/2026		0.00	42.47
ACH	FITTAX	FIT Payroll Taxes Auto Pay	05/27/2026		0.00	52.01
451152	AMAZON	Amazon Capital Services, Inc	05/18/2026		0.00	1,541.51
451153	BARONEMi	Misty Barone	05/18/2026		0.00	55.00
451154	BERRMin	Mindy Berry	05/18/2026		0.00	55.00
451155	BERTSC	Bertsch-Oceanview Csd	05/18/2026		0.00	8,500.40
451156	BIDDLECK	Keith Biddlecom	05/18/2026		0.00	54.00
451157	BLUEST	Blue Star Gas Associates	05/18/2026		0.00	197.32
451158	CRENNE	C Renner Petroleum Inc	05/18/2026		0.00	4,498.15
451159	CANON	Canon Solutions America Inc	05/18/2026		0.00	72.55
451160	CHARTEC	Charter Communications	05/18/2026		0.00	1,134.95
451161	CHURCH	Churchtree Csd	05/18/2026		0.00	617.87
451162	UB*06441	THOMAS CLARK	05/18/2026		0.00	224.07
451163	CRISSMAN	Ted Crissman	05/18/2026		0.00	55.00
451164	DNCOFL	D N Co Flood Control Dist	05/18/2026		0.00	603.56
451165	DNCBOS	Del Norte County	05/18/2026		0.00	220.00
451166	DNCO	Del Norte County	05/18/2026		0.00	2,838.35
451167	DELLMA	Dell Marketing LP	05/18/2026		0.00	1,294.19
451168	UB*06439	JONATHAN DILLON-WARD	05/18/2026		0.00	5.75
451169	DISTOP	Distributor Operations, Inc.	05/18/2026		0.00	149.33
451170	ENGLUN	Englund Marine Supply Co.	05/18/2026		0.00	88.28
451171	EUREKAO	Eureka Oxygen Co.	05/18/2026		0.00	88.60
451172	UB*06433	CHARLOTTE FAKIER	05/18/2026		0.00	215.74
451173	VERIZO2	Frontier California Inc	05/18/2026		0.00	1,961.06
451174	FRUGCynt	Cynthia Fruguglietti	05/18/2026		0.00	22.00
451175	HDFOWLER	H. D. Fowler Company, Inc	05/18/2026		0.00	9,320.31
451176	HACHCO	Hach Company Inc	05/18/2026		0.00	4,683.71
451177	HAMWSG	Hambro WSG Inc	05/18/2026		0.00	3,733.88
451178	HEMMIN	Hemmingsen Contracting Co Inc	05/18/2026	VOID	1,672.46	0.00
451179	UB*06443	JUDY HUGHES	05/18/2026		0.00	119.31
451180	INDUSTST	Industrial Steel & Supply Co, Inc	05/18/2026		0.00	74.40
451181	RECALL	Iron Mountain	05/18/2026		0.00	153.60
451182	UB*06434	DOMINICK JOHNSON	05/18/2026		0.00	79.18
451183	UB*06440	MONICA LANDO	05/18/2026		0.00	101.42
451184	LONGCHRI	Christopher Long	05/18/2026		0.00	129.00
451185	UB*06442	JOCELYN LONNON	05/18/2026		0.00	192.91
451186	UB*06437	ELISABETH MAYERS	05/18/2026		0.00	230.02
451187	MCDANIEL	Kenny McDaniel	05/18/2026		0.00	139.00
451188	MISSIO	Mission Linen Supply	05/18/2026		0.00	124.33
451189	MORGONL	Laurent Morgon	05/18/2026		0.00	139.00
451190	NCCENT	NCL of Wisconsin Inc	05/18/2026		0.00	855.69
451191	OREILLY	O'Reilly Auto Enterprises LLC	05/18/2026		0.00	86.85
451192	MENDES	Pacific Packaging & Supply Co Inc	05/18/2026		0.00	666.82
451193	COMMDEV	Parker, Lucas and Associates	05/18/2026		0.00	15,937.50

Check No	Vendor No	Vendor Name	Check Date	Void Checks	Check Amount
451194	SUPERI	Petrusha Enterprises Inc	05/18/2026	0.00	215.02
451195	QUADLEAS	Quadient Leasing USA, Inc	05/18/2026	0.00	234.16
451196	DNDISP	Recology Del Norte	05/18/2026	0.00	1,931.16
451197	UB*06444	BRENDA ROBBINS	05/18/2026	0.00	80.02
451198	ROBERTSD	Deanna Roberts	05/18/2026	0.00	75.00
451199	UB*06435	ERIC ROGERS	05/18/2026	0.00	150.32
451200	RUPPERTM	Merle Ruppert	05/18/2026	0.00	55.00
451201	SPRING	SBRK Finance Holdings, Inc	05/18/2026	0.00	2,894.80
451202	SHNCON	SHN Consulting Engineers & Geologists In	05/18/2026	0.00	29,137.65
451203	SPERLING	Connor Sperling	05/18/2026	0.00	136.00
451204	IAMSTAR	Starguard Elite LLC	05/18/2026	0.00	120.00
451205	UB*06436	RANDALL STEWART	05/18/2026	0.00	157.77
451206	DNOFFI	Debra Stover	05/18/2026	0.00	42.27
451207	TBPENICK	T.B. Penick & Sons, Inc.	05/18/2026	0.00	151,441.50
451208	TIDEWA	Tidewater Contractors Inc	05/18/2026	0.00	1,333.45
451209	UB*06438	NATASHA TORRES	05/18/2026	0.00	78.25
451210	UB*06396	GRACE TYRRELL	05/18/2026	0.00	31.40
451211	RAYMOR	UBEO West, LLC	05/18/2026	0.00	203.28
451212	CALCARDS	US Bank Corporate Pmt Systems	05/18/2026	0.00	14,255.10
451213	USPS	USPS (QUADIENT - POC)	05/18/2026	0.00	5,000.00
451214	VEAUTOUR	John Veautour	05/18/2026	0.00	392.00
451215	WILLHUD	Hudson Williams	05/18/2026	0.00	262.20
451216	UB*06432	THOMAS WILSON	05/18/2026	0.00	250.00
451218	ICMARE	Mission Square	05/19/2026	0.00	43.56
451219	CASTATE	CA State Disbursement Unit	05/26/2026	0.00	88.84
451220	WAMUTU	Crescent City Employees Association	05/26/2026	0.00	90.00
451221	CCPOLI	Crescent City Police Officer's Assoc	05/26/2026	0.00	550.00
451222	ICMARE	Mission Square	05/26/2026	0.00	4,670.53
451223	PORACRMT	PORAC RMT	05/26/2026	0.00	550.00
451224	ATTClets	A T & T Corp	05/26/2026	0.00	31.38
451225	ADAMSASH	Adams Ashby Group	05/26/2026	0.00	3,000.00
451226	AMAZON	Amazon Capital Services, Inc	05/26/2026	0.00	215.01
451227	BLUEST	Blue Star Gas Associates	05/26/2026	0.00	11.00
451228	BOBERTZG	Gloria Bobertz	05/26/2026	0.00	97.45
451229	ZCANVAWV	CA-NV Section	05/26/2026	0.00	285.00
451230	CARAHSOF	Carahsoft Technology Corporation	05/26/2026	0.00	1,865.00
451231	CHARTEC	Charter Communications	05/26/2026	0.00	1,884.52
451232	CIVICA	Civica Law Group APC	05/26/2026	0.00	3,535.60
451233	CLIGM	Michael Clig	05/26/2026	0.00	381.00
451234	CUMMIN	Cummins Pacific LLC	05/26/2026	0.00	9,010.70
451235	DeCossKr	Kris DeCossio	05/26/2026	0.00	75.00
451236	DEFELICE	Karen DeFelice	05/26/2026	0.00	139.00
451237	DNTRIBAL	DN & Tribal Lands Community Food Coun	05/26/2026	0.00	780.00
451238	FASTENAL	Fastenal Company	05/26/2026	0.00	444.30
451239	FILLIPAJ	Jordan Fillippa	05/26/2026	0.00	43.00
451240	FRESWATE	Freshwater Environmental Services Inc	05/26/2026	0.00	11,499.50
451241	VERIZO2	Frontier California Inc	05/26/2026	0.00	790.00
451242	GEORGE	George Petty Inc	05/26/2026	0.00	84.86
451243	GRSUND	GR Sundberg Inc	05/26/2026	0.00	41,836.04
451244	GRAING	Grainger	05/26/2026	0.00	77.57
451245	GRIFFINR	Richard Griffin	05/26/2026	0.00	64.50
451246	HDFOWLER	H. D. Fowler Company, Inc	05/26/2026	0.00	2,697.37
451247	HAMWSG	Hambro WSG Inc	05/26/2026	0.00	4,441.69
451248	HEMMIN	Hemmingsen Contracting Co Inc	05/26/2026	0.00	1,428.90
451249	HYATTS	Shawna Hyatt	05/26/2026	0.00	75.00
451250	INDEPE	Independent Business Forms, Inc	05/26/2026	0.00	2,666.92
451251	INDUSTST	Industrial Steel & Supply Co, Inc	05/26/2026	0.00	21.26

Check No	Vendor No	Vendor Name	Check Date	Void Checks	Check Amount
451252	KERRB	Brenda Kerr	05/26/2026	0.00	51.00
451253	LANEG	George Michael Lane	05/26/2026	0.00	139.00
451254	MARTINEP	Paul Martinez	05/26/2026	0.00	25.00
451255	MISSIO	Mission Linen Supply	05/26/2026	0.00	163.52
451256	MITCHELL	Mitchell Repair Information Company, LL(	05/26/2026	0.00	3,060.00
451257	UB*06369	DWAYNE MOOREHOUSE	05/26/2026	0.00	234.26
451258	NAVARO	Chris Navaro	05/26/2026	0.00	186.30
451259	NORTHR	Northridge Electric LLC	05/26/2026	0.00	1,320.00
451260	NORTHWD	Northwood Auto Plaza Inc	05/26/2026	0.00	525.00
451261	OREILLY	O'Reilly Auto Enterprises LLC	05/26/2026	0.00	1,009.16
451262	PACESUPP	Pace Supply Corp	05/26/2026	0.00	1,259.89
451263	MENDES	Pacific Packaging & Supply Co Inc	05/26/2026	0.00	258.63
451264	PERIUSD	Debra Perius	05/26/2026	0.00	75.00
451265	SUPERI	Petrusha Enterprises Inc	05/26/2026	0.00	804.65
451266	RAMSEYC	Craig Ramsey	05/26/2026	0.00	55.00
451267	SMITHB	Brayden Smith	05/26/2026	0.00	9.30
451268	SRA	Smith River Alliance, Inc.	05/26/2026	0.00	628.68
451269	ZCAWTR1	St Wtr Resource Cntrl Brd	05/26/2026	0.00	80.00
451270	DNOFFI	Debra Stover	05/26/2026	0.00	294.77
451271	SUBURBAN	Suburban Propane, L.P.	05/26/2026	0.00	41.97
451272	THOMASA	Thomas and Associates	05/26/2026	0.00	8,256.37
451273	TIDEWA	Tidewater Contractors Inc	05/26/2026	0.00	1,319.78
451274	UNIVAR	Univar Solutions USA Inc.	05/26/2026	0.00	17,059.08
451275	CALCARDS	US Bank Corporate Pmt Systems	05/26/2026	0.00	774.92
451276	UTILITYS	Utility Services Associates	05/26/2026	0.00	21,300.00
451277	VANHOOKC	Cliff Van Hook	05/26/2026	0.00	154.99
451278	WALPR	Ray Walp	05/26/2026	0.00	75.00
451279	YBARRARI	Richard Ybarra	05/26/2026	0.00	166.09
451280	ICMARE	Mission Square	05/27/2026	0.00	49.38
			Report Total (133 checks):	1,672.46	495,489.77

AP
05-16-26 to 05-29-26 Council

REVIEWED
kkozak , 6/2/2026, 3:16:52 PM

User: kbates@crescentcity.org
Printed: 6/2/2026 1:12:39 PM

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
0	5/19/2026	610-000-2188-00000	PR Batch 00222.05.2026 Medicare Employee Portion	8.42	False
0	5/19/2026	610-000-2189-00000	PR Batch 00222.05.2026 Federal Income Tax	25.63	False
0	5/19/2026	610-000-2188-00000	PR Batch 00222.05.2026 Medicare Employer Portion	8.42	False
0	5/26/2026	610-000-2185-00000	PR Batch 00022.05.2026 State Income Tax	2,817.69	False
0	5/26/2026	610-000-2185-00000	PR Batch 00002.05.2026 State Income Tax	3,872.67	False
0	5/26/2026	610-000-2188-00000	PR Batch 00022.05.2026 Medicare Employee Portion	1,334.46	False
0	5/26/2026	610-000-2189-00000	PR Batch 00022.05.2026 Federal Income Tax	7,777.45	False
0	5/26/2026	610-000-2189-00000	PR Batch 00002.05.2026 Federal Income Tax	11,768.98	False
0	5/26/2026	610-000-2188-00000	PR Batch 00002.05.2026 Medicare Employee Portion	1,961.13	False
0	5/26/2026	610-000-2188-00000	PR Batch 00022.05.2026 Medicare Employer Portion	1,334.46	False
0	5/26/2026	610-000-2188-00000	PR Batch 00002.05.2026 Medicare Employer Portion	1,961.13	False
0	5/26/2026	610-000-2187-00000	PR Batch 00022.05.2026 ER PERS Contribution	9,154.81	False
0	5/26/2026	610-000-2187-00000	PR Batch 00002.05.2026 EE PERS Contribution	9,695.82	False
0	5/26/2026	610-000-2187-00000	PR Batch 00002.05.2026 MO EE PERS Contribution	190.84	False
0	5/26/2026	610-000-2187-00000	PR Batch 00002.05.2026 Service Credit Purchase	413.20	False
0	5/26/2026	610-000-2187-00000	PR Batch 00002.05.2026 ER PERS Contribution	12,780.00	False
0	5/26/2026	610-000-2187-00000	PR Batch 00022.05.2026 EE PERS Contribution	7,315.60	False
0	5/26/2026	610-000-2187-00000	PR Batch 00022.05.2026 Survivor Benefit	21.87	False
0	5/26/2026	610-000-2187-00000	PR Batch 00022.05.2026 EE PERS 4850 Contribution	369.85	False
0	5/26/2026	610-000-2187-00000	PR Batch 00002.05.2026 Survivor Benefit	38.13	False
0	5/27/2026	610-000-2188-00000	PR Batch 00333.05.2026 Medicare Employee Portion	9.55	False
0	5/27/2026	610-000-2188-00000	PR Batch 00333.05.2026 Medicare Employer Portion	9.55	False
0	5/27/2026	610-000-2189-00000	PR Batch 00333.05.2026 Federal Income Tax	32.91	False
451152	5/18/2026	001-480-4320-00000	uniforms	21.64	False
451152	5/18/2026	001-240-4390-00000	sign parts	23.47	False
451152	5/18/2026	412-100-4799-COAST	Mobile RR/Shower Trailer Supplies - NOT CAP ASSET	75.76	False
451152	5/18/2026	412-100-4799-COAST	Mobile RR/Shower Trailer Supplies - NOT CAP ASSET	46.23	False
451152	5/18/2026	001-120-4310-00000	business license paper	31.39	False
451152	5/18/2026	001-240-4390-BCKPK	backpacks and supplies	369.24	False
451152	5/18/2026	001-112-4390-00000	forest moon prizes	33.32	False
451152	5/18/2026	001-240-4310-00000	magnetic push pins, dry erase board, eye wash station bottles	223.57	False
451152	5/18/2026	001-240-4390-00000	evidence bags	570.75	False
451152	5/18/2026	420-115-4390-00000	wireless keyboards	51.94	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451152	5/18/2026	001-112-4390-00000	RETURN: Forest Moon - Prizes	-19.47	False
451152	5/18/2026	419-120-4310-00000	planner	3.61	False
451152	5/18/2026	001-120-4310-00000	planner	3.60	False
451152	5/18/2026	413-120-4310-00000	planner	3.60	False
451152	5/18/2026	001-113-4310-00000	pool photos for wall	1.00	False
451152	5/18/2026	412-113-4310-00000	pool photos for wall	0.13	False
451152	5/18/2026	419-113-4310-00000	pool photos for wall	1.01	False
451152	5/18/2026	413-113-4310-00000	pool photos for wall	1.00	False
451152	5/18/2026	001-112-4392-00000	Forest moon - prizes	49.95	False
451152	5/18/2026	001-120-4310-00000	sticky notepads	5.77	False
451152	5/18/2026	413-120-4310-00000	sticky notepads	5.77	False
451152	5/18/2026	419-120-4310-00000	sticky notepads	5.77	False
451153	5/18/2026	412-000-3570-00000	REFUND: 5/21-5/24/26 Stay (Conf# 13349)	50.00	False
451153	5/18/2026	001-000-3221-00000	REFUND: 5/21-5/24/26 Stay (Conf# 13349)	5.00	False
451154	5/18/2026	001-000-3221-00000	REFUND: 07/12-07/22/26 Stay (Conf# 13036)	5.00	False
451154	5/18/2026	412-000-3570-00000	REFUND: 07/12-07/22/26 Stay (Conf# 13036)	50.00	False
451155	5/18/2026	419-372-3821-41028	Monthly Maintenance: Apr 2026	8,500.40	False
451156	5/18/2026	001-480-4530-00000	4/10-4/13/26 - Eugene,OR - Starguard Elite - meals	54.00	False
451157	5/18/2026	001-230-4220-00000	Propane - City Station - Acct# 209979	197.32	False
451158	5/18/2026	001-240-4330-00000	FY26 Fuel for Patrol Cars - Apr 2026	3,620.96	False
451158	5/18/2026	001-240-4330-00000	FY26 Fuel for Patrol Cars - Apr 2026	877.19	False
451159	5/18/2026	001-350-4450-00000	copier maintenance: 03/25/26-04/24/26	50.68	False
451159	5/18/2026	001-350-4450-00000	copier maintenance: 04/25/26-05/24/26	21.87	False
451160	5/18/2026	412-130-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	0.56	False
451160	5/18/2026	001-480-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	2.86	False
451160	5/18/2026	001-364-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.80	False
451160	5/18/2026	001-471-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	2.60	False
451160	5/18/2026	419-371-4230-00000	broadband for security - 05/01/26-05/31/26	100.00	False
451160	5/18/2026	412-114-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	0.29	False
451160	5/18/2026	001-130-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.99	False
451160	5/18/2026	001-470-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	1.37	False
451160	5/18/2026	419-371-4230-00000	Internet Svc (246787001 - Burtschell) - 05/01/26-05/31/26	109.99	False
451160	5/18/2026	412-113-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	0.44	False
451160	5/18/2026	412-100-4230-00000	Internet Service - - 05/01/26-05/31/26	170.00	False
451160	5/18/2026	413-111-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.42	False
451160	5/18/2026	001-113-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.47	False
451160	5/18/2026	413-120-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	20.31	False
451160	5/18/2026	419-111-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.76	False
451160	5/18/2026	001-350-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	9.51	False
451160	5/18/2026	413-130-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	2.00	False
451160	5/18/2026	001-313-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	4.85	False
451160	5/18/2026	001-250-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	4.18	False
451160	5/18/2026	412-120-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.15	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451160	5/18/2026	419-120-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	20.16	False
451160	5/18/2026	412-111-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	0.56	False
451160	5/18/2026	419-114-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	1.58	False
451160	5/18/2026	001-240-4390-AB109	Cyber Forensics Internet Service - 05/01/26-05/31/26	169.99	False
451160	5/18/2026	413-352-4230-00000	broadband for security - 05/01/26-05/31/26	114.99	False
451160	5/18/2026	001-112-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	7.77	False
451160	5/18/2026	001-114-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	8.17	False
451160	5/18/2026	419-371-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	12.16	False
451160	5/18/2026	413-113-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.47	False
451160	5/18/2026	413-114-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	1.34	False
451160	5/18/2026	419-371-4230-00000	Internet Svc (246595701 - Amador) - - 05/01/26-05/31/26	159.99	False
451160	5/18/2026	001-120-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	18.83	False
451160	5/18/2026	420-115-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	22.83	False
451160	5/18/2026	412-100-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	2.86	False
451160	5/18/2026	001-111-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.65	False
451160	5/18/2026	413-353-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.80	False
451160	5/18/2026	001-251-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	18.44	False
451160	5/18/2026	413-357-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	6.66	False
451160	5/18/2026	419-371-4230-00000	broadband for security - 05/01/26-05/31/26	100.00	False
451160	5/18/2026	419-113-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	3.46	False
451160	5/18/2026	413-352-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	1.70	False
451160	5/18/2026	419-130-4230-00000	177063601 CH Internet Service - 05/01/26-05/31/26	1.99	False
451161	5/18/2026	419-372-3822-41029	Monthly Maintenance: Apr 2026	617.87	False
451162	5/18/2026	419-000-2110-00000	Refund Check 108630-000, 701 KERN ST	224.07	False
451163	5/18/2026	001-000-3221-00000	REFUND: 08/24-08/26/26 Stay (Conf# 13417)	5.00	False
451163	5/18/2026	412-000-3570-00000	REFUND: 08/24-08/26/26 Stay (Conf# 13417)	50.00	False
451164	5/18/2026	419-372-3823-41030	Monthly Maintenance: Apr 2026	603.56	False
451165	5/18/2026	419-113-4450-00000	Board Chamber Rentals - Council Meetings - 4/6/26 & 4/20/26	70.40	False
451165	5/18/2026	001-113-4450-00000	Board Chamber Rentals - Council Meetings - 4/6/26 & 4/20/26	70.40	False
451165	5/18/2026	413-113-4450-00000	Board Chamber Rentals - Council Meetings - 4/6/26 & 4/20/26	70.40	False
451165	5/18/2026	412-113-4450-00000	Board Chamber Rentals - Council Meetings - 4/6/26 & 4/20/26	8.80	False
451166	5/18/2026	117-364-4789-00000	RMRA pass-through per annex agreement - Feb Revenue	1,889.06	False
451166	5/18/2026	115-364-4785-00000	Gas Tax Sec 2105 pass-through per annex agreement - Mar Revenue	398.92	False
451166	5/18/2026	115-364-4787-00000	Gas Tax Sec 2107 pass-through per annex agreement - Mar Revenue	550.37	False
451167	5/18/2026	419-371-4312-00000	Computer refresh for PW manager	854.17	False
451167	5/18/2026	413-353-4312-00000	Computer refresh for PW manager	220.01	False
451167	5/18/2026	001-364-4312-00000	Computer refresh for PW manager	220.01	False
451168	5/18/2026	419-000-2110-00000	Refund Check 113403-000, 940 MURPHY AVE	5.75	False
451169	5/18/2026	001-240-4391-00000	Vehicle parts - MTP-65HD	149.33	False
451170	5/18/2026	413-353-4390-00000	rope & hook	88.28	False
451171	5/18/2026	001-230-4370-00000	cylinder rental	88.60	False
451172	5/18/2026	419-000-2110-00000	Refund Check 113087-000, 1484 MACKEN AVE #B	215.74	False
451173	5/18/2026	413-111-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.71	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451173	5/18/2026	001-251-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	9.23	False
451173	5/18/2026	420-115-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	11.43	False
451173	5/18/2026	001-350-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	4.76	False
451173	5/18/2026	001-364-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.91	False
451173	5/18/2026	419-120-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	10.09	False
451173	5/18/2026	413-357-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	3.34	False
451173	5/18/2026	001-130-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.99	False
451173	5/18/2026	413-351-4230-00000	707 465-5275 Lab Phone Line - 04/30/26-05/29/26	209.75	False
451173	5/18/2026	001-471-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.30	False
451173	5/18/2026	001-120-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	9.43	False
451173	5/18/2026	412-111-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	0.29	False
451173	5/18/2026	413-113-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.74	False
451173	5/18/2026	001-470-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	0.68	False
451173	5/18/2026	001-114-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	4.09	False
451173	5/18/2026	413-353-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.90	False
451173	5/18/2026	001-480-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.43	False
451173	5/18/2026	413-352-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	0.85	False
451173	5/18/2026	001-113-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.73	False
451173	5/18/2026	413-352-4230-00000	Treatment Plant Phone: 465-3054 - 04/30/26-05/29/26	308.21	False
451173	5/18/2026	412-100-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.43	False
451173	5/18/2026	419-371-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	6.09	False
451173	5/18/2026	419-114-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	0.78	False
451173	5/18/2026	419-113-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.73	False
451173	5/18/2026	419-111-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.88	False
451173	5/18/2026	419-130-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.00	False
451173	5/18/2026	412-130-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	0.28	False
451173	5/18/2026	001-471-4230-00000	Cult Cntr Elev Alrm 707-464-4582 - 04/30/26-05/29/26	116.04	False
451173	5/18/2026	001-313-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	2.43	False
451173	5/18/2026	413-130-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.00	False
451173	5/18/2026	001-111-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.83	False
451173	5/18/2026	508-508-4230-00000	707-464-6628 Corp Yard Fax - 04/30/26-05/29/26	186.50	False
451173	5/18/2026	412-114-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	0.14	False
451173	5/18/2026	001-112-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	3.89	False
451173	5/18/2026	413-120-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	10.16	False
451173	5/18/2026	001-480-4230-00000	707-464-6940 monthly phone - 04/30/26-05/29/26	104.25	False
451173	5/18/2026	413-114-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	0.68	False
451173	5/18/2026	001-480-4230-00000	707-464-1372 monthly phone - 04/30/26-05/29/26	113.03	False
451173	5/18/2026	001-471-4230-00000	707-465-3914 monthly phone - 04/30/26-05/29/26	117.90	False
451173	5/18/2026	413-352-4230-00000	WWTP phone - 04/30/26-05/29/26	339.82	False
451173	5/18/2026	001-250-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	2.09	False
451173	5/18/2026	412-113-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	0.22	False
451173	5/18/2026	412-120-4230-00000	707 465-4405 downstairs fax - 04/30/26-05/29/26	1.58	False
451173	5/18/2026	001-240-4230-00000	707-465-5129 monthly phone - 04/30/26-05/29/26	186.50	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451174	5/18/2026	412-000-3570-00000	REFUND: 07/05-07/13/26 Stay (Conf# 13573)	20.00	False
451174	5/18/2026	001-000-3221-00000	REFUND: 07/05-07/13/26 Stay (Conf# 13573)	2.00	False
451175	5/18/2026	419-371-4390-00000	galvanized parts	428.13	False
451175	5/18/2026	001-470-4390-00000	4" RP backflow device/parts Peterson Park	8,437.53	False
451175	5/18/2026	001-364-4390-10025	monument lids	454.65	False
451176	5/18/2026	413-351-4390-00000	Replacement of HACH turbidimeter	4,683.71	False
451177	5/18/2026	413-000-1202-00000	sludge processing	1,476.39	False
451177	5/18/2026	413-000-1202-00000	sludge processing	2,257.49	False
451179	5/18/2026	419-000-2110-00000	Refund Check 009703-001, 1035 KELLER AVE	119.31	False
451180	5/18/2026	001-112-4390-00000	flower basket parts	74.40	False
451181	5/18/2026	001-113-4450-00000	Document shredding svc - 03/25/26-04/21/26	49.15	False
451181	5/18/2026	419-113-4450-00000	Document shredding svc - 03/25/26-04/21/26	49.16	False
451181	5/18/2026	413-113-4450-00000	Document shredding svc - 03/25/26-04/21/26	49.15	False
451181	5/18/2026	412-113-4450-00000	Document shredding svc - 03/25/26-04/21/26	6.14	False
451182	5/18/2026	419-000-2110-00000	Refund Check 112941-000, 309 HILL ST	79.18	False
451183	5/18/2026	419-000-2110-00000	Refund Check 112167-000, 2440 DODANE AVE	101.42	False
451184	5/18/2026	413-357-4530-00000	4/10-4/11/26 - Auburn, CA - Pick up WWTP part - meals	129.00	False
451185	5/18/2026	419-000-2110-00000	Refund Check 113448-000, 195 DREAM ST	192.91	False
451186	5/18/2026	419-000-2110-00000	Refund Check 112396-000, 241 BREAKWATER DR	230.02	False
451187	5/18/2026	001-000-3221-00000	REFUND: 5/21-5/23/26 Stay (Conf# 13423)	12.64	False
451187	5/18/2026	412-000-3570-00000	REFUND: 5/21-5/23/26 Stay (Conf# 13423)	126.36	False
451188	5/18/2026	413-351-4320-00000	FY 26 Laundry services/uniforms	26.19	False
451188	5/18/2026	001-480-4370-00000	janitorial supplies - mats	72.48	False
451188	5/18/2026	413-113-4370-00000	City Hall Mats	0.42	False
451188	5/18/2026	001-114-4370-00000	City Hall Mats	0.99	False
451188	5/18/2026	413-130-4370-00000	City Hall Mats	0.24	False
451188	5/18/2026	001-364-4370-00000	City Hall Mats	0.47	False
451188	5/18/2026	001-112-4370-00000	City Hall Mats	0.95	False
451188	5/18/2026	001-250-4370-00000	City Hall Mats	0.51	False
451188	5/18/2026	419-120-4370-00000	City Hall Mats	2.47	False
451188	5/18/2026	419-113-4370-00000	City Hall Mats	0.42	False
451188	5/18/2026	419-111-4370-00000	City Hall Mats	0.46	False
451188	5/18/2026	001-470-4370-00000	City Hall Mats	0.17	False
451188	5/18/2026	412-100-4370-00000	City Hall Mats	0.35	False
451188	5/18/2026	001-350-4370-00000	City Hall Mats	1.16	False
451188	5/18/2026	419-371-4370-00000	City Hall Mats	1.49	False
451188	5/18/2026	412-113-4370-00000	City Hall Mats	0.06	False
451188	5/18/2026	413-120-4370-00000	City Hall Mats	2.48	False
451188	5/18/2026	412-130-4370-00000	City Hall Mats	0.07	False
451188	5/18/2026	413-357-4370-00000	City Hall Mats	0.82	False
451188	5/18/2026	419-130-4370-00000	City Hall Mats	0.25	False
451188	5/18/2026	001-111-4370-00000	City Hall Mats	0.45	False
451188	5/18/2026	413-353-4370-00000	City Hall Mats	0.47	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451188	5/18/2026	001-113-4370-00000	City Hall Mats	0.42	False
451188	5/18/2026	413-352-4370-00000	City Hall Mats	0.20	False
451188	5/18/2026	001-313-4370-00000	City Hall Mats	0.59	False
451188	5/18/2026	413-114-4370-00000	City Hall Mats	0.17	False
451188	5/18/2026	412-114-4370-00000	City Hall Mats	0.03	False
451188	5/18/2026	001-120-4370-00000	City Hall Mats	2.30	False
451188	5/18/2026	001-130-4370-00000	City Hall Mats	0.48	False
451188	5/18/2026	412-111-4370-00000	City Hall Mats	0.07	False
451188	5/18/2026	420-115-4370-00000	City Hall Mats	2.79	False
451188	5/18/2026	412-120-4370-00000	City Hall Mats	0.39	False
451188	5/18/2026	413-111-4370-00000	City Hall Mats	0.42	False
451188	5/18/2026	419-114-4370-00000	City Hall Mats	0.19	False
451188	5/18/2026	001-480-4370-00000	City Hall Mats	0.35	False
451188	5/18/2026	001-251-4370-00000	City Hall Mats	2.25	False
451188	5/18/2026	001-471-4370-00000	City Hall Mats	0.31	False
451189	5/18/2026	412-000-3570-00000	REFUND: 5/26-5/28/26 stay (Conf# 13728)	126.36	False
451189	5/18/2026	001-000-3221-00000	REFUND: 5/26-5/28/26 stay (Conf# 13728)	12.64	False
451190	5/18/2026	413-000-2122-00000	FY26 Reagents and Other Lab Supplies - TAX	-68.30	False
451190	5/18/2026	413-351-4390-00000	FY26 Reagents and Other Lab Supplies	923.99	False
451191	5/18/2026	508-508-4390-00000	hose & clamps	11.68	False
451191	5/18/2026	001-230-4390-00000	truck wash & cleaning supplies for apparatus maintenance	75.17	False
451192	5/18/2026	508-508-4370-00000	Janitorial Supplies- City-Wide	33.34	False
451192	5/18/2026	001-114-4370-00000	Janitorial Supplies- City-Wide	2.66	False
451192	5/18/2026	001-113-4370-00000	Janitorial Supplies- City-Wide	2.67	False
451192	5/18/2026	413-352-4370-00000	Janitorial Supplies- City-Wide	26.67	False
451192	5/18/2026	001-120-4370-00000	Janitorial Supplies- City-Wide	10.67	False
451192	5/18/2026	001-251-4370-00000	Janitorial Supplies- City-Wide	1.34	False
451192	5/18/2026	412-100-4370-00000	Janitorial Supplies- City-Wide	26.67	False
451192	5/18/2026	001-350-4370-00000	Janitorial Supplies- City-Wide	76.02	False
451192	5/18/2026	413-120-4370-00000	Janitorial Supplies- City-Wide	2.67	False
451192	5/18/2026	001-470-4370-00000	Janitorial Supplies- City-Wide	300.07	False
451192	5/18/2026	419-120-4370-00000	Janitorial Supplies- City-Wide	2.67	False
451192	5/18/2026	420-115-4370-00000	Janitorial Supplies- City-Wide	2.66	False
451192	5/18/2026	001-240-4370-00000	Janitorial Supplies- City-Wide	26.67	False
451192	5/18/2026	506-506-4370-00000	Janitorial Supplies- City-Wide	26.68	False
451192	5/18/2026	001-471-4370-00000	Janitorial Supplies- City-Wide	26.67	False
451192	5/18/2026	001-313-4370-00000	Janitorial Supplies- City-Wide	2.67	False
451192	5/18/2026	001-111-4370-00000	Janitorial Supplies- City-Wide	2.67	False
451192	5/18/2026	001-480-4370-00000	Janitorial Supplies- City-Wide	66.68	False
451193	5/18/2026	161-485-4409-24BAL	BA Program Forgivable Loan: Program Operator Services - Mar 2026	5,100.00	False
451193	5/18/2026	161-485-4409-24BAL	BA Program Forgivable Loan: Program Operator Services - Apr 2026	10,837.50	False
451194	5/18/2026	001-480-4230-00000	Alarm services - Pool (late fee)	1.76	False
451194	5/18/2026	001-480-4230-00000	Alarm services - Pool	211.50	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451194	5/18/2026	001-480-4230-00000	Alarm services - Pool (late fee)	1.76	False
451196	5/18/2026	412-100-4225-00000	FY26 Trash & Bin Service - 04/01/26-04/30/26	1,931.16	False
451197	5/18/2026	419-000-2110-00000	Refund Check 008999-005, 120 BREAKWATER DR	80.02	False
451198	5/18/2026	001-000-3221-00000	REFUND: 06/20-06/24/26 Stay (Conf# 12888)	6.82	False
451198	5/18/2026	412-000-3570-00000	REFUND: 06/20-06/24/26 Stay (Conf# 12888)	68.18	False
451199	5/18/2026	419-000-2110-00000	Refund Check 108057-000, 311 W ESSEX ST	150.32	False
451200	5/18/2026	001-000-3221-00000	REFUND: 05/27-06/03/26 Stay (Conf# 13537)	5.00	False
451200	5/18/2026	412-000-3570-00000	REFUND: 05/27-06/03/26 Stay (Conf# 13537)	50.00	False
451201	5/18/2026	419-120-4415-00000	Online & IVR Utlity payment processing - Apr 2026	1,447.40	False
451201	5/18/2026	413-120-4415-00000	Online & IVR Utlity payment processing - Apr 2026	1,447.40	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - AR26-03 MURAL - Mar2026	455.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - CITY CNCL MTG - Mar2026	3,752.20	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - BLDG PERM APP - Mar2026	260.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - GP-APR 2025 - Mar 2026	1,105.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - PLAN INQ - Mar 2026	4,043.75	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - SIGN PERM APP - Mar2026	65.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - BUS LIC APP - Mar 2026	780.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - ZOA25-01 SIGN - Mar2026	195.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - PLAN COM MTGS - Mar2026	2,592.20	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - MISC - Mar 2026	6,017.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - PRE APP REV - Mar 2026	1,015.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - UP24-09 THOM DUPX - Mar	1,527.50	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - PLANNING DIR - Mar 2026	1,300.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - BIWEEKLY MTG - Mar 2026	1,480.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - 14 PLX SCHAU - Mar 2026	65.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - AR25-02 RDWD DTWN - Mar	4,355.00	False
451202	5/18/2026	001-313-4409-00000	FY26 Planning services - Task Order 22 - TRANSIT RCTA - Mar2026	130.00	False
451203	5/18/2026	001-240-4380-00000	4/9-4/10/26 - Chico, CA - K9 Re Cert - meals	136.00	False
451204	5/18/2026	001-480-4530-00000	Lifeguard Certifications - R. Cole, B. Lovaas	120.00	False
451205	5/18/2026	419-000-2110-00000	Refund Check 111903-000, 140 WHALEVIEW CT	157.77	False
451206	5/18/2026	001-480-4310-00000	pool office supplies - folder etc	2.92	False
451206	5/18/2026	412-113-4310-00000	File folder for protests	0.55	False
451206	5/18/2026	001-113-4310-00000	File folder for protests	4.39	False
451206	5/18/2026	419-113-4310-00000	File folder for protests	4.39	False
451206	5/18/2026	413-113-4310-00000	File folder for protests	4.39	False
451206	5/18/2026	506-506-4390-00000	calendar	25.63	False
451207	5/18/2026	901-470-4799-TLCL2	Lithomosiac TCC Art Elements: small basket & pebble mosaics - #3	111,441.50	False
451207	5/18/2026	901-470-4799-TLCL2	Lithomosiac TCC Art Elements: small basket & pebble mosaics -#4	40,000.00	False
451208	5/18/2026	001-364-4390-10025	asphalt patches	582.74	False
451208	5/18/2026	001-240-4380-00000	Concrete - PD K9 Kennel	750.71	False
451209	5/18/2026	419-000-2110-00000	Refund Check 113544-000, 1355 PARKWAY DR	78.25	False
451210	5/18/2026	413-000-2110-00000	Refund Check 113003-000, 201 BREAKWATER DR	23.15	False
451210	5/18/2026	419-000-2110-00000	Refund Check 113003-000, 201 BREAKWATER DR	8.25	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451211	5/18/2026	001-240-4450-00000	Copier maintenance/use - 05/01/26-05/30/26	203.28	False
451212	5/18/2026	001-240-4380-2020S	TOWN&COUNTRY: Sgt Kostya Medicine	37.02	False
451212	5/18/2026	001-230-4391-00000	AMAZON: Watercan harness.	47.62	False
451212	5/18/2026	161-485-4409-24BAL	GODADDY: Business assistance website	61.98	False
451212	5/18/2026	420-115-4450-00000	NEXTDNS: DNS Filter.	19.90	False
451212	5/18/2026	001-240-4390-AB109	STARLINK: Internet	165.00	False
451212	5/18/2026	001-240-4390-00000	CRYSTAL SPRINGS: water for office	60.00	False
451212	5/18/2026	001-112-4450-00000	GODADDY: VPart.com domain name.	23.19	False
451212	5/18/2026	001-112-4434-00000	DOTERRA: "Forest bathing" supplies.	232.69	False
451212	5/18/2026	001-112-4409-00000	GODADDY: VPart website	275.88	False
451212	5/18/2026	001-230-4390-2020S	HOME DEPOT: Tools	486.04	False
451212	5/18/2026	001-240-4380-00000	SP GEORGIA K9: Sgt Murtaugh Equipment	145.32	False
451212	5/18/2026	001-230-4390-00000	THE STUDIO: Patches for uniforms.	396.01	False
451212	5/18/2026	001-111-4409-CLTDV	GODADDY: Tolowa cultural tribe website.	63.27	False
451212	5/18/2026	420-115-4450-00000	SPAM HERO: Spam filter.	10.00	False
451212	5/18/2026	001-240-4530-00000	LLRMI.COM: online training - crime scene	150.00	False
451212	5/18/2026	001-112-4450-00000	GODADDY: Downtown plan website.	53.73	False
451212	5/18/2026	001-240-4240-00000	MAILROOM: postage	8.60	False
451212	5/18/2026	001-230-4390-00000	HOME DEPOT: Supplies.	10.80	False
451212	5/18/2026	001-230-4409-00000	FIRE PROGRAMS: Fire archive.	260.00	False
451212	5/18/2026	001-112-4434-00000	GODADDY: Kamome website.	143.01	False
451212	5/18/2026	001-240-4240-00000	MAILROOM: postage	7.42	False
451212	5/18/2026	001-230-4530-2020S	SIESRRA RESCUE: Swiftwater Rescue Tech Training Fire Captains	1,240.00	False
451212	5/18/2026	001-240-4393-0VIPS	PH: 4/20-4/24/26-Las Vegas Nat'l MUPS Conf - G. Bobertz Lodging	506.82	False
451212	5/18/2026	001-240-4240-00000	MAILROOM: Shipping for gun	161.45	False
451212	5/18/2026	001-230-4530-2020S	THE FIRE GROUND: Driver Operator 1B course	1,700.00	False
451212	5/18/2026	001-240-4380-00000	CHEVRON: 4/9-4/10/26 -Chico, CA-K9 Re Cert- C. Sperling- fuel	113.42	False
451212	5/18/2026	001-240-4393-0VIPS	PH:4/20-4/24/26-Las Vegas Nat'l MUPS Conf - C. Schneider Lodging	506.82	False
451212	5/18/2026	001-230-4530-00000	SIESRRA RESCUE: Swiftwater Rescue Tech Training Fire Captains	620.00	False
451212	5/18/2026	001-240-4380-00000	EUREKA WAY: 4/9-4/10/26 -Chico, CA-K9 Re Cert- C. Sperling- fuel	90.23	False
451212	5/18/2026	001-240-4390-2020S	AED SUPERSTORE: Bag valves for CPR (partial order)	156.96	False
451212	5/18/2026	001-240-4380-00000	OXFORD: 4/9-4/10/26 - Chico,CA-K9 Re Cert- C. Sperling- lodging	123.99	False
451212	5/18/2026	001-240-4320-00000	EMBLEMAUTHORITY: uniform patches	672.00	False
451212	5/18/2026	001-230-4530-00000	BBK LAW: CA public records at training.	50.00	False
451212	5/18/2026	001-112-4450-00000	GODADDY: ED website	137.37	False
451212	5/18/2026	001-240-4380-00000	RAY ALLEN MANUF: Sgt Murtaugh Equipment	477.85	False
451212	5/18/2026	420-115-4312-00000	BUSINESS APPLE: iCloud	33.64	False
451212	5/18/2026	001-240-4530-00000	HYATT: 2/1-2/7/26 - Sac - Code Enf - Mod 1 - R. Griffin - Hotel	847.17	False
451212	5/18/2026	001-240-4530-00000	CNOA: Drug endangered children class.	125.00	False
451212	5/18/2026	001-240-4390-00000	HOMEDEPOT: mounts/bins for armory	69.13	False
451212	5/18/2026	001-240-4393-0VIPS	FOX VALLEY TECH: Fees	11.49	False
451212	5/18/2026	001-240-4320-00000	COPQUEST: ID patches for uniforms.	563.38	False
451212	5/18/2026	001-240-4320-00000	COPQUEST: duty belt	98.24	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451212	5/18/2026	001-240-4240-00000	MAILROOM:: Postage.	15.47	False
451212	5/18/2026	001-240-4320-00000	GALLS: Academy uniforms.	205.78	False
451212	5/18/2026	001-240-4240-00000	UPSP: Postage	78.00	False
451212	5/18/2026	001-240-4393-0VIPS	FOX VALLEY TECH: Registration for national missing person conf.	403.29	False
451212	5/18/2026	001-240-4390-00000	INSOUTHRNORSIGN: sign for office	335.50	False
451212	5/18/2026	001-240-4391-00000	SPTIGERTOUGH: Seat covers	503.37	False
451212	5/18/2026	001-240-4320-00000	UNDERARMOUR: Boots.	329.08	False
451212	5/18/2026	001-240-4390-AB109	STARLINK: internet	165.00	False
451212	5/18/2026	001-240-4390-00000	CRYSTAL SPRINGS: water for office	60.00	False
451212	5/18/2026	001-240-4240-00000	MAILROOM: Postage	3.82	False
451212	5/18/2026	001-240-4390-00000	SIRCHIE: Evidence supplies.	171.71	False
451212	5/18/2026	001-240-4530-00000	HYATT: 3/1-3/7/26 - Sac- Code Enf T- Mod 2 - R. Griffin - hotel	115.53	False
451212	5/18/2026	001-240-4530-00000	LOVES ETC:2/1-2/7/26 -Sac - Code Enf - Mod 1 - R. Griffin - fuel	236.11	False
451212	5/18/2026	001-240-4320-00000	COWELL TACTICAL: Outer Carrier vest for Maxwell	670.00	False
451213	5/18/2026	001-000-1510-00000	Postage reset	5,000.00	False
451214	5/18/2026	001-000-3221-00000	REFUND: 5/7-5/13/26 Stay (Conf# 12842)	35.64	False
451214	5/18/2026	412-000-3570-00000	REFUND: 5/7-5/13/26 Stay (Conf# 12842)	356.36	False
451215	5/18/2026	001-480-4530-00000	5/22-5/25/26 Starguard Instr Training - Alameda, CA -meals (ADV)	262.20	False
451216	5/18/2026	419-000-2110-00000	Refund Check 109816-000, 1021 J ST #6	250.00	False
451218	5/19/2026	610-000-2186-00000	Plan # 306752	7.55	False
451218	5/19/2026	610-000-2186-00000	Plan # 306752	36.01	False
451219	5/26/2026	610-000-2170-00000	PR Batch 00002.05.2026 Child Support-CA	88.84	False
451220	5/26/2026	610-000-2184-00000	PR Batch 00002.05.2026 CCEA Monthly Dues	85.00	False
451220	5/26/2026	610-000-2184-00000	PR Batch 00022.05.2026 CCEA Monthly Dues	5.00	False
451221	5/26/2026	610-000-2181-00000	PR Batch 00022.05.2026 CCPOA Dues	550.00	False
451222	5/26/2026	610-000-2178-00000	Plan # 300878	1,975.00	False
451222	5/26/2026	610-000-2178-00000	Plan # 300878	335.00	False
451222	5/26/2026	610-000-2186-00000	Plan # 306752	1,076.99	False
451222	5/26/2026	610-000-2186-00000	Plan # 306752	68.39	False
451222	5/26/2026	610-000-2186-00000	Plan # 306752	225.84	False
451222	5/26/2026	610-000-2178-00000	Plan # 300878	362.93	False
451222	5/26/2026	610-000-2186-00000	Plan # 306752	326.19	False
451222	5/26/2026	610-000-2178-00000	Plan # 300878	300.19	False
451223	5/26/2026	610-000-2182-00000	PR Batch 00022.05.2026 PORAC RMT 4850	50.00	False
451223	5/26/2026	610-000-2182-00000	PR Batch 00022.05.2026 PORAC RMT	500.00	False
451224	5/26/2026	001-240-4230-00000	FY26 DOJ/CLETS Line: 04/01-04/30/26	31.38	False
451225	5/26/2026	159-485-4799-23ASP	Front Street CDBG labor compliance - PROG PMT 9	3,000.00	False
451226	5/26/2026	001-240-4310-00000	mesh desk organizers (x3)	134.10	False
451226	5/26/2026	001-112-4390-00000	Forest Moon Festival Stickers	8.65	False
451226	5/26/2026	001-112-4390-00000	FMF- Prizes	33.32	False
451226	5/26/2026	001-112-4390-00000	FMF- Prizes	38.94	False
451227	5/26/2026	001-112-4220-00000	Propane - 240 H St - 1/15/26-2/17/26 - Acct# 1031563	11.00	False
451228	5/26/2026	001-240-4393-0VIPS	4/20-4/24/26-Las Vegas Nat'l MUPS Conf - Meals, parking	97.45	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451229	5/26/2026	419-371-4550-00000	Michael McAleenan Distribution Cert Request	285.00	False
451230	5/26/2026	420-115-4530-00000	Linkedln Learning Renewal (5 licenses)	1,865.00	False
451231	5/26/2026	412-100-4230-00000	TV and WiFi Services FY26 - 05/01/26-05/31/26	1,884.52	False
451232	5/26/2026	001-250-4410-01405	Legal Services: April 2026	1,169.80	False
451232	5/26/2026	001-250-4410-00000	Legal Services: April 2026	93.30	False
451232	5/26/2026	001-250-4410-120WC	Legal Services: April 2026	62.20	False
451232	5/26/2026	001-250-4410-01430	Legal Services: April 2026	2,054.80	False
451232	5/26/2026	001-250-4410-00200	Legal Services: April 2026	155.50	False
451233	5/26/2026	001-000-3221-00000	REFUND: 06/04-06/09/26 Stay (Conf# 13455)	34.64	False
451233	5/26/2026	412-000-3570-00000	REFUND: 06/04-06/09/26 Stay (Conf# 13455)	346.36	False
451234	5/26/2026	419-371-4390-00000	Emergency repair of Amador Tank Transfer Switch	9,010.70	False
451235	5/26/2026	001-313-4560-00000	Planning Commission Stipend - Jan-Mar 2026	75.00	False
451236	5/26/2026	001-000-3221-00000	REEFUND for stay on 06/04-06/06/26 Conf # 12917	12.64	False
451236	5/26/2026	412-000-3570-00000	REEFUND for stay on 06/04-06/06/26 Conf # 12917	126.36	False
451237	5/26/2026	001-112-4409-00000	Farmer's market funding- portable bathrooms shared cost	780.00	False
451238	5/26/2026	413-353-4390-00000	Safety/PW Supplies	74.06	False
451238	5/26/2026	001-364-4390-10025	Safety/PW Supplies	74.07	False
451238	5/26/2026	506-506-4390-00000	Safety/PW Supplies	74.06	False
451238	5/26/2026	508-508-4390-00000	Safety/PW Supplies	74.02	False
451238	5/26/2026	419-371-4390-00000	Safety/PW Supplies	74.06	False
451238	5/26/2026	001-470-4390-00000	Safety/PW Supplies	74.03	False
451239	5/26/2026	001-240-4530-00000	4/26-5/2/26 - Sacramento FTO Training - meals	43.00	False
451240	5/26/2026	419-371-4409-00000	FY26 Cross Connection Services - Task Order 15	1,417.00	False
451240	5/26/2026	001-364-4409-00000	Industrial SWPPP Services - Task order 14	708.50	False
451240	5/26/2026	001-364-4409-00000	Task Order 14 - Stormwater Regulatory Services	1,090.00	False
451240	5/26/2026	419-371-4409-00000	FY26 Water Regulatory Services - Task Order 12	4,905.00	False
451240	5/26/2026	413-352-4409-00000	FY26 Sewer Regulatory Services - Task Order 13	3,379.00	False
451241	5/26/2026	420-115-4230-00000	707-197-0009 monthly phone - 05/02/26-06/01/26	790.00	False
451242	5/26/2026	508-508-4390-00000	brass quick disc switch, eyelets, diodes	84.86	False
451243	5/26/2026	001-364-4450-2020S	Measure S Fall 2025 Striping Project - 9/24/25-3/31/26	38,885.50	False
451243	5/26/2026	001-364-4450-10025	Measure S Fall 2025 Striping Project- 9/24/25-3/31/26	2,950.54	False
451244	5/26/2026	001-470-4390-00000	food scale, cleaner	77.57	False
451245	5/26/2026	001-240-4530-00000	4/26-5/2/26 - Sacramento - Code Enf Training - Mod 3: meals	64.50	False
451246	5/26/2026	001-470-4390-00000	pressure vac breaker assembly	863.84	False
451246	5/26/2026	419-371-4390-00000	gate valves	644.13	False
451246	5/26/2026	419-371-4390-00000	water PVC parts	369.41	False
451246	5/26/2026	919-371-4799-37118	water PVC parts	819.99	False
451247	5/26/2026	413-000-1202-00000	sludge processing	2,355.80	False
451247	5/26/2026	413-000-1202-00000	sludge processing	2,085.89	False
451248	5/26/2026	419-371-4390-00000	FY26 Rock to fill excavations - reissue ck 451178 - partial	1,000.23	False
451248	5/26/2026	413-353-4390-00000	FY26 Rock to fill excavations- reissue ck 451178 - partial	214.33	False
451248	5/26/2026	001-364-4390-10025	FY26 Rock to fill excavations- reissue ck 451178 - partial	214.34	False
451249	5/26/2026	001-313-4560-00000	Planning Commission Stipend - Jan-Mar 2026	75.00	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451251	5/26/2026	508-508-4390-00000	late charge	21.26	False
451252	5/26/2026	412-000-3570-00000	REFUND for stay on 05/21/26. Conf# 14001	46.36	False
451252	5/26/2026	001-000-3221-00000	REFUND for stay on 05/21/26. Conf# 14001	4.64	False
451253	5/26/2026	001-000-3221-00000	REFUND for stay on 06/06-06/08/26. Conf# 14150	12.64	False
451253	5/26/2026	412-000-3570-00000	REFUND for stay on 06/06-06/08/26. Conf# 14150	126.36	False
451254	5/26/2026	001-313-4560-00000	Planning Commission Stipend - Mar 2026	25.00	False
451255	5/26/2026	413-351-4320-00000	FY 26 Laundry services/uniforms	18.56	False
451255	5/26/2026	001-480-4370-00000	FY 26 Laundry services- pool mats	72.48	False
451255	5/26/2026	001-480-4370-00000	FY 26 Laundry services- pool mats	72.48	False
451256	5/26/2026	508-508-4450-00000	Mitchell 1 for diag of vehicles -- reissue ck 450732	3,060.00	False
451257	5/26/2026	419-000-2110-00000	Refund Check 110877-000, 455 WILA JEAN RD - - reissue ck 450456	234.26	False
451258	5/26/2026	412-000-3570-00000	REFUND for stay on 05/22-05/25/26. Conf#13606	169.36	False
451258	5/26/2026	001-000-3221-00000	REFUND for stay on 05/22-05/25/26. Conf#13606	16.94	False
451259	5/26/2026	001-364-4450-10025	Light service work for West Condor	1,320.00	False
451260	5/26/2026	001-230-4391-00000	Software update, calibration, VCI Programming for #5100	525.00	False
451261	5/26/2026	508-508-4390-00000	reman head	720.79	False
451261	5/26/2026	508-508-4390-00000	sensor	124.76	False
451261	5/26/2026	508-508-4390-00000	head bolt st - for Ford Ranger	64.07	False
451261	5/26/2026	508-508-4390-00000	filter	99.54	False
451262	5/26/2026	419-371-4390-00000	Large meter box to replace broken concrete box	1,259.89	False
451263	5/26/2026	001-480-4370-00000	janitorial supplies	258.63	False
451264	5/26/2026	001-313-4560-00000	Planning Commission Stipend - Jan-Mar 2026	75.00	False
451265	5/26/2026	413-352-4450-00000	Alarm Monitoring	798.00	False
451265	5/26/2026	413-352-4450-00000	Late fee	6.65	False
451266	5/26/2026	412-000-3570-00000	REFUND for stay on 05/13-05/16/26 conf# 14121	50.00	False
451266	5/26/2026	001-000-3221-00000	REFUND for stay on 05/13-05/16/26 conf# 14121	5.00	False
451267	5/26/2026	412-000-3570-00000	REFUND: 05/22-05/25/26 Stay (Conf# 14177)	8.45	False
451267	5/26/2026	001-000-3221-00000	REFUND: 05/22-05/25/26 Stay (Conf# 14177)	0.85	False
451268	5/26/2026	156-364-4799-0CGBP	Mulitple cleanups for California Clean grant - 01/01-06/30/26	628.68	False
451269	5/26/2026	419-371-4550-00000	D2 Certification - Jason Dubois	80.00	False
451270	5/26/2026	420-115-4310-00000	CH -Office Supplies	4.61	False
451270	5/26/2026	001-113-4310-00000	CH -Office Supplies	0.70	False
451270	5/26/2026	412-111-4310-00000	CH -Office Supplies	0.12	False
451270	5/26/2026	412-130-4310-00000	CH -Office Supplies	0.11	False
451270	5/26/2026	412-113-4310-00000	CH -Office Supplies	0.09	False
451270	5/26/2026	419-114-4310-00000	CH -Office Supplies	0.32	False
451270	5/26/2026	001-111-4310-00000	CH -Office Supplies	0.74	False
451270	5/26/2026	001-313-4310-00000	CH -Office Supplies	0.98	False
451270	5/26/2026	001-251-4310-00000	CH -Office Supplies	3.72	False
451270	5/26/2026	412-120-4310-00000	CH -Office Supplies	0.64	False
451270	5/26/2026	413-120-4310-00000	CH -Office Supplies	4.11	False
451270	5/26/2026	419-111-4310-00000	CH -Office Supplies	0.76	False
451270	5/26/2026	001-114-4310-00000	CH -Office Supplies	1.65	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451270	5/26/2026	001-250-4310-00000	CH -Office Supplies	0.84	False
451270	5/26/2026	419-120-4310-00000	CH -Office Supplies	4.08	False
451270	5/26/2026	001-470-4310-00000	CH -Office Supplies	0.27	False
451270	5/26/2026	413-111-4310-00000	CH -Office Supplies	0.70	False
451270	5/26/2026	413-113-4310-00000	CH -Office Supplies	0.70	False
451270	5/26/2026	412-100-4310-00000	CH -Office Supplies	0.58	False
451270	5/26/2026	001-364-4310-00000	CH -Office Supplies	0.77	False
451270	5/26/2026	413-353-4310-00000	CH -Office Supplies	0.76	False
451270	5/26/2026	001-120-4310-00000	CH -Office Supplies	3.81	False
451270	5/26/2026	413-114-4310-00000	CH -Office Supplies	0.27	False
451270	5/26/2026	413-357-4310-00000	CH -Office Supplies	1.34	False
451270	5/26/2026	001-471-4310-00000	CH -Office Supplies	0.53	False
451270	5/26/2026	413-130-4310-00000	CH -Office Supplies	0.41	False
451270	5/26/2026	001-112-4310-00000	CH -Office Supplies	1.57	False
451270	5/26/2026	001-130-4310-00000	CH -Office Supplies	0.80	False
451270	5/26/2026	412-114-4310-00000	CH -Office Supplies	0.06	False
451270	5/26/2026	419-371-4310-00000	CH -Office Supplies	2.46	False
451270	5/26/2026	419-113-4310-00000	CH -Office Supplies	0.71	False
451270	5/26/2026	001-480-4310-00000	CH -Office Supplies	0.58	False
451270	5/26/2026	413-352-4310-00000	CH -Office Supplies	0.34	False
451270	5/26/2026	419-130-4310-00000	CH -Office Supplies	0.41	False
451270	5/26/2026	001-350-4310-00000	CH -Office Supplies	1.92	False
451270	5/26/2026	001-364-4390-10025	large format copies	5.95	False
451270	5/26/2026	001-120-4400-00000	CREDIT: Charge to City Account by mistake	-28.15	False
451270	5/26/2026	001-470-4390-00000	packing tape	13.78	False
451270	5/26/2026	001-112-4390-00000	Forest moon signage	97.43	False
451270	5/26/2026	419-120-4310-00000	CREDIT balance from prior payment	-4.88	False
451270	5/26/2026	419-111-4310-00000	Calendars - reissue chk #444439	10.86	False
451270	5/26/2026	413-120-4310-00000	CREDIT balance from prior payment	-4.87	False
451270	5/26/2026	001-111-4310-00000	Calendars - reissue chk #444439	10.86	False
451270	5/26/2026	413-111-4310-00000	Calendars - reissue chk #444439	10.86	False
451270	5/26/2026	001-120-4400-00000	Charge to City Account by mistake - to receive credit	28.15	False
451270	5/26/2026	001-112-4434-00000	Kamome festival - place mats, menus	45.23	False
451270	5/26/2026	001-112-4434-00000	Kamome festival - coloring pages	61.16	False
451271	5/26/2026	413-353-4390-00000	propane - acct# 1409-050261	10.49	False
451271	5/26/2026	001-364-4390-10025	propane - acct# 1409-050261	10.50	False
451271	5/26/2026	508-508-4390-00000	propane - acct# 1409-050261	10.49	False
451271	5/26/2026	419-371-4390-00000	propane - acct# 1409-050261	10.49	False
451272	5/26/2026	419-371-4390-00000	Replacement of Meadowbrook Booster Pump	8,256.37	False
451273	5/26/2026	001-364-4390-10025	Various A/C patches for roads	1,319.78	False
451274	5/26/2026	413-352-4340-00000	FY26 Sodium Hypochlorite	12,104.47	False
451274	5/26/2026	419-371-4340-00000	FY26 Sodium Hypochlorite	3,821.23	False
451274	5/26/2026	001-480-4340-00000	FY26 Sodium Hypochlorite	1,133.38	False

Check Numbe	Check Date	Acct 1	Description	Amount	Selected For Void
451275	5/26/2026	413-357-4530-00000	ASHLAND FUEL: 4/10-4/11/26 - Auburn-Long-Pickup WWTP part-fuel	100.00	False
451275	5/26/2026	001-112-4450-00000	LATER.COM - instragram posting annual subscription fee	250.00	False
451275	5/26/2026	413-357-4530-00000	CHEVRON: 4/10-4/11/26 - Auburn- Long- Pickup WWTP part -fuel	157.71	False
451275	5/26/2026	413-357-4530-00000	HOLIDAY INN:4/10-4/11/26 - Auburn-Long-Pickup WWTP part -lodging	285.39	False
451275	5/26/2026	413-357-4530-00000	CHEVRON: 4/10-4/11/26 - Auburn -Long- Pickup WWTP part-fuel	167.01	False
451275	5/26/2026	419-371-4530-00000	CHEVRON: 3/23-3/24/26 - Redding Backflow Test- McAleenan -fuel	31.18	False
451275	5/26/2026	419-371-4530-00000	CHEVRON: 3/23-3/24/26 - Redding Backflow Test- McAleenan - fuel	33.63	False
451275	5/26/2026	001-112-4450-00000	LATER.COM - instragram posting annual subscription fee - REFUND	-250.00	False
451276	5/26/2026	419-372-4390-41028	3 days of leak detection and report in BOV	4,650.00	False
451276	5/26/2026	419-371-4450-00000	13 days of leak detection and report	16,650.00	False
451277	5/26/2026	001-350-4311-00000	Boot Reimbursement	154.99	False
451278	5/26/2026	001-313-4560-00000	Planning Commission Stipend - Jan-Mar 2026	75.00	False
451279	5/26/2026	001-364-4320-04320	Protective Footwear Reimbursement - FY26	166.09	False
451280	5/27/2026	610-000-2186-00000	PR Batch 00333.05.2026 EE Contrib PTS 457 Plan	40.82	False
451280	5/27/2026	610-000-2186-00000	PR Batch 00333.05.2026 ER Contrib PTS 457 Plan	8.56	False
				492,349.68	

AP
05-16-26 to 05-29-26 Housing

REVIEWED
kkozak , 6/2/2026, 3:17:01 PM

User: kbates@crescentcity.org
Printed: 6/2/2026 1:13:24 PM

Check Date	Check Number	Description	Amount	Selected For Void
5/26/2026	451270	Dividers - reissue chk #444439	5.93	False
5/18/2026	451192	Janitorial Supplies- City-Wide	26.67	False
5/18/2026	451152	Misc Office Supplies - seat cushion	32.46	False
5/18/2026	451173	707-464-2692 HA Fax Line - 04/30/26-05/29/26	173.95	False
5/18/2026	451195	Annual services FY 25/26	234.16	False
5/26/2026	451250	Misc Office Supplies - window envelopes,	1,052.50	False
5/26/2026	451250	Misc Office Supplies - Multiple forms	1,614.42	False
			3,140.09	

CITY OF CRESCENT CITY

MAYOR ISAIAH WRIGHT | MAYOR PRO TEM CANDACE TINKLER
COUNCIL MEMBER RAY ALTMAN | COUNCIL MEMBER JASON GREENOUGH
COUNCIL MEMBER STEVE SHAMBLIN

MINUTES
REGULAR MEETING OF THE
CITY COUNCIL OF THE CITY OF CRESCENT CITY
FLYNN CENTER BOARD CHAMBERS
981 H STREET
CRESCENT CITY, CA 95531

MONDAY **JUNE 1, 2026** **6:00 P.M.**

CLOSED SESSION

Call to order Mayor Wright called closed session to order at 5:30 p.m.

Roll Call Council Members present: Council Member Ray Altman, Council Member Jason Greenough, Council Member Steve Shamblin, Mayor Pro Tem Candace Tinkler, and Mayor Isaiah Wright
Staff members present: City Manager Eric Wier, City Attorney Martha Rice, and City Clerk/Administrative Analyst Robin Altman

- **Conference with Real Property Negotiator (Gov. Code § 54956.8):** Conference with Real Property Negotiator (Gov. Code § 54956.8): Property: APN 120 280-017; Negotiator: Eric Wier

There were no comments from the public on closed session items.

OPEN SESSION

Call to order Mayor Wright called the meeting to order at 6:00 p.m.

Roll call Council Members present: Council Member Ray Altman, Council Member Jason Greenough, Council Member Steve Shamblin, Mayor Pro Tem Candace Tinkler, and Mayor Isaiah Wright
Staff members present: City Manager Eric Wier, City Attorney Martha Rice, City Clerk/Administrative Analyst Robin Altman, IT/GIS Technician Taylor Patch, Finance Director Linda Leaver, Economic Development and Grants Manager Bridget Lacey (via Zoom), Recreation Director and Events Coordinator Kelly Feola, Public Works Director Dave Yeager, Police Lieutenant Anthony Lopez, and Police Chief Richard Griffin

Pledge of Allegiance led by Mayor Wright

REPORT OUT OF CLOSED SESSION

City Attorney Rice reported no actions were taken on closed session items.

CEREMONIAL ITEMS

- **National Night Out Proclamation**

Mayor Wright read the proclamation aloud and presented it to Police Chief Griffin. Chief Griffin detailed the event's activities.

REPORTS AND PRESENTATIONS - None

PUBLIC COMMENT PERIOD

The following members of the public addressed the Council:

Linda Sutter: spoke in opposition to the rate increase as most of the residents of Crescent City receive financial assistance.

Mario Westphal: opposes the rate increase. Stated that the first year will see a 105% rise in the rates. Urges to explore other rate structures and budgetary adjustments.

Sam Strait: Stating that by raising rates, people will move away to an affordable community. The population will be replaced by newcomers who will sign up for housing assistance.

Donna Westfall: spoke in opposition to the rate increase and spoke about allegations of past corruption. She then handed the City Clerk a stack of protests.

Doug Dye: spoke about his public comments from the last meeting and that he clarified said that he opposed "high density apartments" and on page 3 that it was not the Downtown Revitalization Project, but the "Redwood Downtown Project".

David Olkowski: spoke in opposition to the rate increases and how it will affect his income. Stated the water rate increase will affect those who grow food.

Janelle Kovald: spoke in support of the rate increase as deferred maintenance needs to be funded.

Roy Thompson: spoke in opposition to the rate increase as it is unaffordable.

Steve Lyon: spoke in opposition to the rate increases and how they escalate so much so fast.

Jody Mangum: spoke in opposition to the rate increase and that the rates need to be in line with the necessary maintenance and repairs. Asked how much has the City received from developers for hookup fees.

Eric Port: spoke in support of the increase as it will end up costing more down the line.

David Garcia: spoke about a proposal to increase TOT with the increased revenues going to the sewer and water funds.

Rev. Rebecca Dyke: spoke on behalf of the Housing Team for True North Organizing Network. They are in support of the rate increase structure in the interest of long-term health of the infrastructure.

Gloria Carone: spoke about the apartments that are planned to be built across from the Catholic Church and that on street parking is already difficult in the area.

Philip Dyke: spoke in support of the rate increases as deferred maintenance is necessary for the WWTP.

Naomi Pena: stated that capacity increase should be considered in the design for improvements because the population is increasing.

Margaret Ann Sargent: stated that the Prop 218 process is unconstitutional.

Cate Classen: spoke about the City receiving grants; creating a community for those who live here not to focus on tourism.

David Wells: stated he does not believe that the Council knew about the apartments being built off of E St. Spoke in opposition on the rate increases and how it will negatively affect those on social security.

CONSENT CALENDAR

1. **Warrant Claims List**
   - *Recommendation: Receive and file the warrant claims list for the period May 2, 2026 through May 15, 2026.*

2. **Council Minutes**
   - *Recommendation: Approve and adopt the May 18, 2026 minutes of the City Council of the City of Crescent City.*

3. **Payroll Report**
   - *Recommendation: Receive and file the biweekly payroll reports for the period ending May 16, 2026 paid May 22, 2026.*

4. **List of Proposed Local Street Projects for the Road Repair and Accountability Act of 2017 (SB1)**
   - *Recommendation: Approve and adopt Resolution No. 2026-38, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY ADOPTING A LIST OF PROJECTS FOR FISCAL YEAR 2026-27 TO BE FUNDED BY SB1: THE ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017*

5. **Consolidation of the General Municipal Election for 2026**
   - *Recommendation: Approve and adopt Resolution No. 2026-39, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY DECLARING THE DATE OF THE GENERAL MUNICIPAL ELECTION OF 2026, SPECIFYING THE OFFICES TO BE FILLED, AND REQUESTING CONSOLIDATION OF THE NOVEMBER 3, 2026 CRESCENT CITY GENERAL MUNICIPAL ELECTION WITH THE NOVEMBER 3, 2026 STATEWIDE GENERAL ELECTION*

6. **Budget Amendment for Additional HCD HOME Grant Funds for the Valhalla Townhomes Project**
   - *Recommendation: Approve and adopt Resolution No. 2026-40, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY*

7. **Budget Amendment for HAP Revenue/Expense**
   - *Recommendation: Approve and adopt Resolution No. 2026-41, A RESOLUTION OF THE BOARD OF DIRECTORS OF THE CRESCENT CITY HOUSING AUTHORITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY*

Sam Strait: spoke about the number of items on the consent calendar and that it doesn't allow for the public to obtain more information.

Linda Sutter: stated that it is her understanding that things on the consent calendar were items that were discussed at a previous meeting that the public was not able to attend.

Margaret Ann Sargent: stated that 3rd and J Street needs to be investigated and that it is a swamp area.

Mayor Pro Tem Tinkler clarified that all of the staff reports on the consent calendar are available to the public at the same time they are made available to the Council.

On a motion by Mayor Pro Tem Tinkler, seconded by Council Member Greenough, and carried unanimously on a 5-0 polled vote, the City Council of the City of Crescent City adopted the consent calendar consisting of items 1-7 as presented.

PUBLIC HEARING

8. Public Hearing: Sewer Rate Increases

- *Recommendation: Open public hearing*
- *Hear staff report*
- *Technical questions from the Council*
- *Receive public comment and written protests*
- *Close public hearing*
- *Receive preliminary count of water rate protests from the City Clerk*
    1. *If the preliminary count meets the threshold for a successful protest: continue the item to the June 15th meeting to allow time for the City Clerk to validate and tabulate the submitted protests*
    2. *If the preliminary count does not meet the threshold for a successful protest: Waive full reading, read by title only and adopt Ordinance No. 863, AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING CHAPTER 13.30, SEWER CHARGES, OF TITLE 13, PUBLIC SERVICES, OF THE CRESCENT CITY MUNICIPAL CODE*

Mayor Wright opened the public hearing at 7:03 p.m.

City Manager Wier reported on the history of the sewer fund and that it's in a structural deficit. It is at a point that we need to raise rates and to do so significantly to have a sustainable Sewer Fund. He explained that the Sewer Fund revenue can only pay for sewer items – it does not go towards the General Fund or the Water Fund. Council Member Greenough asked for the website to be pulled up to show where the information has been placed for public viewing. The website was broadcast for the public to show where the information is contained. Council Member Greenough also asked where the audited numbers can be found from last year; City Manager Wier pulled up the Finance Department page on the website and showed the public where the information is found. Council Member Greenough stated to the public that the City is not being deceptive and that as soon as information is obtained, it is pushed out to the public. City Manager Wier stated that anyone can make an appointment with him to answer any questions. Chris Fisher of Wildan Financial went over the Sewer Rate Study in detail. Council Member Greenough asked if the rate increase includes a "rainy day" fund. Chris Fisher explained the capital reserve that is $1 million. It is not a rainy day fund, it is strictly for capital reserves. City Manager Wier stated the 180-day operating reserve sounds like a lot, however, it is the cash on hand as of June 30th. A debt service payment is due a month later for $1.7million. City Manager Wier asked Mr. Fisher if these rates are consistent with other utilities; Mr. Fisher stated that flexibility was already looked

at – the sacrificing would be the reducing of the reserves at the risk of not having the funds needed. The rate structure is consistent.

Donna Westfall: spoke about alleged corruption back in 2007 and would like to see the City receive restitution instead of raising rates.

Sam Strait: There has been a lot of money spent on Beachfront Park and other projects, however, there is no other solution other than to raise rates.

Linda Sutter: stated that for the consent calendar, the public would like to speak on several of the items. Spoke of her concern that if the rates are raised, people will lose their homes.

Shawn Michael Hubert: stated that a few years ago, a flat sewage rate was discussed as well as a water usage rate, however it never happened.

David Sedwick: stated that the costs being implemented slowly was not the Council's fault, it was the electorate that put forward a referendum that stopped the rate increase. Spoke in favor of the rate increase.

Naomi Pena: would like someone to follow up on a better way to raise money for the WWTP.

Cate Classen: spoke about her Facebook page and that information is desired as well as effective communication from the public to the City. Would like to see grant funding for the WWTP instead of rate increases.

Jody Mangum: NGOs get a lot of governmental money. Spoke about the cost of operations by Jacobs Engineering.

Anonymous: stated that we are the poorest County in the state of California and Eureka is not a comparable city. Would like the rates reworked.

David Olkowski: all of the other towns used as comparable cities have a better economy than us. Spoke about the water main break on Elk Valley and applauded City staff for fixing it so fast. Spoke in opposition to the rate increase.

Roy Thompson: asked the Council to take into consideration how this will impact the community.

Dave Wells: asked if low income rate payers get the same bill or do they get a cut rate? Asked if a 5-year projection was presented to the Council about all of the low income housing to be built.

Margaret Ann Sargent: asked the Council to reflect on what has happened in the past and to look into behavioral health. Stated giving a list of only APNs is unconstitutional.

Council Member Greenough asked City Manager Wier to address the large apartment complex and sewer rates. City Manager Wier explained that they will pay their fair share. He further explained using a consumption based rate is challenging. Mayor Pro Tem Tinkler stated that we are bound by law changing the rates based on specific individuals; City Manager Wier stated that the City's Sewer Fund cannot subsidize any category of people. Council Member Greenough explained that there is not one Council Member who is not listening to the public. They are public servants that have a duty to take care of this piece of infrastructure. Mayor Pro Tem Tinkler stated she is concerned for small businesses and that they may not be prepared for this rate increase. Would like the Council and community work together to have some help the small businesses with a business plan.

Mayor Wright asked the public if there were any protests that needed to be turned in, there were no additional protests submitted.

Mayor Wright closed the public hearing at: 8:37 p.m.

City Clerk Altman reported to the Council that the number of protests required for a successful protest was 1,799. The Clerk received 19 protests this evening before the close of the public hearing. The total raw number of sewer protests received by the Clerk was 1,444. The protest failed.

On a motion by Council Member Greenough, seconded by Council Member Shamblin, and carried on a 4-1 polled vote with Council Member Altman voting no, the City Council of the City Of Crescent City waived full reading, read by title only and adopted Ordinance No. 863, AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING CHAPTER 13.30, SEWER CHARGES, OF TITLE 13, PUBLIC SERVICES, OF THE CRESCENT CITY MUNICIPAL CODE

Mayor Wright called for a recess at 8:40 p.m.; meeting called back to order at 8:50 p.m.

9. Public Hearing: Water Rate Increases

- *Recommendation: Open public hearing*
- *Hear staff report*
- *Technical questions from the Council*
- *Receive public comment and written protests*
- *Close public hearing*
- *Receive preliminary count of water rate protests from the City Clerk*
    1. *If the preliminary count meets the threshold for a successful protest: continue the item to the June 15th meeting to allow time for the City Clerk to validate and tabulate the submitted protests*
    2. *If the preliminary count does not meet the threshold for a successful protest: Waive full reading, read by title only and adopt Ordinance No. 862, AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING CHAPTER 13.16, WATER SERVICE RATES, OF TITLE 13, PUBLIC SERVICES, OF THE CRESCENT CITY MUNICIPAL CODE*

Mayor Wright opened the public hearing at 8:51 p.m.

City Manager Wier went over the infrastructure for the City's water supply. Samantha Ryan of RCAC went over the Water Rate Study in detail. Council Member Shamblin asked about the 6" meter that it only effected a few customers; Ms. Ryan stated there are 4 6" meters.

Sam Strait: this is a huge failure of government and how much money has been spent on other projects and that the ratepayer has to pay more because the infrastructure needs it.

Mike Rickter: asked for the Council to reconsider the percentage that will be raised initially; asked for a 50% increase instead of 105%.

Anonymous: agreed with the previous comment and asked for a lower percentage on the initial rate and that this increase will cause people to lose their homes.

David Olkowski: asked for a shorter amount of time for a water shutoff for a vacation. Encouraged the Council to promote septic systems.

Margaret Ann Sargent: this puts landowners at risk.

Mayor Pro Tem Tinkler asked City Manager Wier to explain that different rate structures have been discussed; Mr. Wier went into detail about how the rate structure works. Council Member Greenough explained that the reason for the rate increase is to have the funds in the event that something breaks.

Mayor Wright asked the public if there were any protests that needed to be turned in, there were no additional protests submitted.

Mayor Wright closed the public hearing at 9:33 p.m.

City Clerk Altman reported to the Council that the number of protests needed for a successful protest is 2,021. The Clerk received a total of 20 protests at the meeting before the close of the public hearing making the total number of protests received 1,449. The protest has failed.

On a motion by Council Member Greenough, seconded by Mayor Pro Tem Council Member Tinkler, and carried on a 4-1 polled vote with Council Member Altman voting no, the City Council of the City of Crescent City waived full reading, read by title only and adopted Ordinance No. 862, AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING CHAPTER 13.16, WATER SERVICE RATES, OF TITLE 13, PUBLIC SERVICES, OF THE CRESCENT CITY MUNICIPAL CODE.

CONTINUING BUSINESS

10. Military Equipment Use Policy Adoption

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- *Waive full reading, read by title only and adopt Ordinance No. 864, AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY CONFIRMING APPROVAL OF THE CCPD MILITARY EQUIPMENT USE POLICY*

City Attorney Rice went over the ordinance and process required to pass.

Anonymous: asked if there was a list of the equipment received by CCPD; Chief Griffin explained the list and where it can be found. Stated nothing changed since the last meeting.

On a motion by Council Member Greenough, seconded by Mayor Pro Tem Tinkler, and carried unanimously on a 5-0 polled vote, the City Council of the City of Crescent City waived full reading, read by title only and adopted Ordinance No. 864, AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY CONFIRMING APPROVAL OF THE CCPD MILITARY EQUIPMENT USE POLICY.

11. Adoption of 2025 California Building Standards Codes

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- *Waive full reading, read by title only and adopt Ordinance No. 865, AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING TITLE 15, BUILDINGS AND CONSTRUCTION, OF THE CRESCENT CITY MUNICIPAL CODE TO ADOPT THE 2025 CALIFORNIA BUILDING STANDARDS CODES*

City Attorney Rice stated that new building codes recently went into effect and needed to be applied. If we don't have the most current code, citations cannot be issued. This will allow for better enforcement.

Margaret Ann Sargent: stated it should be reviewed how this impacts property owners.

Anonymous: AB 548 makes violations of State Housing Law a crime and people need their due process rights.

Hoyt Mitchell: asked where are the numbers that show this is required.

On a motion by Council Member Greenough, seconded by Council Member Shamblin, and carried unanimously on a 5-0 polled vote, the City Council of the City of Crescent City waived full reading, read by title only and adopted Ordinance No. 865, AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING TITLE 15, BUILDINGS AND CONSTRUCTION, OF THE CRESCENT CITY MUNICIPAL CODE TO ADOPT THE 2025 CALIFORNIA BUILDING STANDARDS CODES.

NEW BUSINESS

12. Retired Annuitant Building Inspector/Code Enforcement Official – Extra Help Position

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- *Approve and adopt Resolution No. 2026-42, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY APPOINTING ROBERT MINGES TO THE RETIRED ANNUITANT POSITION OF BUILDING INSPECTOR/CODE ENFORCEMENT OFFICIAL – EXTRA HELP*

City Attorney Rice went over the need to have Dan Minges continue as an extra-help position of Building Inspector/Code Enforcement Official to help with the transition with the recently hired Building Inspector/Code Enforcement Official. Council Member Shamblin asked if this was included in the budget presented at the Workshop; it was.

Hoyt Mitchell: stated there are a lot of businesses that will not pass the Fire Code.

Anonymous: doesn't seem like the legislature should be taking part of this; says it should only be the Mayor.

On a motion by Mayor Wright, seconded by Mayor Pro Tem Tinkler, and carried unanimously on a 5-0 polled vote, the City Council of the City of Crescent City approved and adopted Resolution No. 2026-42, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY APPOINTING ROBERT MINGES TO THE RETIRED ANNUITANT POSITION OF BUILDING INSPECTOR/CODE ENFORCEMENT OFFICIAL – EXTRA HELP.

13. Technical Assistance Planning Grant Amendment No. 2 for the Design of WWTP Rotating Biological Contactor (RBC) Capital Upgrade, Membrane Bioreactor (MBR) Replacement and Biosolids/Digester Optimization Project

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*

- *Approve and adopt Resolution No. 2026-43, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY APPROVING AMENDMENT NO. 2 WITH THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD FOR THE PURPOSE OF PROJECT NUMBER C-06-8558-110 AND RBC CAPITAL UPGRADE, MBR MEMBRANE REPLACEMENT, AND BIOSOLIDS/DIGESTER OPTIMIZATION PROJECT*
- *Approve and adopt Resolution No. 2026-44, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY*

City Manager Wier went over the need for this upgrade to the WWTP.

Margaret Ann Sargent: asked why grants weren't sought after first.

On a motion by Council Member Greenough, seconded by Council Member Shamblin, and carried unanimously on a 5-0 polled vote, the City Council of the City of Crescent City approved and adopted Resolution No. 2026-43, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY APPROVING AMENDMENT NO. 2 WITH THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD FOR THE PURPOSE OF PROJECT NUMBER C-06-8558-110 AND RBC CAPITAL UPGRADE, MBR MEMBRANE REPLACEMENT, AND BIOSOLIDS/DIGESTER OPTIMIZATION PROJECT and approved and adopted Resolution No. 2026-44, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY.

14. Ranney Collector Generator and Particle Meter Repairs

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- *Approve and adopt Resolution No. 2026-45, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY*

Public Works Director Yeager went over the project in detail.

There were no comments from the public.

On a motion by Mayor Wright, seconded by Mayor Pro Tem Tinkler, and carried unanimously 0on a 5-0 polled vote, the City Council of the City of Crescent City approved and adopted Resolution No. 2026-45, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY.

Due to the meeting running late, Mayor Pro Tem Tinkler asked to continue the last item until the next meeting; the Council was in consensus.

15. Ad Hoc Committee Appointments

- *Recommendation: Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- *Mayor to appoint and Council to confirm the appointment of two Council Members to each of the following ad hoc committees: the Lighthouse Cove RV Park ad hoc*

committee, the Fred Endert Municipal Pool ad hoc committee, Planning Fees ad hoc committee, and Beachfront Park ad hoc committee

CITY COUNCIL ITEMS

- **Reports, Concerns, Referrals, Council travel and training reports – None**
- **Legislative Matters – None**
- **City Manager Report and City Council Directives – Forest Moon was a success.**

ADJOURNMENT

There being no further business to come before the Council, Mayor Wright adjourned the meeting at 10:08 p.m. to the regular meeting of the City Council of the City of Crescent City on Monday, June 15, 2026 at 6:00 p.m. at the Flynn Center Board Chambers, 981 H Street, Crescent City, CA 95531.

ATTEST:

_____
Robin Altman, City Clerk/Administrative Analyst

City of Crescent City

Biweekly Payroll Report

Payroll Ending 05/30/2026

Pay Date 06/05/2026

Check Numbers: 111863-111873 (Plus Direct Deposits)

Home Dept.	Regular Pay	Overtime	Gross Pay	Employees	Notes
City Council (110)	4,209.85	-	4,209.85	5	
Administration (111)	24,276.15	802.16	25,078.31	6	
Finance (120)	16,584.44	461.56	17,046.00	6	
City Attorney (130)	5,982.41	-	5,982.41	1	
Fire (230)	18,423.67	2,060.26	20,483.93	5	
Police (240)	45,997.15	12,187.90	58,185.05	15	
Planning (313)	712.95	-	712.95	1	
Public Works (350)	67,831.10	3,379.25	71,210.35	27	
Recreation (450)	5,604.80	-	5,604.80	2	
Swimming Pool (480)	17,582.46	632.23	18,214.69	19	
Housing (490)	12,247.14	-	12,247.14	4	
	219,452.12	19,523.36	238,975.48	91	

Payroll summarized above according to employees' home departments. Actual costs of employees are charged to department / fund where work was performed.

CITY COUNCIL AGENDA REPORT

TO: MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL

FROM: ERIC WIER, CITY MANAGER

BY: LINDA LEAVER, FINANCE DIRECTOR

DATE: JUNE 15, 2026

SUBJECT: BUDGET-TO-ACTUAL SUMMARY AS OF APRIL 30, 2026

RECOMMENDATION

- Receive and file budget-to-actual summary of the City's major operating funds for Fiscal Year 2025-26 as of April 30, 2026

BACKGROUND

In order to provide timely information to the City Council and to the public, the City's Finance Department has prepared the attached budget-to-actual reports. These reports provide a summary as of April 30, 2026 of the fiscal year-to-date revenues and expenses of the City's major operating funds: General Fund, Housing Authority Fund, RV Park Fund, Sewer Fund and Water Fund.

ITEM ANALYSIS

As of April 30, 2026, we are 83% through the fiscal year, with 17% of the year remaining. It can be helpful to review the percentage of budgeted revenues received and budgeted expenses incurred to date and to compare those percentages to the calendar date. However, revenues and expenditures are not always even throughout the year for many reasons. Many revenues are not received evenly throughout the year (particularly tax revenues and grant reimbursements), most expenses are not recorded until the invoice is received in the following month, and budgets may include large projects that have not yet been completed.

This report provides a brief summary of the actual revenues and expenditures for the year to date; additional information is provided in the budget-to-actual reports attached. Note the budget numbers in this report include the midyear budget updates that were recently approved.

- **General Fund**

In the General Fund, 69% of budgeted revenues have been received with 31% remaining, and 62% of budgeted expenditures have been incurred with 38% remaining. Many General Fund revenues are received unevenly through the year (sales tax and Measure S are received two months in arrears, TOT and interest are received quarterly, and various property taxes are received in December, January, April, and May).

- **Housing Authority Fund**

The Housing Authority is funded by monthly disbursements from the federal government, and the monthly housing assistance payments make up the majority of the expenditure budget. Therefore, actual revenues and expenditures usually align closely with how far we are through the fiscal year. At this point, 83% of budgeted revenues have been received with 17% remaining, and 82% of budgeted expenditures have been incurred with 18% remaining.

- **RV Park Fund**

The RV Park earns revenue primarily from space rents, which are highly seasonal. As of April 30, 96% of the budgeted revenue has been received with 4% remaining. At this point in the year, 69% of budgeted operating expenses have been incurred with 31% of the budget remaining.

- **Sewer Fund**

The Sewer Fund earns revenue primarily from monthly charges to the users of its services. As of April 30, the primary revenue source (monthly service) is on track with 83% of the budget received with 17% remaining. Of total revenues, 75% of the overall budget has been received with 25% remaining. Of the budgeted operating expenses, 64% has been spent with 36% remaining.

- **Water Fund**

The Water Fund earns revenue primarily from monthly charges for service. As of April 30, the primary revenue source (monthly service) is close to budget with 82% of the budget received and 18% remaining. Of total revenues, 81% of the overall budget has been received with 19% remaining. Of the budgeted operating expenses, 68% has been spent with 32% remaining.

- **Summary**

The following table summarizes the actual revenues and expenses for the City's five major operating funds, not including encumbrances:

	Budget	Actual	Remaining $	Remaining %
General Fund				
Revenue	11,110,877	7,677,810	3,433,067	31%
Expense	12,773,948	7,950,483	4,823,465	38%
Net	(1,663,071)	(272,673)		
Housing Fund				
Revenue	4,844,948	4,036,715	808,233	17%
Expense	4,901,864	4,011,246	890,618	18%
Net	(56,916)	25,469		
RV Park Fund				
Revenue	627,786	603,573	24,213	4%
Expense	667,937	458,595	209,342	31%
Capital Grant Revenue	835,000	15,458	819,542	98%
Capital Expense	1,026,457	27,360	999,097	97%
Net	(231,608)	133,076		
Sewer Fund				
Revenue	6,023,322	4,512,491	1,510,831	25%
Operating Expense	5,627,102	3,619,304	2,007,798	36%
Debt Service	1,697,663	1,697,663	-	0%
Transfer to Sewer CIP Fund	75,000	75,000	-	0%
Transfer to Equipment ISF	16,000	10,271	5,729	36%
Net	(1,392,443)	(889,746)		
Water Fund				
Revenue	3,283,720	2,656,775	626,945	19%
Operating Expense	3,340,291	2,280,232	1,060,059	32%
Transfer to Water CIP Fund	400,000	400,000	-	0%
Transfer to Equipment ISF	12,150	7,593	4,557	38%
Net	(468,721)	(31,050)		

- **Long-term Liabilities**

The City's long-term liability balances are included in the table below. Net Pension Liability, Net OPEB Liability, Compensated Absences, and Subscriptions Payable are updated annually during the audit process. The Sewer Fund loan balance is updated when payments are made each July. This table does not include interfund balances (amounts owed from one City fund to another).

Liability	Fund	Balance	As of
Net Pension Liability	Multiple	13,260,280	6/30/2025
Net OPEB Liability	Multiple	670,734	6/30/2025
Compensated Absences	Multiple	994,317	6/30/2025
Subscriptions Payable	IT	95,794	6/30/2025
SRF Loan	Sewer	25,464,940	7/31/2025

FISCAL ANALYSIS

Preparation of this report is informational in nature and has no direct fiscal impact.

STRATEGIC PLAN ASSESSMENT

This report is consistent with Strategic Plan Goal 3 to “Maintain responsible fiscal management and accountability.”

ATTACHMENTS

1. Monthly budget-to-actual report as of April 30, 2026

City of Crescent City
FY 2025-26 General Fund Operating Report
As of April 30, 2026

% of Year Remaining: 17%

					Before Encumbrances			Including Encumbrances	
Description	**Notes**	**Budget**	**Actual**	**%**	**Remaining**	**%**	**Open Purchase Orders**	**Remaining**	**%**
Non-Departmental Revenue									
Tax Revenue	1	7,679,300	5,209,249	68%	2,470,051	32%	-	2,470,051	32%
Licenses & Permits		303,035	307,138	101%	(4,103)	-1%	-	(4,103)	-1%
Interest Income	2	180,000	125,127	70%	54,873	30%	-	54,873	30%
Lease-Rental Income		38,600	34,403	89%	4,197	11%	-	4,197	11%
Other Revenue		11,150	25,685	230%	(14,535)	-130%	-	(14,535)	-130%
Departmental Revenue									
City Manager		92,377	1,000	1%	91,377	99%	-	91,377	99%
Econ Dev / Comm Supp / Grants		141,250	68,318	48%	72,932	52%	-	72,932	52%
Human Resources		23,795	30	0%	23,765	100%	-	23,765	100%
Finance		-	400		(400)		-	(400)	
Fire	3	1,455,112	786,436	54%	668,676	46%	-	668,676	46%
Police	4	513,109	610,231	119%	(97,122)	-19%	-	(97,122)	-19%
Code Enforcement		100,000	-	0%	100,000	100%	-	100,000	100%
Building Inspection		93,050	159,769	172%	(66,719)	-72%	-	(66,719)	-72%
Planning		11,100	6,712	60%	4,388	40%	-	4,388	40%
Streets		221,494	136,741	62%	84,753	38%	-	84,753	38%
Parks		5,000	14,555	291%	(9,555)	-191%	-	(9,555)	-191%
Cultural Center		16,200	4,176	26%	12,024	74%	-	12,024	74%
Swimming Pool		226,305	187,838	83%	38,467	17%	-	38,467	17%
Revenue Total		**11,110,877**	**7,677,810**	**69%**	**3,433,067**	**31%**	**-**	**3,433,067**	**31%**
Non-Departmental Expenditures		210,131	53,937	26%	156,194	74%	63,395	92,799	44%
City Council		31,541	22,345	71%	9,196	29%	-	9,196	29%
City Manager		185,313	93,199	50%	92,114	50%	-	92,114	50%
Econ Dev / Comm Supp / Grants		594,980	346,387	58%	248,593	42%	15,945	232,647	39%
City Clerk		56,564	44,158	78%	12,406	22%	-	12,406	22%
Human Resources		128,526	95,043	74%	33,483	26%	9,040	24,443	19%
Finance		409,015	289,570	71%	119,445	29%	-	119,445	29%
City Attorney		113,065	73,513	65%	39,552	35%	-	39,552	35%
Fire		2,272,413	1,446,336	64%	826,077	36%	91,139	734,938	32%
Police		4,031,638	2,675,322	66%	1,356,316	34%	290,975	1,065,341	26%

					Before Encumbrances			Including Encumbrances	
Description	**Notes**	**Budget**	**Actual**	**%**	**Remaining**	**%**	**Open Purchase Orders**	**Remaining**	**%**
Code Enforcement		193,065	146,875	76%	46,190	24%	-	46,190	24%
Building Inspection		177,418	82,605	47%	94,813	53%	36,391	58,421	33%
Planning		340,894	238,772	70%	102,122	30%	67,120	35,003	10%
Public Works Admin		169,039	122,521	72%	46,518	28%	281	46,237	27%
Streets		1,725,847	676,739	39%	1,049,108	61%	121,597	927,511	54%
Parks		689,839	462,060	67%	227,779	33%	36,457	191,322	28%
Cultural Center		188,827	94,615	50%	94,212	50%	44,419	49,793	26%
Swimming Pool		1,255,833	986,485	79%	269,348	21%	53,211	216,136	17%
Expenditure Total		**12,773,948**	**7,950,483**	**62%**	**4,823,465**	**38%**	**829,970**	**3,993,495**	**31%**
Net Operating Results		**(1,663,071)**	**(272,673)**						

Notes:

1 Sales tax and Measure S are received 2 months in arrears, so this report reflects revenue earned July - January.
TOT is due quarterly, one month after the quarter ends, so this report reflects revenue earned in the first two quarters.
(TOT is also highly seasonal.)
Property taxes and in-lieu are received Dec, Jan, Apr, and May.

2 Interest is received quarterly, the month after each quarter ends, so this report reflects interest earned in the first two quarters.

3 The majority of Fire revenue is for services to the Crescent Fire Protection District which is billed quarterly in arrears. Second quarter was billed in Feb. It also includes revenue of $273k for prior year services that will be included in FY26 revenue.

4 Includes $137k grant revenues for FY25 not received in time for FY25 that will be included in FY26 revenue.

City of Crescent City
FY 2025-26 Housing Fund Operating Report
As of April 30, 2026

% of Year Remaining: 17%

Description	Notes	Budget	Actual	%	Before Encumbrances Remaining	Before Encumbrances %	Open Purchase Orders	Including Encumbrances Remaining	Including Encumbrances %
Revenue									
Housing Choice Voucher Program									
Housing Assistance Revenue		3,878,959	3,190,481	82%	688,478	18%	-	688,478	18%
Admin Revenue		580,528	495,703	85%	84,825	15%	-	84,825	15%
Emergency Housing Voucher Program									
Housing Assistance Revenue		20,715	40,092	194%	(19,377)	-94%	-	(19,377)	-94%
Admin Revenue		3,904	8,366	214%	(4,462)	-114%	-	(4,462)	-114%
Service Fees		-	(77)		77				
Mainstream Voucher Program									
Housing Assistance Revenue		273,600	228,464	84%	45,136	16%	-	45,136	16%
Admin Revenue		47,628	39,391	83%	8,237	17%	-	8,237	17%
Other Revenues									
Interest		6,000	640	11%	5,360	89%	-	5,360	89%
Port In - Admin			925		(925)		-	(925)	
Port In - HAP		15,614	12,890		2,724		-	2,724	
Recovery - Admin		9,000	3,573	40%	5,427	60%	-	5,427	60%
Recovery - HAP		9,000	3,573	40%	5,427	60%	-	5,427	60%
HAP Owner Reimbursement		-	10,436		(10,436)		-	(10,436)	
Other Revenue		-	2,258		(2,258)		-	(2,258)	
Revenue Total		**4,844,948**	**4,036,715**	**83%**	**808,233**	**17%**	**-**	**808,156**	**17%**
Expenditures by Department									
City Manager		5,914	3,431	58%	2,483	42%	-	2,483	42%
Human Resources		7,409	4,378	59%	3,031	41%	171	2,860	39%
Finance		12,173	11,613	95%	560	5%	-	560	5%
City Attorney		2,679	668	25%	2,011	75%	-	2,011	75%
Housing Authority									
Housing Assistance Payments		4,188,888	3,468,406	83%	720,482	17%	-	720,482	17%
Admin		684,801	522,749	76%	162,052	24%	18,189	143,863	21%
Expenditure Total		**4,901,864**	**4,011,246**	**82%**	**890,618**	**18%**	**18,360**	**872,258**	**18%**
Net Operating Results		**(56,916)**	**25,469**						

City of Crescent City
FY 2025-26 RV Park Fund Operating Report
As of April 30, 2026

% of Year Remaining: 17%

Description	Notes	Budget	Actual	%	Before Encumbrances Remaining	Before Encumbrances %	Open Purchase Orders	Including Encumbrances Remaining	Including Encumbrances %
Revenue									
Interest		10,000	22,627	226%	(12,627)	-126%	-	(12,627)	#####
Misc Sales		14,500	15,350	106%	(850)	-6%	-	(850)	-6%
Rental Revenue	1	603,286	565,596	94%	37,690	6%	-	37,690	6%
Other Revenue		-	-		-		-	-	
Revenue Total		**627,786**	**603,573**	**96%**	**24,213**	**4%**	**-**	**24,213**	**4%**
Operating Expenses by Department									
RV Park		559,580	380,764	68%	178,816	32%	29,770	149,046	27%
City Council		3,726	2,782	75%	944	25%	-	944	25%
City Manager		14,565	10,387	71%	4,178	29%	-	4,178	29%
City Clerk		6,662	5,362	80%	1,300	20%	-	1,300	20%
Human Resources		3,518	2,096	60%	1,422	40%	82	1,340	38%
Finance		66,682	47,887	72%	18,795	28%	92	18,703	28%
City Attorney		13,204	9,317	71%	3,887	29%	-	3,887	29%
Expense Total		**667,937**	**458,595**	**69%**	**209,342**	**31%**	**29,944**	**179,398**	**27%**
Net Operating Results		**(40,151)**	**144,978**						
Capital Grant Revenue		835,000	15,458	2%	819,542	98%	-	819,542	98%
Capital Expenses		1,026,457	27,360	3%	999,097	97%	51,224	947,874	92%
Net		**(231,608)**	**133,076**						

Notes:

1 Rental revenue is highly seasonal.

City of Crescent City
FY 2025-26 Sewer Fund Operating Report
As of April 30, 2026

% of Year Remaining: 17%

					Before Encumbrances			Including Encumbrances	
Description	**Notes**	**Budget**	**Actual**	**%**	**Remaining**	**%**	**Open Purchase Orders**	**Remaining**	**%**
Sewer Fund Revenue									
Interest	1	113,900	(1,953)	-2%	115,853	102%	-	115,853	102%
Other Income	2	32,300	53,189	165%	(20,889)	-65%	-	(20,889)	-65%
Charges for Services		4,578,264	3,813,955	83%	764,309	17%	-	764,309	17%
Sewer Connections	3	300,000	307,445	102%	(7,445)	-2%	-	(7,445)	-2%
Sewer Lab	4	134,400	70,860	53%	63,540	47%	-	63,540	47%
County Collection System (CSA)	5	285,524	57,481	20%	228,043	80%	-	228,043	80%
Grant Revenue		384,860	17,282	4%	367,578	96%	-	367,578	96%
Transfers In		194,074	194,074	100%	-	0%	-	-	0%
Other Reimbursement		-	157		(157)		-	(157)	
Sewer Fund Revenue Total		**6,023,322**	**4,512,491**	**75%**	**1,510,831**	**25%**	**-**	**1,510,831**	**25%**
Sewer Fund Expenses by Dept									
City Council		40,433	29,436	73%	10,997	27%	-	10,997	27%
City Manager		142,822	104,146	73%	38,676	27%	-	38,676	27%
Econ Dev / Grants		69,533	50,143	72%	19,390	28%	30	19,360	28%
City Clerk		79,906	62,637	78%	17,269	22%	-	17,269	22%
Human Resources		23,262	15,602	67%	7,660	33%	368	7,292	31%
Finance		495,870	364,627	74%	131,243	26%	6,646	124,597	25%
City Attorney		80,366	53,752	67%	26,614	33%	-	26,614	33%
Sewer Lab		525,519	382,930	73%	142,589	27%	44,223	98,366	19%
WWTP Operations		3,049,909	1,852,728	61%	1,197,181	39%	634,519	562,662	18%
City Collection System		549,202	385,205	70%	163,997	30%	22,012	141,985	26%
County Collection System (CSA)		287,733	123,778	43%	163,955	57%	37,467	126,488	44%
WWTP Major Maintenance		282,547	194,319	69%	88,228	31%	249	87,979	31%
Operating Expense Total		5,627,102	3,619,304	64%	2,007,798	36%	745,514	1,262,284	22%
Debt Service	6	1,697,663	1,697,663	100%	-	0%	-	-	0%
Transfers to Sewer CIP Fund		75,000	75,000	100%	-	0%	-	-	0%
Transfers to Equipment ISF		16,000	10,271	64%	5,729	36%	-	5,729	36%
Sewer Fund Expense Total		**7,415,765**	**5,402,237**	**73%**	**2,013,527**	**27%**	**745,514**	**1,268,013**	**17%**
Net Sewer Fund Results		**(1,392,443)**	**(889,746)**						

					Before Encumbrances			Including Encumbrances	
Description	**Notes**	**Budget**	**Actual**	**%**	**Remaining**	**%**	**Open Purchase Orders**	**Remaining**	**%**
Sewer CIP Revenues									
Transfers in (from Sewer Fund)		75,000	75,000	100%	-	0%	-	-	0%
Interest	1	50,000	28,980	58%	21,020	42%	-	21,020	42%
Sewer CIP Revenue Total		**125,000**	**103,980**	**83%**	**21,020**	**17%**	**-**	**21,020**	**17%**
Sewer CIP Expenses									
RBC Gear Box		62,000	-	0%	62,000	100%	-	62,000	100%
Boiler		228,000	-	0%	228,000	100%	-	228,000	100%
Influent Gate		35,000	-	0%	35,000	100%	15,000	20,000	57%
Primary Influent Valves		120,000	-	0%	120,000	100%	-	120,000	100%
Influent Screens		200,000	150,438	75%	49,562	25%	1,333	48,230	24%
Sewer Mains		225,000	-	0%	225,000	100%	-	225,000	100%
Transfers out (to Sewer Fund)		194,074	194,074	100%	-	0%	-	-	0%
Sewer CIP Expense Total		**1,064,074**	**344,512**	**32%**	**719,562**	**68%**	**16,333**	**703,230**	**66%**
Net Sewer CIP Results		**(939,074)**	**(240,532)**						

NOTES:

1 Interest is received quarterly, so this report reflects interest earned in the first quarter (Jul - Sep, received in Oct).
2 NSF and late fees for all utility accounts are recorded here and then allocated between water and sewer at the end of the year.
3 Actual results depend on the number of connections requested.
4 Internal lab services are billed quarterly, so this report includes the first 2 quarters; external customers are billed the month following service.
5 Amounts depend on actual expenditures, will be billed to County.
6 Annual debt service payment is made in July.

City of Crescent City
FY 2025-26 Water Fund Operating Report
As of April 30, 2026

% of Year Remaining: 17%

Description	Notes	Budget	Actual	%	Before Encumbrances Remaining	Before Encumbrances %	Open Purchase Orders	Including Encumbrances Remaining	Including Encumbrances %
Water Fund Revenue									
Interest		90,745	37,483	41%	53,262	59%	-	53,262	59%
Rental Revenue	1	24,648	22,590	92%	2,058	8%	-	2,058	8%
Other Revenue	2	32,300	6,900	21%	25,400	79%	-	25,400	79%
Charges for Services		2,695,897	2,198,980	82%	496,917	18%	-	496,917	18%
Water Connections	3	155,000	144,837	93%	10,163	7%	-	10,163	7%
Water CSD Admin Revenue		3,300	1,630	49%	1,670	51%	-	1,670	51%
Other Reimbursements		71,630	34,155	48%	37,475	52%	-	37,475	52%
Transfers In		210,200	210,200	100%	-	0%	-	-	0%
Water Fund Revenue Total		**3,283,720**	**2,656,775**	**81%**	**626,945**	**19%**	**-**	**626,945**	**19%**
Water Fund Expenses by Department									
City Council		39,866	28,930	73%	10,936	27%	-	10,936	27%
City Manager		142,933	102,717	72%	40,216	28%	-	40,216	28%
Econ Dev / Grants		62,941	44,660	71%	18,281	29%	30	18,251	29%
City Clerk		73,198	57,073	78%	16,125	22%	-	16,125	22%
Human Resources		24,941	16,314	65%	8,627	35%	431	8,197	33%
Finance		475,632	349,148	73%	126,484	27%	6,646	119,838	25%
City Attorney		69,132	48,550	70%	20,582	30%	-	20,582	30%
Water Operations		2,302,279	1,552,069	67%	750,210	33%	117,636	632,573	27%
Water CSD		149,369	80,771	54%	68,598	46%	46,603	21,995	15%
Operating Expense Total		3,340,291	2,280,232	68%	1,060,059	32%	171,346	888,713	27%
Transfers to Water CIP Fund		400,000	400,000	100%	-	0%	-	-	0%
Transfers to Equipment ISF		12,150	7,593	62%	4,557	38%	-	4,557	38%
Water Fund Expense Total		**3,752,441**	**2,687,825**	**72%**	**1,064,616**	**28%**	**171,346**	**893,270**	**24%**
Net Water Fund Results		**(468,721)**	**(31,050)**						

					Before Encumbrances			Including Encumbrances	
Description	**Notes**	**Budget**	**Actual**	**%**	**Remaining**	**%**	**Open Purchase Orders**	**Remaining**	**%**
Water CIP Revenues									
Transfers in (from Water Fund)		400,000	400,000	100%	-	0%	-	-	0%
Interest		50,000	39,770	80%	10,230	20%	-	10,230	20%
Grant Revenue		695,122	-	0%	695,122	100%	-	695,122	100%
Water CIP Revenue Total		**1,145,122**	**439,770**	**38%**	**705,352**	**62%**	**-**	**705,352**	**62%**
Water CIP Expenses									
Ground Source Well		649,122	1,213	0%	647,909	100%	280,226	367,683	57%
Surge Protection		814,743	68,472	8%	746,271	92%	642,528	103,743	13%
Automatic Meter Reading		606,844	216,770	36%	390,074	64%	45,349	344,725	57%
Water Mains		195,107	60,250	31%	134,857	69%	-	134,857	69%
Transfers out (to Water Fund)		210,200	210,200	100%	-	0%	-	-	0%
Water CIP Expense Total		**2,476,016**	**556,906**	**22%**	**1,919,110**	**78%**	**968,103**	**951,008**	**38%**
Net Water CIP Results		**(1,330,894)**	**(117,136)**						

NOTES:

1 Cell tower rent.

2 NSF and late fees are allocated at the end of the year.

3 Includes both the connection fee and charges for equipment/materials related to the connection. Actual results depend on connections requested.

CITY COUNCIL AGENDA REPORT

TO: MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL

FROM: ERIC WIER, CITY MANAGER

BY: DAVID YEAGER, PUBLIC WORKS DIRECTOR
JAMES QUEEN, ENGINEERING PROJECT MANAGER

DATE: JUNE 15, 2026

SUBJECT: NOTICE OF COMPLETION FOR THE CRESCENT CITY HIGHWAY SAFETY IMPORVEMENT PROJECT (HSIP) PEDESTRIAN IMPORVEMENT PROJECT

RECOMMENDATION

- Authorize the City Manager to sign and file a Notice of Completion for the Crescent City HSIP pedestrian improvement project (Contract #2025-1079)

BACKGROUND

On September 8, 2020, the City Council authorized staff to apply for grant funding through the California Department of Transportation for a Local Road Safety Plan (LRSP). On September 10, 2021, the City was awarded $36,000 in grant funding and contributed an additional $4,000 in matching funds for the project. The City entered into a professional services agreement (PSA) with PlanWest Partners, Inc. on August 2, 2021 to assist the City with developing the LRSP and an application for a Highway Safety Improvement Program (HSIP) grant.

From 2021 to 2022, the City developed a Local Road Safety Plan that utilized the best available data related to roadway incidents within the City limits. This included analysis of data from the Statewide Integrated Traffic Records System (SWITRS) and the Transportation Injury Mapping System (TIMS). In addition, comments were collected from the public through an interactive map about potential safety areas. Through this process, the LRSP identified pedestrians as one of the plan's six challenge/emphasis areas. For this reason, pedestrian crossing was identified as a systemic countermeasure that could be implemented citywide and an application for grant funding was submitted through the California Department of Transportation to fund pedestrian improvements through the Local Highway Safety Improvement Program (HSIP).

On December 13, 2023, the City was notified of the publication of the Project List for the HSIP and pending award of $225,000 (plus a $25,000 City match) for the requested grant. On May 15, 2024, the City received the allocation letter for the requested grant.

On June 3, 2024, the City Council approved and adopted Resolution No. 2024-43 authorizing the City Manager to execute an agreement with Caltrans for the acceptance of this HSIP grant.

The advertisement requesting bids for a Pedestrian Improvement project occurred on March 25, 2025. Four responsive bids were received on April 24th, 2025, with Tidewater Contractors being the low bidder.

By September 29, 2025, Tidewater Contractors was substantially complete with their bid work including minor changes to the scope. Change Order #2 was created to adjust the quantities completed. The result of this adjustment was a Change Order resulting in a credit to the City.

In discussions with Local Assistance for Caltrans, it was requested that a revised scope of work be submitted, as the work completed to date did not match the scope of work submitted in the 2022 grant request. Caltrans wished to review and approve this revised scope of work to verify that the completed work follows the original grant proposal which received the grant award.

The 2022 grant request contained five plan sheets, of which four of the sheets had already been completed through other contracts, or would be completed under future contracts and agreements - specifically the Battery Point Housing project and the upcoming Beachfront Park Phase 1C project. The infill of any sidewalk sections was also determined to be an ineligible grant expense. For example, the grant does not cover placing sidewalks between existing concrete paths and new ADA corners to create ADA accessible pathways.

The revised scope included improving the ADA ramps and crosswalks for the one page of plans originally submitted that was not performed elsewhere in the original grant application. Additional pedestrian crosswalks and striping were added to conform to the original grant objectives. The scope and budget were increased to fully utilize the available $225,000 grant funding by adding work that is reimbursable.

Caltrans notified the City on December 10, 2025 that the revised scope of work had been approved and would be reimbursed through the HSIP grant program.

ITEM ANALYSIS

The base bid of $253,064.00 included the furnishing of the labor, materials, and equipment for the installation of 11 ADA corner ramps, 3,850 square feet of sidewalk, 160 square feet of valley gutters, 430 linear feet of curb and gutter and related asphalt patch back and striping in accordance with the drawings and specifications.

Item #	Location	Scope
1	Crescent Elk School G & 11th	Curb & Gutter, ADA Ramp, and sidewalk
2		Valley Gutter
3		Curb & Gutter and ADA Ramp

4		Curb & Gutter, sidewalk, ADA walk around reinforced Driveway
5	Joe Hamilton School E & 10th	Curb & Gutter, sidewalk, and ADA Ramp
6		Curb & Gutter, sidewalk, and ADA Ramp
7		Sidewalk
8	Joe Hamilton School D & 10th	Curb & Gutter, Sidewalk, and ADA Ramp
9		Curb & Gutter, Sidewalk, and ADA Ramp
10	4th & A Street	Curb & Gutter, Sidewalk, and ADA Ramp
11		Curb & Gutter, Sidewalk, ADA Ramp, & 12' Reinforced driveway
12	5th & A Street	Curb & Gutter, Sidewalk, and ADA Ramp
13	5th & D Street	Curb & Gutter, Sidewalk, and ADA Ramp
14	5th & E Street	Curb & Gutter, Sidewalk, and ADA Ramp
15		Curb & Gutter, Sidewalk, and ADA Ramp
16	Joe Hamilton School C to D & 10th	Sidewalk

Contract Change Order #1 was a no cost change order that was superseded by Change Order #2.

Change Order #2 adjusted the original bid quantities based on the work completed in the field. This included both unit quantity increases as well as decreases as well as the unit cost adjustments. The overall adjustment created a credit to the City.

CCO2 –ADJUSTMENTS TO THE BASE BID

ITEM NO.	ITEM DESCRIPTION	UNIT	Bid QTY.	Work Completed this Period	UNIT PRICE	TOTAL PRICE
4	Asphalt & Concrete Demolition, Excavation & Prep	SF	135	135.0	$ 14.00	$ 1,890.00
5	Hot Mix Asphalt Patchback	SF	110	110.0	$ 10.00	$ 1,100.00
6	Concrete Sidewalks & Ramps - 4" section	SF	-1335	-1335.0	$ 18.00	$ (24,030.00)
7	Reinforced Concrete Valley Gutter - 6" section	SF	-8	-8.0	$ 30.00	$ (240.00)
9	Concrete Curb & Gutter	LF	-124	-124.0	$ 65.00	$ (8,060.00)
11	Thermo 12" stripe @ crosswalks - White	LF	-124	-124.0	$ 12.00	$ (1,488.00)

12	Thermo 12" stripe @ crosswalks - Yellow	LF	-150	-150.0	$ 12.00	$ (1,800.00)
13	Sidewalk only from D to C - 112LF x 5.5' wide, 1' high back curb	SF	-6	-6.0	$ 30.00	$ (180.00)
17	Reinforced Concrete Driveway	SF	230	230.0	$ 30.00	$ 6,900.00
					Total	**$ (25,908.00)**

Contract Change Order #3 consists of the work that was approved by Caltrans to be incorporated into our HSIP project to remain eligible for reimbursement. CCO3 changed the scope of the project by adding additional ADA corners at 7th and A Streets as shown in the grant application. Additional striping and signage was also added to comply with the original grant intent, though at locations completed by the Tidewater Contract. Unit costs have been adjusted to coincide with the revised project scope. Below is the CCO #3 in tabled format.

CCO3 - Scope Change - 7th and A West Side, Additional Striping and Signage

ITEM NO.	ITEM DESCRIPTION	UNIT	Bid QTY.	UNIT PRICE	TOTAL PRICE
1	Mobilization	LS	1	$ 9,000.00	$ 9,000.00
3	Traffic Control	LS	1	$ 4,500.00	$ 4,500.00
4	Asphalt & Concrete Demolition, Excavation & Prep	SF	1338.50	$ 15.00	$ 20,077.50
5	Hot Mix Asphalt Patchback	SF	958.0	$ 12.00	$ 11496.00
6	7th & A Concrete Sidewalks & Ramps - 4" section	SF	390	$ 21.00	$ 8,190.00
8	7th & A Detectable Warning Surface - ADA panel only placed 3'x5'	EA	2	$ 800.00	$ 1,600.00
9	Concrete Curb & Gutter	LF	64	$ 75.00	$ 4,800.00
18	Thermo 12" stripe @ crosswalks - White	LF	240	$ 13.50	$ 3,240.00
19	Thermo 12" stripe @ crosswalks - Yellow	LF	560	$ 13.50	$ 7,560.00

20	Striping removal	SF	100	$ 13.00	$ 1300.00
21	Pedestrian Signs W-11-2 & W16-7P (arrow) with posts - 24" wide	EA	12	$ 1,180.00	$ 14,160.00
22	Pedestrian Signs W-11-2 & W16-9P (ahead) with posts - 24" wide	EA	4	$ 1,180.00	$ 4,720.00
					$ 90,643.50

Tidewater Contractors, Inc. completed the HSIP Construction Project with the final invoice being received on May 25, 2026. All labor compliance documentation has been submitted and verified.

FISCAL ANALYSIS

Filing a notice of completion does not have a direct fiscal impact. The final 5% retention payment which was withheld from each progress payment and is currently held in a separate City account will be released 30 days after the notice of completion is recorded.

Tidewater Contractors Inc. completed the project on time and slightly over budget. The following tables summarize the projected and final expenditures for the project.

Crescent City HSIP Pedestrian Improvements FY25 Project **Projected** Cost

Tidewater Contractors Inc. Bid Contract	$253,064.00
Contract Change Order #1	0
Contract Change Order #2	(25,908.00)
Contract Change Order #3	$88,870
Total Anticipated Project Budget	**$316,026**

Crescent City HSIP Pedestrian Improvements FY25 Project **Final** Cost

Tidewater Contractors Inc. Inc. Bid Contract	$253,064.00
Contract Change Order #1	0
Contract Change Order #2	($25,908.00)
Contract Change Order #3	$90,643.50
Completed Project Budget	**$317,799.50**

The cost overrun was due to increased asphalt patching and demolition in Change Order #3.

The original project budget included the grant funding as well as the required local match. The City match of $25,000 was allocated from the Measure S budget which annually includes $100,000 for pedestrian improvements. The additional amount needed was also funded with Measure S funds.

Grant Application:	$225,000.00
Original City Match (Measure S):	$ 25,000.00
Additional Pedestrian Improvement funds (Measure S)	$ 67,799.50
Completed Project Budget:	$317,799.50

STRATEGIC PLAN ASSESSMENT

GOAL 1: SUPPORT QUALITY SERVICES, COMMUNITY SAFETY, AND HEALTH TO ENHANCE THE QUALITY OF LIFE AND EXPERIENCE OF OUR RESIDENTS AND VISITORS

C. Provide and maintain an efficient, adequate infrastructure to provide for both current and future community needs.

ATTACHMENTS

1. Draft Notice of Completion

Recording requested by
And after recording, return to:

City of Crescent City
Public Works Department
377 J Street
Crescent City, CA 95531

Exempt from recording fees per Gov. Code § 27383
Exempt from SB 2 fees per Gov. Code § 27388.1(a)(2)(D)

NOTICE OF COMPLETION AND ACCEPTANCE OF PUBLIC WORKS PROJECT
CONTRACT # 2025-1079

NOTICE IS HEREBY GIVEN by the City of Crescent City, that the Contract for the project entitled the **CRESCENT CITY HSIP PEDESTRIAN IMPROVEMENT PROJECT** (Contract # 2025-1079) which was let to:

Tidewater Contractors, Inc.
PO Box 1956
Brookings, OR 97415

as contractor, was completed on June 01, 2026 and accepted by the City Council of the City of Crescent City on June 15, 2026. The name and address of the owner of the property referred to above is the **City of Crescent City, 377 J Street, Crescent City, CA 95531** and the nature of the interest of the owner in the said property is fee. The work consisted of ADA sidewalks, ADA Curb ramp replacements, signage and striping at various streets in Crescent City. See "Attachment A" for a detailed listing of repair locations.

The project for public works improvements and the property on which said improvements are located within the city right of way on various city streets in the City of Crescent City, County of Del Norte, State of California.

VERIFICATION

I, the undersigned, declare that I am the City Manager of the City of Crescent City and that I have read the foregoing notice and know the contents thereof and that the same is true to the best of my knowledge and belief. I declare under penalty of perjury that the foregoing is true and correct.

Executed at Crescent City, California on this 16th day of June, 2026.

By:_____
Eric M. Wier, City Manager

NOTICE OF COMPLETION AND ACCEPTANCE OF PUBLIC WORKS PROJECT
CONTRACT # 2025-1079

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Del Norte

On _____before me, _____, Notary Public

personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal. [seal]

Signature

City of Crescent City 2/6/2025

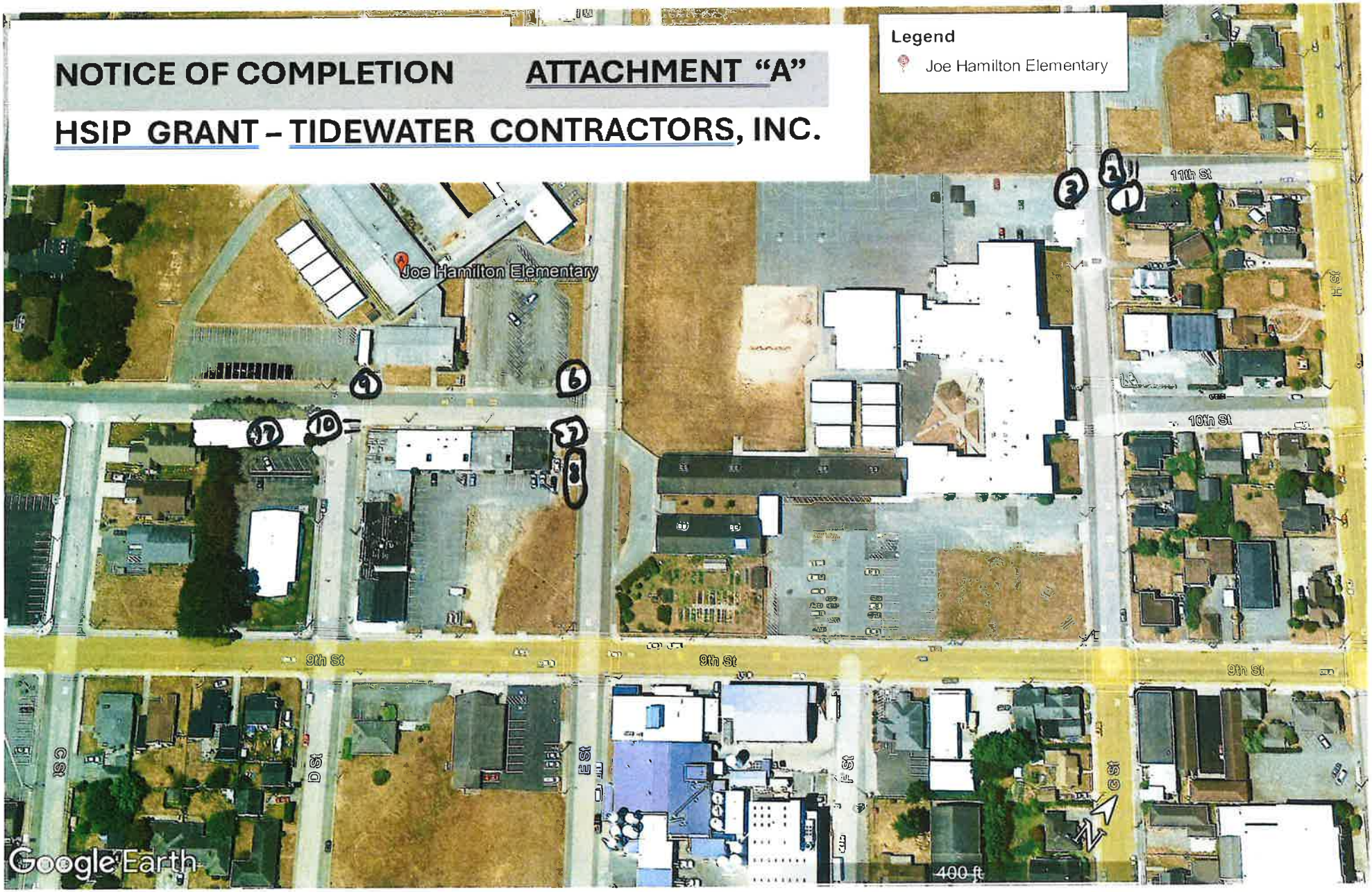
Concrete Pedestrian Improvements - inc. ADA Corners & Sidew

HISP GRANT -2023

Map #	Intersection		Corner
1	GSt	11th	SE
2	GSt	11th VG	E
3	GSt	11th	SW
6	ESt	10th	NW
7	ESt	10th	SW
8	ESt	10th S to 9th	W side
9	DSt	10th	NE
10	DSt	10th	SW
11	4th	Ast	SE
12	4th	Ast	NW
13	5th	A	SE
15	5th	E	SW
16	5th	E	NW
17	Dst west to C	10th	S Side

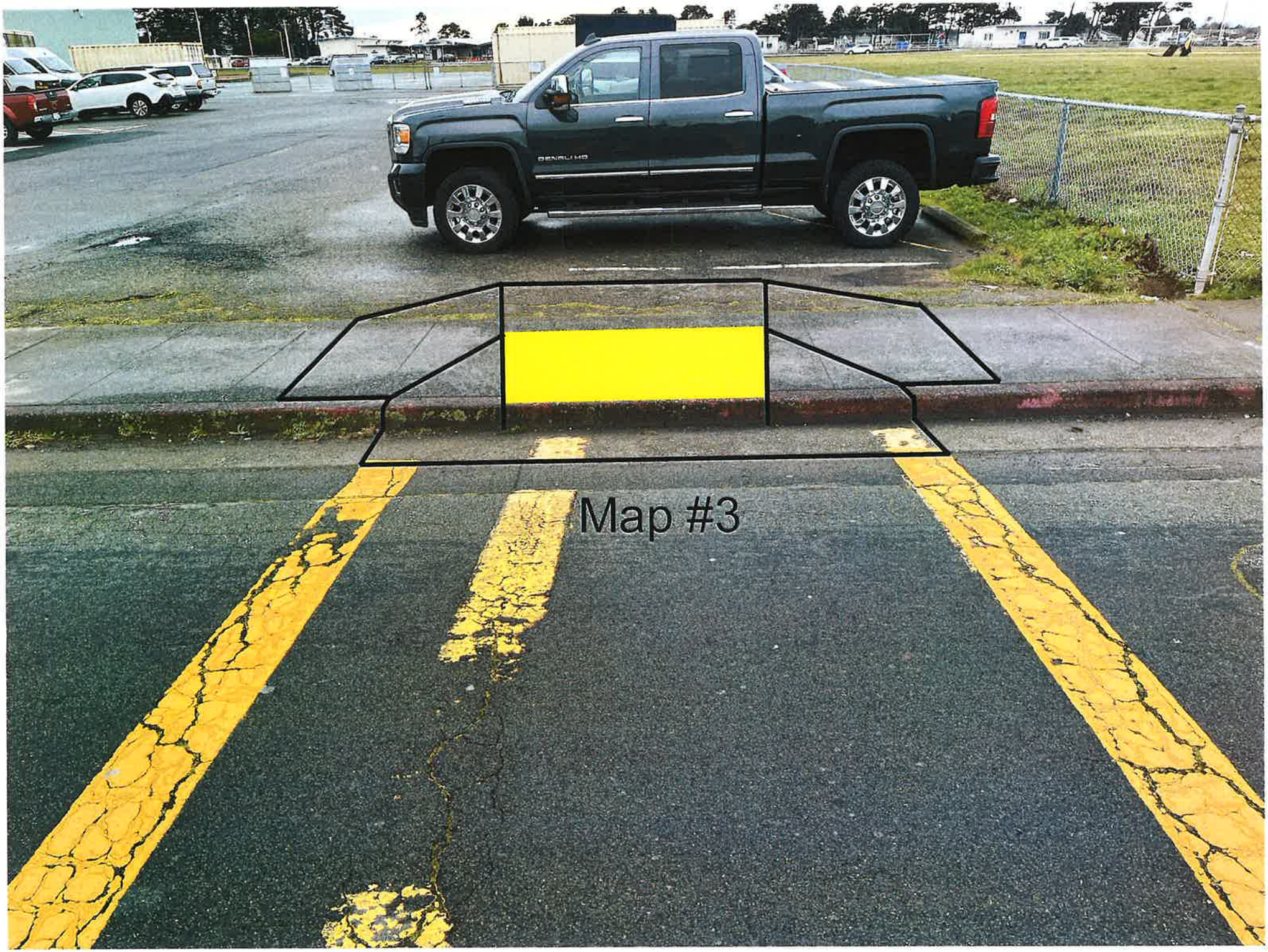
NOTICE OF COMPLETION ATTACHMENT "A"

HSIP GRANT – TIDEWATER CONTRACTORS, INC.




Map #1


Map #2

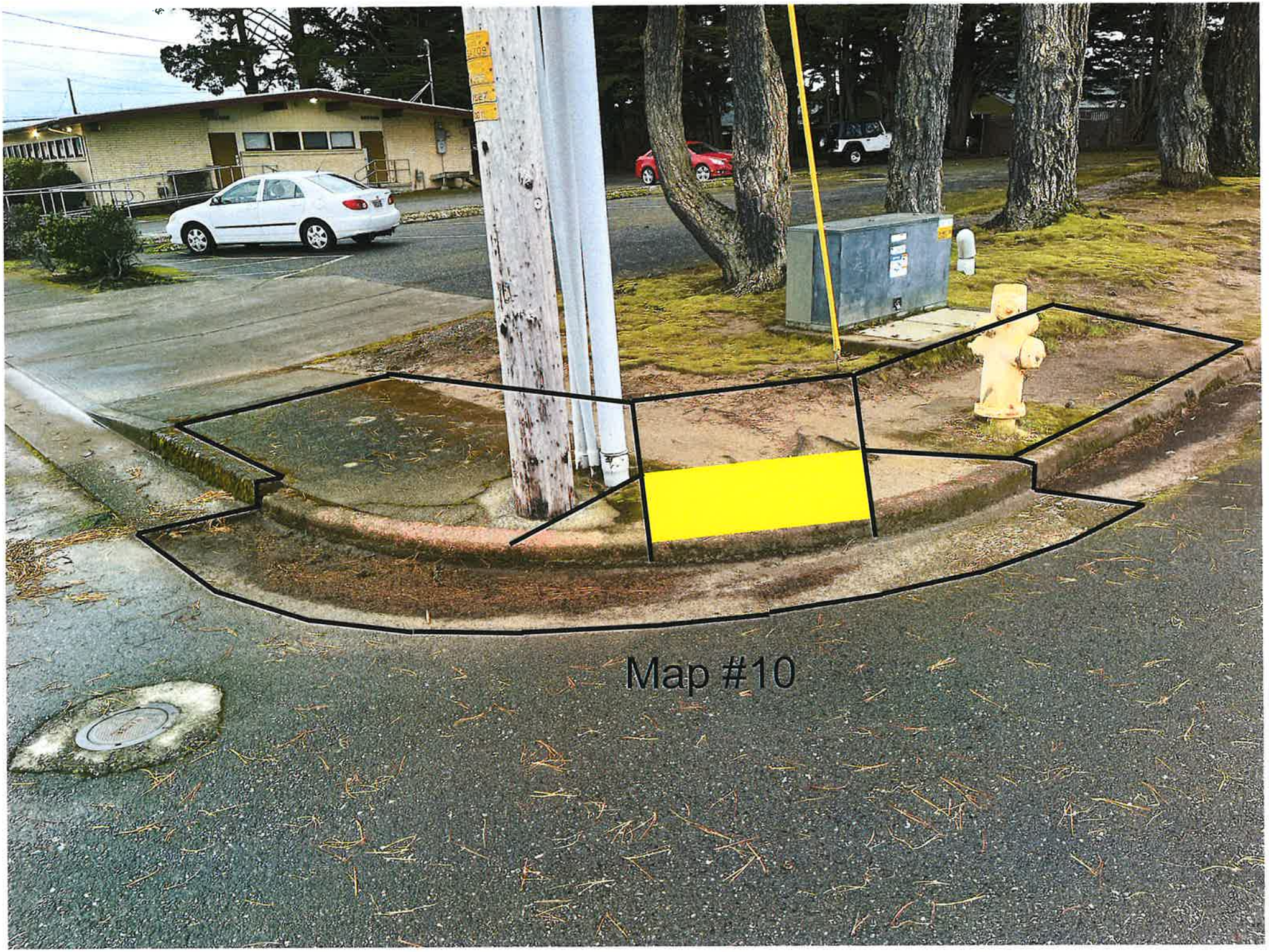

Map #3


Map #6

Map #7

Map #8
RKR 2722
RUMIANO


RECYCLE
Welcome to
DEL NORTE COUNTY SCHOOLS
Map #9


Map #10


A St. & Peterson Park ADA
HISP Grant 2023
Legend
Peterson Park
Peterson Park
7th St
6th St
5th St
4th St
3rd St
W 5th St
W 4th St
W 3rd St
Wendell St
A St
B St
C St
D St
E St
F St
G St
11
12
13
14
15
16
Google Earth
600 ft



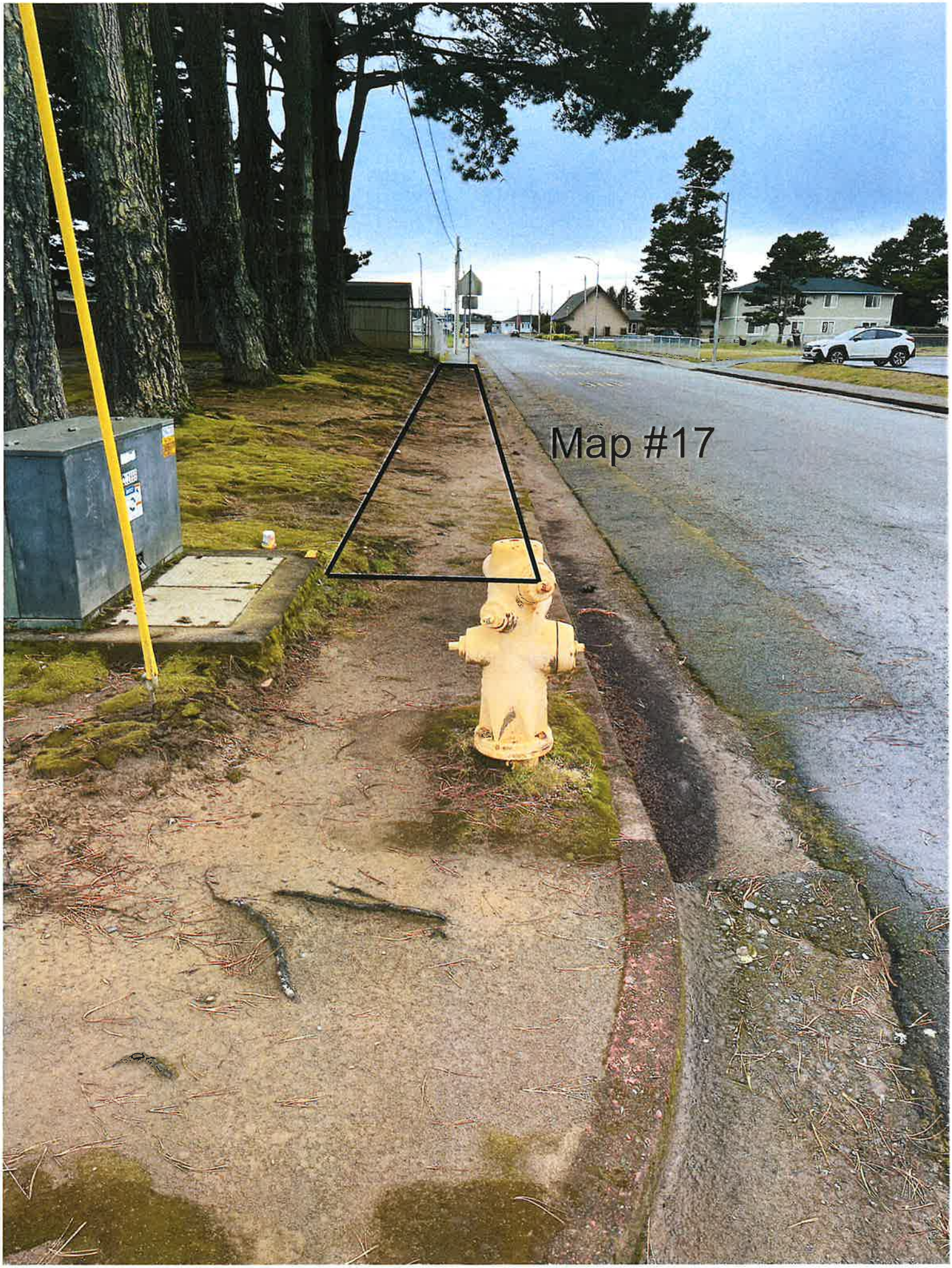
Map #11


Map #12

Map #13


Reset water valve box
Map #15


Del Norte County
Community Skate Park
Reset water valve box
Map #16


Map #17

HSIP CCO #3 - 7th Street West Corners



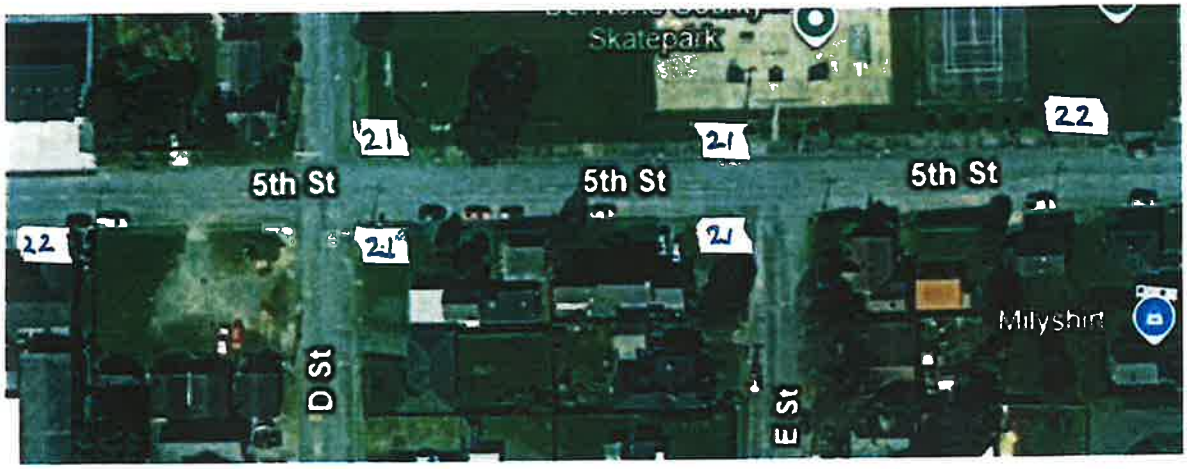


HSIP CCO #3 - Additional AC repair on A @ 7th St - 12' x 28'



HSIP CCO #3 - Pedestrian Crosswalk Locations







(21) W-11-2 & W16-7P (Left or Right down arrow) – 24" wide

(22) W-11-2 & W16-9P (ahead) – 24" wide

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

DATE: **JUNE 15, 2026**

SUBJECT: **REVIEW OF DRAFT BUDGET AND APPROVAL PROCESS FOR THE DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY FOR FY 26/27**

RECOMMENDATION

Take no action; (a lack of response is to be treated as approval of the budget as presented), or:
If there are any specific comments that should be addressed by the Del Norte Solid Waste Management Authority Board before adoption of this budget, such written comments should be approved and submitted to the Authority. If there is a written objection to the proposed Authority budget, this body should also designate a representative to be present at the Authority meeting scheduled for June 20th so such concerns may be resolved and the Authority may adopt a budget for Fiscal Year 2026/2027 before June 30, 2026.

BACKGROUND

See attached staff report from Tedd Ward, M.S., Director of Del Norte Solid Waste Management Authority.

STRATEGIC PLAN ASSESSMENT

This action supports the following Strategic Plan goals:

- Goal 1: Support quality services, community safety, and health to enhance the quality of life and experience of our residents and visitors

ATTACHMENTS

- Del Norte Solid Waste Management Authority staff report

Del Norte Solid Waste Management Authority

P.O. Box 1924, Crescent City, CA 95531
Phone (707) 465-1100 Fax (707) 465-1300
www.recycledelnorte.ca.gov

The Authority's mission is the management of Del Norte County solid waste and recyclable material in an environmentally sound, cost effective and safe manner while ensuring 100% regulatory compliance with law.

Staff Report

Date:	20 May 2026
To:	Crescent City Council Del Norte County Board of Supervisors
From:	Tedd Ward, M.S. – Director Del Norte Solid Waste Management Authority
File Number:	022102 – Authority Budget
Topic:	Review of Draft Budget and Approval Process for the Authority Budget for FY 26/27

Recommendation: After reviewing the proposed budget for Fiscal Year 2026/2027 for the Del Norte Solid Waste Management Authority that the Board of Supervisors and City Council take one of the two following actions:

1. **Take no action. A lack of response is to be treated as approval of the budget as presented.**

- **OR -**

2. **If there are any specific comments that should be addressed by the Del Norte Solid Waste Management Authority Board before adoption of this budget, such written comments should be approved and submitted to the Authority.**

   a. **If there is a written objection to the proposed Authority budget, this body should also designate a representative to be present at the Authority meeting scheduled for June 20th so such concerns may be resolved and the Authority may adopt a budget for Fiscal Year 2026/2027 before June 30, 2026.**

Background: In order to provide context for preparing a draft budget for Fiscal Year 2026/2027, staff have included a summary of the status of the current (FY 25/26) year budget, including budget transfers as tracked by the Del Norte County Auditor's office. The budget for the Del Norte Solid Waste Management Authority is approved ahead of and separately from the County budget. The Authority budget is approved before June 30, whereas the final County budget is usually not approved until September or October.

Prior to final adoption by the Authority in June, the proposed budget will be presented to the Crescent City Council and the Del Norte County Board of Supervisors for comment. Any written comments approved by the City or the County will be brought to the Authority Board for consideration before adopting the final budget. The Authority will also provide public notice for and hold a public hearing prior to adopting this budget, likely at the June Authority meeting.

Analysis: The proposed balanced budget for Fiscal Year 2026/2027 is attached. If approved by the Authority Board, staff will follow up with a presentation to the City Council possibly on June 1st and the Board of Supervisors possibly on June 9th. Any approved written comments provided by the City or County will be brought back to the Authority Board for consideration prior to adopting the final budget at the June 16th Authority Board meeting.

This staff report is intended to give an overview of the assumptions and projections to be used in the preparation of the Authority budget for Fiscal Year 2026/2027.

Projected Expenses

Each year since the opening of the Del Norte County Transfer Station in 2005, the Authority's largest single expense has been payment to Hambro/WSG for their transfer station operation services, and this amount comprises about 53% of the expenses anticipated for the coming fiscal year.

This proposed budget includes a 9% increase to Salaries and Benefits compared to this past fiscal year, as negotiations with SEIU 1021 continue, including compensation review.

Several of these amounts are based on prior projections by the Del Norte County Auditor's office, including depreciation and the "Interfund Cost Plan", which is the charge for our share of County services including use of the Board of Supervisor's Chambers, and services from the County Human Resources and Auditor.

This proposed budget includes available funding for property purchase and/or construction expenses associated with developing a northern transfer station, and/or expenses related to the purchase, litigation and cleanup of properties adjacent the Crescent City Landfill, or replacement of equipment or structures at the aging Del Norte County Transfer Station. Staff do not anticipate much progress on the Northern Transfer Station in the coming fiscal year unless the Tolowa Dee-Ni' Tribal Council express greater interest and support for this project.

Revenue Projections

Fiscal Year 26/27 will include some expenses associated with completing the OWR 4 grant from CalRecycle for local assistance with respect to SB 1383 requirements, as well as grants for beverage containers and used oil programs. Both grant revenues and associated expenditure lines are not specifically included in this budget, as those items are added by the Auditor's office using journal entries or budget transfers as details of each grant become clear.

The two main sources of revenue for Authority operations are the Franchise Fees (90153) and Authority Service Fees (91004), about 1/3 of the transfer station tipping fees.

Budget amounts for Authority Service Fees and Franchise Fees are based on the projection for revenues in each of these lines for this fiscal year, increased by half of the increase in CPI (from March 2025 to March 2026) of 3.256%. Both rate adjustments and general trends for increasing annual tons disposed make these deliberate underestimates of these revenue lines.

The largest revenue line is TS Gate Fees (48755), about 2/3 of the transfer station tipping fees. This is the main source of revenue to pay Hambro/WSG. We intend to budget the amount to pay Hambro/WSG from the Transfer Station Operations line (52179), paid from line (48755). Approximately $40,000 of this amount will be paid from Authority Service Fees (48756), which are collected at the Gasquet and Klamath Transfer Stations.

New County Accounting System

Staff have included some the correlating new budget lines under Del Norte County's ERP accounting system.

5101000

DNSWMA PROPOSED BUDGET for Fiscal Year 2026 / 2027

Code	Project	422 Line	421 Project	Description	25/26 Revised	FY 26/27 Proposed
		Salaries and Benefits				
S1100		10010		Payroll	$ 6S0,000.00	$ 710,000.00
51100		10010	70	Payroll		
S111S		10012		Overtime	$ 10,000.00	$ 10,000.00
51116		10012		Overtime - Holiday	$ 10,000.00	$ 10,000.00
S1110		1001S		Part-time/Temp	$ 5,000.00	$ 5,000.00
S1600		10020		Retirement	$ 102,000.00	$ 102,000.00
S1610		10022		Retirement - CalPERS Unfunded Liability	$ 11S,000.00	$ 11S,000.00
S120S		10030		Cell Phone Allowance		$ 3,600.00
S1230		10030		Uniform Allowance		
S1300		10030		Medicare	$ 180,000.00	$ 180,000.00
S130S		10030		FICA		
S270S		10032		Supp Health Insurance		
51120				Holiday Pay		
S112S				Standby Pay		
51130				Vacation Payout		
S1400		10033		Employee Life Insurance	$ 26S.00	$ 26S.00
S1411		10035		Management Life Insurance	$ 880.00	$ 880.00
5140S		10040		Worker's Compensation	$ 15,000.00	$ 1S,000.00
				Salaries and Benefits	$ 1,088,14S	$ 1,1S1,745
		Services & Supplies				
S3300		20110		Clothing and Personal Supplies	$ 1,8S0.00	$ 1,900.00
S366S				Wellness Reimbursement		$ 2,S00.00
S2800		20121		Communications	$ 3,000.00	$ 3,000.00
S330S		20140		Household Expense	$ 7,000.00	$ 6,400.00
S3320				Safety Supplies		$ 600.00
S270S		201S0		Insurance - Property	$ 10,000.00	$ 10,100.00
S2700		201S1		Liability Insurance		
52701		201S2		Vehicle Insurance	$ 7,000.00	$ 7,000.00
52700		201SS		Liability Insurance	$ 2,500.00	$ 2,500.00
S2500		20170		Maintenance-Equipment	$ S00.00	$ 500.00
S2S20		20171		Maintenance-Vehicles	$ 2,000.00	$ 2,000.00
S3410		2017S		Computer Equipment / Accessories	$ 2,000.00	$ 2,000.00
5250S		20180		Maint-Structures/Improvements & TS Maint	$ 9,000.00	$ 11,000.00
S2S2S				Maint- Infrastructure / Land		$ S,000.00
S3325				Landfill maintenance - Landscape / Ag Supplies		$ 5,000.00
S363S				Service Awards		$ 1,000.00
S3120		20200		Memberships	$ 9,000.00	$ 9,100.00
S2820		20221		Printing	$ 820.00	$ 820.00
S2820		20221	72	Printing - DOC Grant 18/19		
52820		20221	71	Printing - Oil Grant 18/19		
S2820		20221	69	Printing - DOC Grant 20/21		
S2820		20221	64	Printing - Oil Grant 20/21		
S2820		20221	92	Printing - DOC Grant 19/20		
S2820		20221	91	Printing - Oil Grant 19/20		
S3110		20223		Postage	$ 900.00	$ 900.00
S3100		20224		Office Supplies	$ 7,000.00	$ 7,000.00
S310S				Office Furniture / Fixtures		
5311S		20227		Books/Subscriptions	$ 1S0.00	$ 1S0.00
S33S0				Maintenance Supplies		
S3330				Janitorial Supplies		
S2490		20229		Prof Serv- HD 33 19/20		
52490		20230		Prof Serv-Co/City	$ 3,000.00	$ 3,000.00
S2490		20231		Prof Serv	$ 110,000.00	$ 80,000.00
S2490		20231	76	Prof Services - USFS Grant		

5101000

DNSWMA PROPOSED BUDGET for Fiscal Year 2026 / 2027

		422	421		25/26	FY 26/27
Code	Project	Line	Project	Description	Revised	Proposed
52490		20231	76	Prof Services - CalTrans / Clean CA		
52490		20232		Prof Serv-Well Monitoring	$ 60,000.00	$ 60,000.00
53415		20232	2	Data Processing - Software	$ 6,000.00	$ 6,200.00
52125		20233		Audit	$ 13,500.00	$ 13,500.00
52825				Bank Charges		$ 200.00
52140		20234		Legal Counsel	$ 10,000.00	$ 12,000.00
52125		20235		Treasurer	$ 3,300.00	$ 3,300.00
52335		20236		Security	$ 3,000.00	$ 3,000.00
52825		20237		Credit Card Service Fees	$ 30,000.00	$ 32,000.00
52178		20238		T5 Collection	$ 29,000.00	$ 32,000.00
52179		20239		Transfer Station Operations	$ 2,950,000.00	$ 2,970,000.00
53325		20239	1	Post Closure Maintenance	$ 10,000.00	$ 10,000.00
52179		20239	76	Transfer Station Ops - Clean CA		
52810		20240		Advertising / Marketing	$ 5,000.00	$ 5,000.00
52830				Publications & Legal notices		
52810		20240	xx	Advertising - DOC Grant 24/25	$ 2,000.00	$ 2,000.00
52810		20240	yy	Advertising - Oil Grant 24/25		
52810		20240	93	Advertising Oil Grant - 20/21		
52810		20240	94	Advertising- DOC Grant 20/21		
52810		20240	92	Advertising - DOC Grant 19/20		
52810		20240	91	Advertising - Oil Grant 19/20		
52600		20250		Rent / Lease of Equipment	$ 2,000.00	$ 2,000.00
52600		20250	70	Lease of Equip- USF5 Grant		
52605		20251		Lease - Gasquet Transfer Station	$ 850.00	$ 900.00
52605		20260		Rent-Office		
		20269		Lease Payment - Card Machine		
53400		20270		Minor Equipment ($2K-$5K)	$ 2,500.00	$ 2,500.00
53400		20275		Small Tools (<$1K)	$ 1,200.00	$ 1,200.00
53400		20270	70	Small Tools - U5F5 Grant		
52175		20280		Delivery Service	$ 400.00	$ 893.00
53601		20281		Household Hazardous Waste Event	$ 120,000.00	$ 120,000.00
53602		20283		Community Clean-up	$ 12,200.00	$ 12,200.00
53602		20283	70	Community Clean-up - USF5 Gran		
53600		20285		Special Dept Expense	$ 2,500.00	$ 2,500.00
53600		20285	xx	Spec Dept Exp-DOC Grant 24/25	$ 6,000.00	$ 6,000.00
53600		20285	yy	Spec Dept Exp-Oil Grant 24/25		
53600		20285	93	Spec Dept Exp-Oil Grant - 20/21		
53600		20285	94	Spec Dept Exp - DOC Grant 20/21		
53600		20285	92	Spec Dept Exp - DOC Grant 19/20		
53600		20285	91	Spec Dept Exp - Oil Grant 19/20		
47600		20286		Cash Over/Under	$ 250.00	$ 250.00
52325		20287		DNDI Other Pickups		
52325		20287	70	DNDI Pickups - U5F5 Grant		
53607		20288		City Collections	$ 15,000.00	$ 15,000.00
52900		20290		Training / Conference Expenses	$ 8,700.00	$ 9,000.00
52905		20290	70	Travel - U5F5 Grant		
52905		20290	xx	Travel - DOC Grant 24/25	$ 7,000.00	$ 7,000.00
52905		20290	yy	Travel- Oil Grant 24/25		
52905		20290	93	Travel-Oil Grant - 20/21		
52905		20290	94	Travel - DOC Grant 20/21		
52905		20290	92	Travel - DOC Grant 19/20		
52905		20290	91	Travel - Oil Grant 19/20		
51210		20291		Commissioner Expense		
53250		20297		Vehicle Fuel	$ 1,000.00	$ 1,500.00
53200		20300		Utilities - propane		
54700				Bad Debt Expense		
52840		20301		Permits / License Fees	$ 38,000.00	$ 43,000.00
				Services & Supplies	$ 3,515,120	$ 3,534,613
		Other Charges				
54327		30420		Interest Payments		

5101000

DNSWMA PROPOSED BUDGET for Fiscal Year 2026 / 2027

	422	421		25/26	FY 26/27
Code	Project	Line	Project	Description	Revised	Proposed
54327		30440		Transfer Station Loan Pymts-Interest		
19305		30490		Depreciation Expense	$ 82,000.00	$ 82,000.00
54000		30500		Department Allotment		
		Fixed Assets				
55100		40610		Property	$ 150,000.00	$ 397,000.00
55400		40620		Equipment	$ 65,000.00	$ 65,000.00
		Intra / Inter Fund Transfers				
54900		70530	25	Interfund-Repayment to County	$ 193,000.00	$ 195,000.00
59819		70530	199	Interfund-Cost Plan	$ 90,787.00	$ 100,000.00
51605		70800		ARC Payment OPEB	$ 100,000.00	$ 100,000.00
		70910		Op. Transfer Out		
		70910	123	Op Trans Out Bad Check Fee	$ 150.00	$ 150.00
		Other Charges				
59529		81000		Contingency	$ 3,000.00	$ 10,000.00
				Other Charges	$ 683,937	$ 949,150
		TOTAL EXPENDITURES			$ 5,287,202	$ 5,635,508

5101000

DNSWMA PROPOSED BUDGET for Fiscal Year 2026 / 2027

Code	Project	422 Line	421 Project	Description	25/26 Revised	FY 26/27 Proposed
		Revenues				
41350		90153		Franchise Fees	$ (549,000.00)	$ (592,000.00)
		90210		Code Enforcement		
45100		90300		Interest - Solid Waste	$ (40,000.00)	$ (40,000.00)
49046		90301		Late Payment Fee	$ (500.00)	$ (1,500.00)
44484		90650	xx	DOC Grant 24/25		
44484		90650	yy	Oil Grant 24/25		
44484		90650	94	DOC Grant 20/21		
44484		90650	93	Oil Grant 20/21		
44484		90650	91	DOC Grant 19/20		
44484		90650	92	Oil Grant 19/20		
44484		90650	70	U5F5 Cleanup Grant		
44484		90651		HD 33 Grant 19/20		
		90830		Closure/Post Closure Fee		
		91001		Tipping Fees		
		91002		Resource Recovery Infrastructure Fee		
48755		91003		Gate Tipping Fees	$ (3,118,997.96)	$ (3,137,533.34)
48755		91003	99	Gate Tipping Fees - Prior Yr	$ (1,100.00)	$ (1,100.00)
48756		91004		Authority Service Fees	$ (1,851,000.00)	$ (1,862,000.00)
48756		91004	99	DN5WMA Tipping Fees - Prior Yr	$ (600.00)	$ (600.00)
		91070		Operating Transfer In (from 608)		
		91070	25	Op Tran in from County (Loan)		
		91075	25	Op Transfer in from County		
49048		91121		Misc Reimbursements	$ (700.00)	$ (700.00)
		91121	123	Bad Check Fee Reimb	$ (75.00)	$ (75.00)
		91122		Insurance Recovery		
		91124		Misc Revenue		
		91127		Liability Insurance Recovery		
		91130		Construction Loan		
		91131		UI Recovery		
		TOTAL REVENUES			$ (5,561,973)	$ (5,635,508)
				Revenues and Expenses	$ (274,771)	$ (0)

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **DAVID YEAGER, DIRECTOR OF PUBLIC WORKS**
CLIFF VAN HOOK, ENGINEERING PROJECT MANAGER

DATE: **JUNE 15, 2026**

SUBJECT: **LIGHTHOUSE COVE RESTROOM REMODEL CONTINGENCY AND APARTMENT EXTERIOR STAIR BUDGET ADJUSTMENT**

RECOMMENDATION

- Authorize the City Manager to sign an additional $15,000 in future change orders for Lighthouse Cove RV Park Restroom Remodel Project
- Approve and adopt Resolution No. 2026-46, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY

BACKGROUND

In 1963 the City of Crescent City received a State Land Grant and became the owner of certain tidelands and submerged lands including the land where Lighthouse Cove RV Park now sits. The RV Park was originally constructed in 1971 and the City leased the land to a third party for many years. In or around 2006, the City took over the management of what was then “Shoreline RV Park” and began to directly oversee its operations.

After receiving an Economic Development Administration grant, the City embarked on a major remodel for the park in 2015 that included a reduction of the total sites from 192 to 94 and focused on customer experience including the layout of sites, upgrades to utilities, and improved amenities.

During the FY 23-24 budget workshop for the City Council, the Lighthouse Cove RV Park enterprise fund was discussed, and it was brought to the Council’s attention that revenues were not projected to cover future expenses. Increasing revenues was discussed including raising the space rent fees and possibly renting the apartment located above the park’s office and restrooms. A new rate structure was approved for the existing spaces, and staff began to look for opportunities to fund the apartment renovation. The

1,200 square foot apartment would be rentable with some updating, but since it wasn't ADA compliant, it couldn't be rented out without an alternate ADA accessible rental available.

With a need to increase the overall revenues to improve the guest experience and maintain affordability, the goals became to update the park's restrooms, provide an ADA accessible rental space, and update the upstairs apartment. After establishing these three goals, City staff applied for and received a grant through the State Coastal Conservancy for $835,000 to achieve the three desired grant deliverables:

- Lighthouse Cove Bathroom Remodel, to serve all patrons of the RV Park and improve the guest experience.

- Install 2 prefabricated ADA compliant cabins along Elk Creek for use as short-term rentals, providing accessible lower-cost accommodations.

- Remodel the upstairs Lighthouse Cove Apartment so it can be used for short-term rentals.

The Coastal Conservancy grant objective of providing lower cost accommodations adjacent to the beach will benefit the visiting public allowing them to stay in our coastal community. The project listed above will provide (2) ADA and (1) non-ADA lower-cost short-term rental options. This will increase the Park's overall revenue to ensure a more viable business model, allowing the city to continue making capital improvements such as improving the road within the park.

ITEM ANALYSIS

As the remodeling of the public bathroom is underway and past the halfway point, and a design Request For Proposals (RFP) is being created by staff for the apartment remodel, two items need to be brought before the council for approval so the projects can be funded.

Item #1: Lighthouse Cove RV Park – Restroom Remodel – Provide an additional $20,000 from the RV Park Fund and authorize the City Manager to sign up to an additional $15,000 in future change orders for the Lighthouse Cove Restroom Remodel contract.

On March 16, 2026, Council authorized the City Manager to sign a contract with RH Construction, as well as authorizing the City Manager to sign up to $30,000 of Change Orders. The original contingency approved as requested in the Staff Report was $24,600. While performing the bathroom remodel, scope changes have occurred to improve the finished product, updating current Building Code deficiencies, and meeting environmental health standards for public restrooms. These changes orders to date total $30,053.80. Additional change orders may arise requiring the funding beyond the $30,000 authorized limit. Below is a list of the change orders to Date.

RH Construction Base Bid	$	194,500.00
Initial requested Contingency	$	24,600.00
Project funding budget as of March 16, 2026 Council approval	$	219,100.00
CO#1a: Change Bath Partitions from CGL to Phenolic. This change was made during the submittal process as the Phenolic partitions are more durable in wet environments. – City Manager has approved CO.	$	887.80
CO#1b: Bathroom Entrance ADA Issues. Code required upgrades to concrete landing and steel rail. – City Manager has approved CO.	$	19,918.00
CO#2a: The installation of Fiber Reinforced Wall paneling (FRP) to cover concrete block walls for aesthetics and sanitary concerns. The CMU block walls uncovered during demolition were rough with crevices for bacteria to develop. – CO #2 approval by City Manager pending Council approval	$	7,270.00
CO#2b: Partial bathroom ceiling demo, correct slope in sanitary drain for upstairs bathroom, and reconstruct ceiling/floor joists as code required. - CO #2 approval by City Manager pending Council approval	$	1,978.00
Total Construction Cost to Date	**$**	**224,553.80**
Total Funding to Date	**$**	**219,100.00**
Requested additional funding	$	20,000.00
Contingency amount created by budget amendment funding increase	**$**	**14,546.20**
Restroom construction contract potential total cost with contingency	$	239,100.00
Temporary restroom rental facilities for park during construction	$	40,000.00
Total Restroom Remodel project cost	**$**	**279,100.00**

Due to Building Code required upgrades and environmental health standards, city staff had to proceed on the above change orders. City staff recommend increasing the Restroom Remodel Project budget by $20,000 to cover the existing change orders and create an additional $14,546.20 for contingency. City staff also recommend providing the City Manager authorization to approve an additional $15,000 in Change Orders to utilize the contingency fund if required.

Item #2: Lighthouse Cove RV Park – Apartment Scope Changes

On April 20, 2026, the City Council approved a budget adjustment for the apartment remodel portion of the project. It was originally assumed the primary exit from the upstairs apartment would be the existing interior staircase, with a fixed ladder off an exterior deck floor serving as an emergency exit (as opposed to exiting through a window). Upon discussion with Stover Engineering & Chief Gillespie, it was determined that recent Building Code updates prohibited a fixed ladder from being an approved fire exit. This change will require the addition of an exterior staircase off the 2nd story apartment deck. The April 20th budget amendment brought before the Council contained a $2,500 budget for a prefabricated fixed ladder. The engineer's estimate for a cedar staircase being constructed at prevailing wage rates is $40,000, requiring an additional $37,500 after crediting the cost of the fixed ladder. In addition, there is a $5,000 fee for Stover Engineering to design the staircase providing structural calculations. In total, City staff

recommend a budget adjustment of $42,500 to be allocated towards the Apartment project.

FISCAL ANALYSIS

Below is an updated summary of anticipated project costs for the project including the addition of the two new ADA cabins, the public restroom remodel, and the remodeling of the existing upstairs apartment. This budget summary includes Council adoption of the Budget resolution submitted to Council for approval.

Construction – Cabins (including design and permitting)	$ 405,700
Construction – Restrooms (including design, permitting, and restroom rental)	$ 259,100
Construction – Restrooms June 15, 2026 Resolution for increasing project funding for the restroom remodel	**$ 20,000**
Construction - Apartment full abatement and rebuild (including design, permitting, construction and April 20, 2026 budget adjustment)	$ 363,100
Construction – Apartment June 15, 2026 Resolution for increasing project funding for the apartment exterior stairs	**$ 42,500**
Total cost for grant deliverables and expanded scope of improvements	$ 1,090,400

City staff is requesting a budget amendment of $62,500 for the two items listed above. The purpose of this funding is to cover existing change orders and provide contingency for any future change orders on the Restroom Remodel. It also provides a pre-bid budget for the RFP to cover the costs for the engineering and construction of the added exterior stairs.

This $62,500 would increase the RV Park funds used for the project to $262,500 after including it with the $200,000 budget amendment approved by Council on April 20, 2026. The estimated working capital balance in the RV Park Fund as of the end of this fiscal year is $749,954, and the proposed budget for FY 2026-27 would result in a working capital balance of $528,809. The requested $62,500 would reduce the proposed FY 2026-27 working capital to $466,309.

The increased rents received for the rental of the three cabins covered under the grant will provide immediate increased revenue. After construction these three additional revenue streams, conservatively estimated to net over $60,000 annually, can be utilized to make further improvements to the park, such as communication, road and drainage improvements.

STRATEGIC PLAN ASSESSMENT

This action supports the following Strategic Plan Goals:

GOAL 1: SUPPORT QUALITY SERVICES, COMMUNITY SAFETY, AND HEALTH TO ENHANCE THE QUALITY OF LIFE AND EXPERIENCE OF OUR RESIDENTS AND VISITORS

D. Provide and maintain an efficient, adequate infrastructure to provide for both current and future community needs

GOAL 2: PROMOTE A THRIVING LOCAL ECONOMY

C. Research and implement methods to increase local tourism and funding for tourism promotion

F. Plan and prepare for the growth and future needs of the Crescent City community by:

- Engaging with residents, visitors, and businesses through ongoing marketing of City products, services, and facilities
- Expanding on the success of grant funding by maximizing utilization of opportunities with corresponding community needs

ATTACHMENTS

1. Resolution No. 2026-46 (budget adjustment)

RESOLUTION NO. 2026-46

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AMENDING THE FISCAL YEAR 2025-26 BUDGET OF THE CITY OF CRESCENT CITY

WHEREAS, the budget for the fiscal year beginning July 1, 2025 and ending June 30, 2026, as submitted by the City Manager, has been reviewed by the City Council and a duly-noticed public hearing held thereon the 16th day of June 2025; and

WHEREAS, the City Council adopted said budget by way of Resolution No. 2025-24 and has the authority to amend said budget from time to time; and

WHEREAS, the City owns and is responsible for maintenance of Lighthouse Cove RV Park; and

WHEREAS, the City of Crescent City relies on the RV Park being a self-sustaining facility; and

WHEREAS, the City received a State Coastal Conservancy grant for improvements at Lighthouse Cove RV Park, including the installation of two ADA cabins, refurbishment of the two park restrooms, and updating the upstairs apartment so it can be utilized as a short-term rental unit; and

WHEREAS, the City needs to perform unforeseen environmental health and code improvements to the restroom, and increase apartment funding for an added exterior stair in lieu of the fixed ladder off the second floor deck; and

WHEREAS, staff propose to utilize $62,500 of the RV Park's working capital balance to fund this increased scope of work; and

WHEREAS, fulfillment of these priorities requires an amendment to the City's Fiscal Year 2025-26 budget.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CRESCENT CITY AS FOLLOWS:

1. That the Fiscal Year 2025-26 City of Crescent City Annual Budget is hereby amended and appropriated in the amounts identified below:

	Revenue Increase (Decrease)	Expenditure Increase (Decrease)
RV Park Fund		$62,500

2. That the unspent portion of this capital improvement budget will be carried forward to the next fiscal year until the project is completed.

APPROVED and ADOPTED and made effective the same day at a meeting of the City Council of the City of Crescent City held on the 15th day of June 2026 by the following polled vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Isaiah Wright, Mayor

ATTEST:

_____
Robin Altman, City Clerk

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **MARTHA D. RICE, CITY ATTORNEY**

DATE: **JUNE 15, 2026**

SUBJECT: **COMMUNICATIONS TOWER GROUND LEASE AMENDMENT**

RECOMMENDATION

- Approve and authorize the City Manager to sign Ground Lease Amendment No. 1 with California Rural Service Area #1, Inc. for the communications tower located on the Amador Tank parcel [APN 120-280-017]

BACKGROUND

The City owns a parcel at the corner of Macken Avenue and Amador Street, which is the site the water system's Amador Tank. In 2006, the City entered into a ground lease with California Rural Service Area #1, Inc. for the siting of a communications tower. The lease allowed the tenant to construct a communications tower and associated equipment in the southeast corner of the parcel. The original rent payment was $1500 per month, with an annual escalation factor. The lease has 10 more years.

In early May, the tenant contacted the City stating that its only sublessee on the tower (T-Mobile) was vacating the structure due to its merger with US Cellular. The tenant stated that they would need to either terminate the lease and remove the tower or re-negotiate its terms. The City and the tenant have come to an agreement as to modified terms for the remaining 10 years of the lease.

ITEM ANALYSIS

The amendment will change the rent to $1000 per month, to increase 10% in March 2027 and another 10% in March 2032. For each sublessee that the tenant signs, the City will receive an additional $250 per month. All other terms of the ground lease remain the same as in the original lease which is attached to this staff report.

FISCAL ANALYSIS

Because the parcel is a Water Fund asset, the City's Water Fund will receive the revenue, which will be a minimum of $146,600 over the next 10 years, unless the lease is terminated earlier.

STRATEGIC PLAN ANALYSIS

This item is consistent with the following strategic plan goals:

- Goal 1: Support Quality Services, Community Safety, and Health to Enhance the Quality of Life and Experience of Our Resident and Visitors
    - A. Enhance collaboration with other agencies and the community to better aid the public.
    - D. Provide and maintain an efficient, adequate infrastructure to provide for both current and future community needs

ATTACHMENTS

1. Draft Ground Lease Amendment No. 1
2. Ground Lease dated November 14, 2006

FIRST AMENDMENT TO GROUND LEASE

THIS FIRST AMENDMENT TO GROUND LEASE ("First Amendment"), entered into on _____, 2026 ("First Amendment Effective Date") modifies that certain Ground Lease dated November 14, 2006, by and between City of Crescent City, having an address at 377 "J" Street, Crescent City, California 95531, hereinafter referred to as "Landlord", and California Rural Service Area #1, Inc., a California corporation, having an address at Attention: Real Estate Lease Administration, 500 West Madison Street, Suite 810, Chicago, Illinois 60661, hereinafter referred to as "Tenant".

WHEREAS, Landlord and Tenant entered into that certain Ground Lease dated November 14, 2006 (the "Lease") to allow Tenant to locate a telecommunications base station on the property located in the County of Del Norte, State of California, where said property of Landlord, and lease space and easements granted to Tenant are legally described in Exhibit A attached hereto; and

WHEREAS, Landlord and Tenant desire to execute this First Amendment to memorialize certain terms of the Lease for recording in the Clerk's Office of Del Norte County, California; and

WHEREAS, both parties desire to modify, as set forth herein, certain terms of the Lease.

NOW THEREFORE, in consideration of these presents, the parties hereby agree that the Lease is now modified as follows:

I. *This section may be redacted for recording purposes.* Effective the first day of the month following the First Amendment Effective Date, the Rent will be modified to One Thousand and 00/100 Dollars ($1,000.00) per month, any partial month to be prorated. There shall be no escalation or Adjusted Rent until March 15, 2027.

II. *This section may be redacted for recording purposes.* Effective March 15, 2027, Section 8. Adjusted Rent is hereby amended such that throughout the remainder of the duration of the Lease as renewed and extended, the Rent shall be increased by ten percent (10%) over the previous term's Rent. For clarity and avoidance of doubt, on March 15, 2027, and on the commencement of every Renewal Term thereafter, Rent shall increase by ten percent (10%) of the then-current Rent. There shall be no escalation or Adjusted Rent until March 15, 2027.

III. *This section may be redacted for recording purposes.* Tenant shall have the unreserved and unqualified right to sublet and/or license all or any portion of the Premises to subtenants without the necessity of obtaining Landlord's consent but upon reasonable notice to Landlord. Tenant represents and warrants that as of the First Amendment Effective Date, there are no subtenants on the Premises. Tenant shall pay a co-location fee ("Co-location Fee") equal to Two Hundred Fifty and 00/100 Dollars ($250.00) per month

per subtenant that is a FCC licensed provider of wireless voice services. The Co-location Fee will be due and payable to the Landlord upon the first full month after the commencement of a sublease or license between Tenant and subtenant and payable each month thereafter until the sublease or license expires or is terminated. Such Co-Location Fee shall only apply if rent/licensee fee is actually received by Tenant. The Co-location Fee shall not apply to (i) any governmental or public safety entity, wireless internet providers, paging companies, or (ii) any affiliate of Tenant or third party which acquires or acquired Tenant's wireless communications operations located at the Premises, including, in each case, their respective successors and assigns. Such Co-location Fee will be a separate payment not subject to any rent increase provided for in Section 8 of this Lease.

IV. The Premises, as defined in the Lease shall also include, that portion of the Property upon which any Improvements are located, or access is utilized by Tenant on the First Amendment Effective Date.

V. Tenant's Notice Address provided in the recital of the Lease is hereby deleted and replaced with the following Notice address:

California Rural Service Area #1, Inc.
Attention: Lease Administration
500 West Madison Street
Suite 810
Chicago, IL 60661

VI. Each party represents and warrants that it has full power and authority to enter into this First Amendment and that the person(s) executing this First Amendment on its behalf are duly authorized to do so.

VII. In all other respects the Lease is hereby ratified and affirmed without change.

[END OF AMENDMENT - SIGNATURE PAGE FOLLOWS]

Signature Page

IN WITNESS WHEREOF, the parties hereto bind themselves to this First Amendment as of the date of full execution.

LANDLORD:	TENANT:
City of Crescent City	California Rural Service Area #1, Inc., a California corporation
By: _____	By: _____
Printed: _____	Printed: Anthony Carlson
Title: _____	Title: President and CEO
Date: _____, 2026	Date: _____, 2026

LANDLORD:

ALL CAPACITY ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of _____

On _____, before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____

Signature of officer [SEAL]

TENANT:

STATE OF_____)
)
COUNTY OF _____)

I, the undersigned, a notary public in and for the State and County aforesaid, do hereby certify that Anthony Carlson, President and CEO for California Rural Service Area #1, Inc., a California corporation, known to me to be the same person whose name is subscribed to the foregoing First Amendment to Ground Lease, appeared before me this day in person and acknowledged that, pursuant to his authority, he signed the said First Amendment to Ground Lease as his free and voluntary act on behalf of the named Tenant, for the uses and purposes therein stated.

Given under my hand and seal this ____ day of _____, 2026.

_____
Notary Public

My commission expires_____

EXHIBIT A

Legal Description of Leasehold Parcel

APN #120-280-17 in Del Norte County, State of California. (This exhibit to be replaced with a survey and description of the site as soon as available)

GROUND LEASE

This Lease is made and entered into as of the 14th day of November, 2006, by and between **CITY OF CRESCENT CITY,** having an address at **377 "J" Street, Crescent City, California 95531,** hereinafter referred to as "Landlord," and **CALIFORNIA RURAL SERVICE AREA #1, INC., a California corporation,** having an address at Attention: Real Estate, 8410 West Bryn Mawr Avenue, Suite 700, Chicago, Illinois 60631, hereinafter referred to as "Tenant."

In consideration of the mutual promises, conditions, and other good and valuable consideration of the parties, it is agreed as follows:

1. Option to Lease. (a) Landlord hereby grants to Tenant an option (the "Option") to lease from Landlord the following described parcel (the "Leasehold Parcel"):

Approximate dimensions: ~~30' x 30'~~ 35' x 40' LB

Approximate acreage: .0206

Location: APN #120-280-17 in Del Norte County, State of California. This description of the Leasehold Parcel shall be superseded by a surveyed legal description that shall be attached to this lease as Exhibit "A."

(b) During the Initial Option Term (as defined below) and any extension, and during the term of this Lease, Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Leasehold Parcel to inspect, examine, conduct soil borings, drainage testing, material sampling, and other geological or engineering tests or studies of the Leasehold Parcel (collectively the "Tests"), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises (as hereinafter defined) and include without limitation applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively referred to as "Governmental Approvals"), and otherwise to do those things on or off the Leasehold Parcel that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Leasehold Parcel, the environmental history of the Leasehold Parcel, Landlord's title to the Leasehold Parcel, and the feasibility or suitability of the Leasehold Parcel for Tenant's Permitted Use (as hereinafter defined), all at Tenant's expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Leasehold Parcel, whether or not such defect or condition is disclosed by Tenant's inspection.

(c) In consideration of Landlord granting Tenant the Option, Tenant hereby agrees to pay Landlord the sum of $1,500.00 upon execution of this Lease by Landlord and Tenant. The Option will be for an initial term of eighteen months (the "Initial Option Term") and may be renewed by Tenant for an additional six months upon written notification to Landlord and the payment of an additional $1,500.00 no later than ten (10) days prior to the expiration date of the Initial Option Term.

(d) During the Initial Option Term and any extension, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option, then Landlord leases the Leasehold Parcel to the Tenant subject to the following terms and conditions.

2. Grant of Easements. Landlord hereby grants to Tenant an access easement 30 feet in width from the Leasehold Parcel to the nearest accessible public right-of-way (the "Access Easement") and a utility easement 10 feet in width to the nearest suitable utility company-approved service connection points (the "Utility Easement"); the Access Easement and the Utility Easement are collectively referred to herein as the "Easements"; the lands underlying the Access Easement and the Utility Easement are collectively referred to herein as the "Easement Parcels," which Easement Parcels are further described in Exhibit "A " attached hereto and incorporated herein). The Easements granted herein shall include, but not be limited to, (a) the right to clear vegetation, (b) the right to improve an access road within the Access Easement Parcel, (c) the right to place utility lines and related infrastructure within the Utility Easement Parcel, (d) the right to enter and temporarily rest upon Landlord's adjacent lands for the purposes of (i) installing, repairing, replacing and removing the Improvements (as defined below) and any other personal property of Tenant from the Leasehold Parcel and (ii) improving the Easement Parcels, including the right to bring in and use all necessary tools and machinery, and (e) the right of pedestrian and vehicular ingress and egress to and from the Leasehold Parcel at any time over and upon the Access Easement Parcel. The Leasehold Parcel and the Easement Parcels are collectively referred to herein as the "Premises." Landlord agrees to make such additional direct grants of easement as Tenant may request in order to further the purposes for which Tenant has been granted the easements set forth in this Section 2.

3. Use of the Premises. Tenant shall be entitled to use the Premises to construct, operate, modify as necessary, and maintain thereon a communications antenna tower (including aviation hazard lights when required), an access road, one or more equipment buildings, and a security fence, together with all necessary lines, anchors, connections, devices, and equipment for the transmission, reception, encryption, and translation of voice and data signals by means of radio frequency energy and landline carriage (collectively, the "Improvements"); Tenant's use described in this Section 3 is referred to as the ("Permitted Use"). Tenant shall have unlimited access to the Premises 24 hours per day, 7 days a week.

4. Term of Lease. In the event Tenant exercises the Option, the initial Lease term will be five (5) years (the "Initial Term"), commencing upon the Commencement Date (as defined below). The Initial Term will terminate on the last day of the month in which the fifth anniversary of the Commencement Date falls.

5. Option to Renew. The Initial Term of this Lease shall automatically extend for up to five additional terms of five years each, upon a continuation of all the same provisions hereof, unless Tenant gives Landlord written notice of Tenant's intention to terminate the Lease at least sixty (60) days before the expiration of the Initial Term (as same may have been extended in accordance with this Section 5).

6. Option to Terminate. Tenant shall have the unilateral right to terminate this Lease at any time by giving 30 days' prior written notice to Landlord.

7. Base Rent. Commencing on the date that Tenant commences construction (the "Commencement Date"), Tenant shall pay Base Rent to Landlord in the amount of $1,500.00 per month, the first payment of which shall be due within 30 days of the Commencement Date and installments thereafter on the first day of each calendar month. Landlord shall specify the name, address, and taxpayer identification number of a sole payee (or maximum two joint payees) who shall receive Base Rent on behalf of the Landlord. Base Rent will be prorated for any partial month.

8. Adjusted Base Rent. On the fifth anniversary of the Commencement Date and throughout the duration of the Lease as renewed and extended, the Base Rent shall be adjusted in proportion to the cumulative change in the latest published Consumer Price Index compared to the same index as historically recorded for the month and year in which the Initial Term of this Lease commenced. "Consumer Price Index" shall mean the Consumer Price Index for All Urban Consumers, All Items, U.S. City Average, 1982-84 = 100 (U.S. Department of Labor, Bureau of Labor Statistics). If the said Consumer Price Index ceases to be published, then a reasonably comparable index shall be used.

9. Utilities. Tenant shall solely and independently be responsible for all costs of providing utilities to the Premises, including the separate metering, billing, and payment of utility services consumed by Tenant's operations.

10. Property Taxes. Except as otherwise set forth herein, Landlord shall be responsible for payment of real property taxes related to Landlord's property of which the Leasehold Parcel is a part ("Landlord's Parcel"). Tenant shall be responsible for the real estate taxes levied against the Leasehold Parcel and for payment of all personal property taxes, where applicable, levied against Tenant's tangible personal property located on the Leasehold Parcel.

(a) If the real property tax assessment classification of Landlord's Parcel changes as a result of Tenant's use, then Tenant shall reimburse Landlord for real property tax increases attributable to such commercial use. In the absence of any definitive calculations of such increases in values, increases in the real property values reflected in Landlord's real property tax bill received after the first assessment date following Tenant's completion of construction shall be deemed to best approximate the tax impact attributable to Tenant.

(b) If the Leasehold Parcel is eligible for a separate assessor's parcel number, the real property tax bill for the Leasehold Parcel shall be sent directly to and shall be paid by Tenant. If the Leasehold Parcel is not eligible for a separate assessor's parcel number, Landlord shall be responsible for payment of real property taxes related to Leasehold Parcel. Tenant shall reimburse Landlord for Tenant's proportionate share of such real property taxes paid by Landlord. Tenant's proportionate share shall be determined as the square footage of Leasehold Parcel, divided by the square footage of Landlord's Parcel, times total real property tax attributable to the land contained in Landlord's Parcel.

(c) Tenant shall reimburse Landlord for Tenant's share of the real property taxes related to the Landlord's Parcel or to the Leasehold Parcel, as determined in paragraph (a) or (b) of this section, following Landlord's demand thereof. Landlord's requests to Tenant for reimbursement of such real property taxes should be addressed to:

U. S. Cellular,
P.O. Box 31369,
Chicago, IL 60631-0369

A copy of Landlord's real property tax bill and a paid tax receipt must accompany all Landlord's requests to Tenant for reimbursement of such real property taxes. Tenant shall only be responsible for real property tax reimbursements requested within one year of payment of such real property taxes by Landlord. Tenant shall comply with valid requests for reimbursement to Landlord by utilizing the same payment method utilized for rent payments related to this lease.

(d) In order to ensure that Tenant's leasehold interest is not extinguished in the event that the real property taxes related to Landlord's Parcel become delinquent, Tenant shall have the right, but not the obligation, to pay delinquent real property taxes related to Landlord's Parcel. Tenant shall be entitled to take a credit against Base Rent under this lease for any such taxes paid by Tenant that exceed Tenant's proportionate share thereof, as determined in paragraph (a) or (b) of this section.

11. Repairs and Maintenance. Tenant shall be responsible for all repairs and maintenance of the Improvements, and may at its own expense alter or modify the Improvements to suit its needs consistent with the intended use of the Premises.

12. Mutual Indemnification. Each Party shall, to the fullest extent permitted by law, indemnify, defend and hold harmless the other Party, against all claims, losses, costs, expenses, damages, and liabilities arising from: (i) the negligence, willful misconduct or strict liability of such Party, or its agents, employees, or contractors; or (ii) any material breach by such Party of any provision of this Agreement. Neither Party shall be responsible or liable to the other for any claim, loss, cost, expense, damage or liability arising from any claim to the extent attributable to any acts or omissions of the other Party.

13. Insurance. Tenant shall continuously maintain in full force and effect a policy of commercial general liability insurance with limits of One Million Dollars covering Tenant's work and operations upon Landlord's Parcel.

14. Monetary Default. Tenant shall be in default under this Lease if Tenant fails to make a payment of Base Rent when due and such failure continues for fifteen (15) days after Landlord notifies Tenant in writing of such failure.

15. Opportunity to Cure Non-Monetary Defaults. If Landlord or Tenant fails to comply with any non-monetary provision of this Lease, the other party shall serve written notice of such failure upon the defaulting party, whereupon a grace period of 30 days shall commence to run during which the defaulting party shall undertake and diligently pursue a cure of such failure. Such grace period shall automatically be extended for an additional 90 days, provided the defaulting party makes a good faith showing that efforts toward a cure are continuing.

16. Assignment of Lease by Tenant. This Lease shall be freely assignable by the Tenant to any other party without the necessity of obtaining Landlord's consent. Tenant's right to effect an outright transfer of the Lease, and the right of any collateral assignee to seize the

Premises as defaulted security, is subject only to the limitation that the Premises shall be used for the purposes permitted herein. Tenant shall notify Landlord in writing of the name and address of any assignee or collateral assignee.

17. Subleasing. Tenant shall have the unreserved and unqualified right to sublet all or any portion of the Premises to subtenants without the necessity of obtaining Landlord's consent.

18. Execution of Other Instruments. Landlord agrees to execute, acknowledge, and deliver to Tenant such other instruments respecting the Premises as Tenant or Tenant's lender may reasonably request from time to time. Such instruments may include a memorandum of lease that may be recorded in the appropriate local land records. Landlord also agrees to cooperate with Tenant's efforts to obtain all private and public consents related to Tenant's use of the Premises.

19. Removal of Improvements. The Improvements are agreed to be Tenant's personal property and shall never be considered fixtures to the Premises. Tenant shall at all times be authorized to remove the Improvements from the Premises. Upon the expiration or earlier termination of this Lease, Tenant shall remove the above ground improvements from the Premises within 120 days. Tenant shall be entitled to abandon, in place, all footings, foundations and other below ground improvements.

20. Quiet Enjoyment. Landlord covenants that Tenant shall have quiet and peaceable possession of the Premises throughout the Initial Lease Term as the same may be extended, and that Landlord will not intentionally disturb Tenant's enjoyment thereof as long as Tenant is not in default under this Lease.

21. Subordination and Non-Disturbance. Tenant agrees to subordinate this Lease to any mortgage or trust deed which may hereafter be placed on the Premises, provided the mortgagee or trustee thereunder shall ensure to Tenant the right to possession of the Premises and other rights granted to Tenant herein so long as Tenant is not in default beyond any applicable grace or cure period, such assurance to be in writing and otherwise in form and substance reasonably satisfactory to Tenant. If requested by Tenant, Landlord agrees to use Landlord's best efforts to assist Tenant in obtaining from any holder of a security interest in Landlord's Parcel a non-disturbance agreement in form and substance reasonably satisfactory to Tenant.

22. Environmental Warranty. Landlord hereby represents and warrants to Tenant that Landlord has never generated, stored, handled, or disposed of any hazardous waste or hazardous substance upon the Premises, and that Landlord has no knowledge of such uses historically having been made of the Premises or such substances historically having been introduced thereon.

23. Attorneys' Fees. In any action on this Lease at law or in equity, the prevailing party shall be entitled to recover from the other party the reasonable costs incurred by such party in such action, including reasonable attorneys' fees and costs of appeal.

24. Binding Effect. All of the covenants, conditions, and provisions of this Lease shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns.

25. Entire Agreement. This Lease constitutes the entire agreement between the parties and supersedes any prior understandings or oral or written agreements between the parties respecting the within subject matter. Venue for any disputes regarding this agreement will specifically be heard in Del Norte County Superior Court.

26. Modifications. This Lease may not be modified, except in writing signed by both parties.

27. Non-Binding Until Full Execution. Both parties agree that this Lease is not binding on both parties until both parties execute the Lease.

[SIGNATURE PAGE FOLLOWS]

Signature Page

IN WITNESS WHEREOF, the parties hereto bind themselves to this Ground Lease as of the day and year first above written.

LANDLORD:

CITY OF CRESCENT CITY

By: _____

(printed) Eli Naffah

Social Security # (or FEIN)
94-6000552

Telephone Contact # 7074647483

TENANT:

CALIFORNIA RURAL SERVICE AREA #1, INC., a California corporation,

By: _____

Printed: James L. Jenkins

Title: VP

STATE OF CALIFORNIA)
) SS
COUNTY OF DEL NORTE)

On 11-21-06, before me, L. DIANNE NICKERSON, personally appeared ELI NAFFAH, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) (is) (are) subscribed to the within instrument and acknowledged to me that (he) (she) (they) executed the same in (his) (her) (their) authorized capacity(ies), and that by (his) (her) (their) signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature L. Dianne Nickerson

My Commission Expires: 8-5-2007

L. DIANNE NICKERSON
Commission # 1433730
Notary Public - California
Del Norte County
My Comm. Expires Aug 5, 2007

Notary Name: L. DIANNE NICKERSON
Notary Registration Number: 1433730

STATE OF ILLINOIS)
)
COUNTY OF COOK)

I, the undersigned, a notary public in and for the State and County aforesaid, do hereby certify that JAMES R. JENKINS, Vice President, for California Rural Service Area #1, Inc., known to me to be the same person whose name is subscribed to the foregoing Ground Lease, appeared before me this day in person and acknowledged that, pursuant to his authority, he signed the said Lease as his free and voluntary act on behalf of the named Tenant corporation, for the uses and purposes therein stated.

Given under my hand and seal this 13th day of October, 2006.

Donald R Dike

Notary Public

"OFFICIAL SEAL"
DONALD L. DIOKE
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 8/23/2007

My commission expires 8/23/07

Exhibit A

Legal Description of Leasehold Parcel

APN #120-280-17 in Del Norte County, State of California. (This exhibit to be replaced with a survey and description of the site as soon as available)

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **MARTHA D. RICE, CITY ATTORNEY**

DATE: **JUNE 15, 2026**

SUBJECT: **CIVICA LAW GROUP CONTRACT AMENDMENT NO. 6**

RECOMMENDATION

- Approve and authorize the City Manager to sign Amendment No. 6 to the Legal Services Agreement with Civica Law Group

BACKGROUND

The City entered into a contract with Civica Law Group in 2023 for code enforcement / nuisance abatement legal services. The City has been working with Civica Law Group's managing partner Matthew Silver since 2013. Nuisance abatement using the Health & Safety Code receivership process is time-consuming and labor-intensive work. Mr. Silver and his team have become experts in the field. Civica Law Group is currently representing the City in the following matters: nuisance abatement court receivership cases for 200 A Street and 1430 Margie Street; nonjudicial nuisance abatement and compliance for 120 W Coolidge Ave, and a building permit dispute that has turned into a lawsuit (city attorney has a conflict of interest due to the location of the subject property).

ITEM ANALYSIS

The contract with Civica Law Group provides an annual budget of $60,000, unless otherwise authorized and amended by the City Council. The current budget and contract authorized $111,000 for FY 25-26. During the midyear budget process, the Council authorized a budget of $122,000 for this fiscal year based on projected level of effort on open cases. We now need to amend the contract to reflect that same amount.

Additionally, the FY 26-27 budget includes only $56,000 for Civica Law Group due to budgetary constraints. Due to this limited budget, the City will not be able to initiate any new major nuisance abatement / code enforcement cases in FY 26-27. If the City receives reimbursement for expenses for either the 200 A Street or 1430 Margie Street cases, then additional enforcement actions could possibly begin. However, the timing of those receipts is highly speculative.

FISCAL ANALYSIS

The FY 2025-26 authorized amount was added to the FY 2025-26 budget at midyear. The FY 2026-27 authorized amount is included in the FY 2026-27 budget. The City will seek recovery of expenses from the responsible parties.

STRATEGIC PLAN ANALYSIS

This item is consistent with the following strategic plan goals:

- Goal 1: Support Quality Services, Community Safety, and Health to Enhance the Quality of Life and Experience of Our Resident and Visitors

ATTACHMENTS

1. Amendment No. 6 to Civica Law Group legal services agreement

AMENDMENT NO. 6 TO AGREEMENT BETWEEN CIVICA LAW GROUP, APC AND THE CITY OF CRESCENT CITY FOR SPECIAL COUNSEL LEGAL SERVICES

This Amendment No. 6 to the Agreement between Civica Law Group, APC and the City of Crescent City for Special Counsel Legal Services is entered into and made effective June 15, 2026 for the purpose of amending the terms of compensation.

WHEREAS, the parties entered into the original legal services agreement on March 1, 2023; and

WHEREAS, the original agreement, as amended, provides for an annual budget of $60,000 for legal services that renews each fiscal year; and

WHEREAS, the City's current code enforcement efforts require a higher level of effort than the annual standard budget allows; and

WHEREAS, budgetary restraints for FY 2026-2027 require a lesser amount than the annual standard budget.

NOW, THEREFORE, for valuable consideration, the receipt of which is hereby acknowledged, the parties agree to the following amendment to the Agreement.

1. COMPENSATION. Paragraph 3.3 is amended so that the total authorized budget for FY 25-26 is one hundred twenty-two thousand dollars ($122,000) and (2) the total authorized budget for FY 26-27 is fifty-six thousand dollars ($56,000).

2. OTHER TERMS. All other terms and conditions of the Agreement for Special Counsel Legal Services, as amended, remain in full force and effect and are unchanged by this Amendment No. 6.

3. COUNTERPARTS/SIGNATURES. Each party agrees that this Amendment may be electronically signed, and that any electronic signatures appearing on this Amendment are the same as handwritten signatures for the purposes of validity, enforceability, and admissibility. This Amendment may be signed in counterparts, each of which shall constitute an original.

CITY OF CRESCENT CITY

_____

By: Eric Wier, City Manager

CIVICA LAW GROUP, APC



_____

By: Matthew Silver, Esq., Managing Partner

Approved as to form:

_____

Martha D. Rice, City Attorney

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **BRIDGET LACEY, GRANTS AND ECONOMIC DEVELOPMENT MANAGER**

DATE: **JUNE 15, 2026**

SUBJECT: **LETTER OF SUPPORT FOR DEL NORTE MEAT PROCESSING FACILITY**

RECOMMENDATION

- Approve a Letter to USDA from the City Council endorsing the Del Norte Meat Processing Facility

BACKGROUND

True North Organizing Network is pursuing funding through the USDA Rural Business Development Grant (RBDG) program to support the development of a meat processing facility that will serve local agricultural producers, ranchers, and small businesses throughout Del Norte County and the surrounding region.

Limited access to meat processing services remains a significant challenge for many livestock producers in rural Northern California. Existing facilities are often located several hours away, resulting in increased transportation costs, scheduling delays, and barriers to expanding local agricultural operations. The proposed facility would help address these challenges by increasing local processing capacity and creating new opportunities for agricultural producers to access markets and grow their businesses.

In 2025, True North Organizing Network received $500,000 in grant funding through the California Jobs First initiative to complete a feasibility study for the project. The study determined that the project is financially viable and identified sufficient regional demand to support a USDA-inspected processing facility.

The USDA Rural Business Development Grant Program provides funding for projects that support economic development, job creation, and business growth in rural communities. As part of the application process, True North has requested a letter of support from the City of Crescent City.

ITEM ANALYSIS

The Del Norte Meat Processing project responds to the closure of Redwood Meat Company in Eureka in July 2024, which eliminated the only publicly accessible USDA-approved meat processing facility serving much of the region. As a result, livestock producers now travel more than 160 miles for processing, significantly increasing costs and creating barriers to agricultural business growth and sustainability.

The feasibility study which was completed in 2025 determined that the facility could process approximately 1,320 cattle, 420 hogs, and 3,600 poultry annually once fully operational. The facility is expected to create at least five permanent full-time jobs and generate approximately $1.5 million in annual gross revenue by year four of operations. By restoring access to local meat processing services and reducing transportation distances by approximately 60 to 150 miles per trip, the project will directly support an estimated 85 animal production and aquaculture businesses employing 419 workers throughout the Redwood Region.

The total project cost for the predevelopment and construction of the facility is approximately $14 million. The USDA Rural Business Development Grant application will be for $350,000 and will support planning, engineering, design, permitting, and other predevelopment activities necessary to establish a USDA-inspected regional meat processing facility serving Del Norte County and the broader North Coast region. Completion of these predevelopment activities will position the project to pursue approximately $8.8 million in USDA-backed permanent financing and additional public and private investment necessary for facility construction.

True North Organizing Network will serve as the applicant for the USDA Rural Business Development grant and the Hmong Association will serve as a development partner, as they will ultimately own and operate the facility once the project is completed. True North has also partnered with Nichols, Melburg & Rossetto Architects for architectural and engineering services, Plan F Solutions as a business development partner, and Finnegan Real Estate to assist with site acquisition and development.

The anticipated project timeline is as follows:

June 2026 – RBDG Application Submission

Fall 2026 – Anticipated Grant Award

October 2026 – September 2027 – Engineering, permitting, business development, and construction readiness activities

2027–2028 – Financing, final approvals, and construction

2028 – Facility opening and commencement of operations

FISCAL ANALYSIS

There is no fiscal impact associated with approving the letter of support for this project. The project will be funded thought external grant sources if awarded.

STRATEGIC PLAN ASSESSMENT

This action is consistent with the following 2016 Strategic Plan Goals:

- Goal 1(E): Target economic development improvements that provide additional benefit by enhancing the quality of life for residents
- Goal 2(D): Collaborate with other jurisdictions and nonprofits to maximize regional effectiveness and amplify funding opportunities
- Goal 2(E): Create an environment that is conducive to attracting and retaining strong, sustainable businesses that reflect community needs and culture
- Goal 2(F)(9): Expand on the success of grant funding by maximizing utilization of opportunities with corresponding community needs

ATTACHMENTS

1. Draft Letter of Support

City of Crescent City
Where the Redwoods Meet the Sea
377 J Street, Crescent City, CA 95531 • 707.464.7483 • Fax 707.465.4405 • www.crescentcity.org

June 15, 2026

USDA Rural Development
Rural Business Development Grant Program

RE: Del Norte County Meat Processing Facility

To Whom It May Concern:

On behalf of the City of Crescent City, I am pleased to provide this letter of support for True North Organizing Network's application to the USDA Rural Business Development Grant (RBDG) Program for the Del Norte County Meat Processing Facility.

This project represents a significant Industrial Site Development and Business Development initiative that will strengthen agricultural infrastructure, support small and emerging rural businesses, and enhance economic resilience throughout Del Norte County and California's North Coast.

The closure of Redwood Meat Company in 2024 created a substantial challenge for local livestock producers by eliminating the only publicly accessible USDA-inspected meat processing facility serving much of the region. Producers are now required to transport animals more than 160 miles for processing, increasing costs and creating barriers to agricultural business growth and sustainability.

The proposed facility will help restore essential processing capacity while supporting approximately 85 animal production and aquaculture businesses operating throughout the Redwood Region. Once operational, the facility is projected to process approximately 1,320 cattle, 420 hogs, and 3,600 poultry annually, create at least five permanent full-time jobs, and generate approximately $1.5 million in annual revenue. The project will also support the continued growth of regenerative agriculture and livestock production within Del Norte County.

The City recognizes the strong partnership behind this effort. True North Organizing Network is serving as lead applicant and project manager, working closely with the Hmong Association of Crescent City, which intends to become the long-term owner and operator of the facility. Together, these organizations are advancing a project that will provide lasting economic and community benefits.

The project has already demonstrated significant momentum through completion of a professional feasibility study, receipt of a $500,000 California Jobs First Catalyst Grant, engagement of qualified architectural and engineering professionals, and ongoing site acquisition efforts.

The City of Crescent City strongly supports this application and believes the project aligns closely with the goals of the USDA Rural Business Development Grant Program by supporting rural business development, job creation, agricultural sustainability, and long-term economic opportunity.

Thank you for your consideration of this important project.

On behalf of the City Council,

Isaiah Wright, Mayor
City of Crescent City

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER CITY MANAGER**

BY: **DAVID YEAGER, DIRECTOR OF PUBLIC WORKS**
ORRIN PLOCHER, FRESHWATER ENVIRONMENTAL

DATE: **JUNE 15, 2026**

SUBJECT: **2026 ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT**

RECOMMENDATION

- Receive and approve the 2026 Annual Water Supply and Demand Assessment

BACKGROUND

According to the California Water Code 10632.1, "[a]n urban water supplier shall conduct an annual water supply and demand assessment pursuant to subdivision (a) of Section 10632 and, on or before July 1 of each year, submit an annual water shortage assessment report to the department with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the supplier's water shortage contingency plan."

The City Water Shortage Contingency Plan (WSCP) includes the method and annual schedule for completing the Annual Water Supply Demand Assessment (AWSDA). The WSCP indicates that:

- The results of the Annual Assessment will be communicated to the Public Works Director and the City Manager, and
- The City Manager will report the findings of the Annual Assessment to the City Council before the end of June. The City Manager may recommend a water shortage emergency resolution to the city council if warranted.

ITEM ANALYSIS

The 2026 Annual Water Supply and Demand Assessment (attached) concluded that based on the analysis of local precipitation trends, Smith River discharge trends, groundwater elevation trends, observations from the City's Ranney Collector Well, and documented sustainability of the Smith River Groundwater Basin, the water supply will likely meet the projected demand over the next 24-months.

FISCAL IMPACT

There is no fiscal impact from the delivery of this report.

ATTACHMENTS

1. Annual Water Supply and Demand Assessment (2026)

2026 ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT

FOR

CRESCENT CITY, CALIFORNIA

DRAFT

Prepared for:

The City of Crescent City
Crescent City, California 95531

June 2026

Prepared by:
Orrin Plocher

Freshwater Environmental Services

78 Sunny Brae Center
Arcata, California 95521
Phone (707) 839-0091

TABLE OF CONTENTS

LIST OF APPENDICES iii

1.0 INTRODUCTION 1

1.1 Decision Making Process 1

1.2 Data and Methodologies 2

2.0 PRECIPITATION 3

3.0 SMITH RIVER DISCHARGE 4

3.1 Smith River – Median Discharge Pattern 6

4.0 GROUNDWATER OBSERVATIONS 7

5.0 SMITH RIVER GROUNDWATER BASIN 12

6.0 CITY RANNEY COLLECTOR WELL OBSERVATIONS 15

7.0 INFRASTRUCTURE CAPABILITIES AND PLAUSIBLE CONSTRAINTS 16

8.0 PROJECTED WATER DEMAND AND SUPPLY 17

9.0 CONCLUSIONS 18

DRAFT

LIST OF APPENDICES

APPENDIX A Annual Water Supply and Demand Assessment Reporting Tables

DRAFT

1.0 INTRODUCTION

The City of Crescent City's (City's) 2026 Annual Water Supply and Demand Assessment is intended to meet the requirements established in Water Code Section 10632(a)(2) which includes the following minimum procedures:

- The written decision-making process that an urban water supplier will use each year to determine its water supply reliability.
- The key data inputs and assessment methodology used to evaluate the urban water supplier's water supply reliability for the current year and one dry year, including all of the following:
    - (i) Current year unconstrained demand, considering weather, growth, and other influencing factors, such as policies to manage current supplies to meet demand objectives in future years, as applicable.
    - (ii) Current year available supply, considering hydrological and regulatory conditions in the current year and one dry year. The annual supply and demand assessment may consider more than one dry year solely at the discretion of the urban water supplier.
    - (iii) Existing infrastructure capabilities and plausible constraints.
    - (iv) A defined set of locally applicable evaluation criteria that are consistently relied upon for each annual water supply and demand assessment.
    - (v) A description and quantification of each source of water supply. Water Code Section 10632.1

1.1 Decision Making Process

The City's Annual Water Supply and Demand Assessment will follow the approximate schedule listed below:

- Second week of May – Data collection, precipitation data, Smith River discharge data, groundwater elevation data from CASGEM well(s), and water elevation data from the City's Ranney collector well.
- Third week of May – Data evaluation. Determine current year unconstrained demand, current year available supply, identify existing infrastructure capabilities and plausible constraints, and generate the Draft-Annual Water Supply and Demand Assessment.
- Fourth week of May – Annual Water Supply and Demand Assessment reviewed by Public Works Director and City Manager and finalized.
- First week in June – Notice of public meeting.
- Third week in June – Report presented to City Council.
- July 1 – Annual Water Supply and Demand Assessment provided to the Department of Water Resources.

DRAFT

1.2 Data and Methodologies

Crescent City has prepared the 2026 Annual Water Supply and Demand Assessments utilizing the following data:

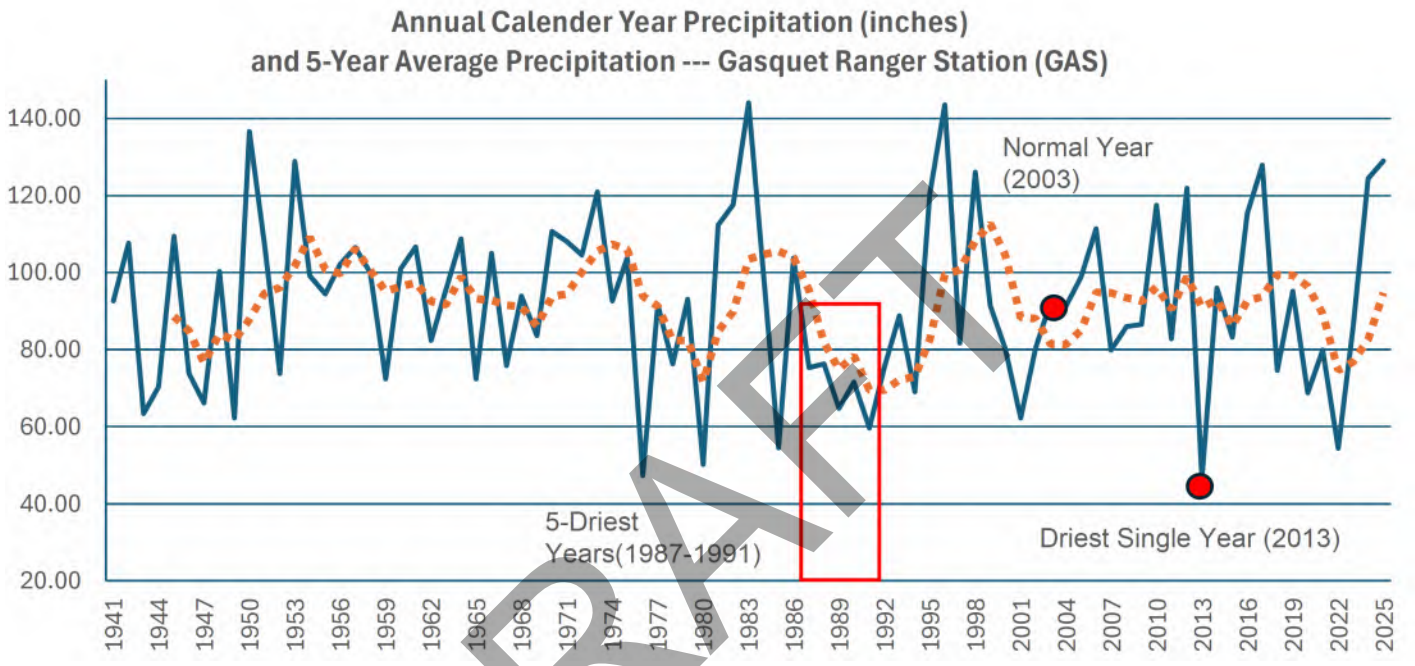
- Precipitation data from the Gasquet Ranger Station (GAS).
  https://cdec.water.ca.gov/dynamicapp/staMeta?station_id=GAS
- Discharge data from the Smith River (USGS gauging station 11532500). *https://waterdata.usgs.gov/nwis/uv?11532500*
- Groundwater elevation data from CASGEM wells within the Smith River Plain Groundwater Basin.
  https://www.casgem.water.ca.gov/OSS/(S(z5rtdpg2arwitxj1fodm0s5m))/Default.aspx?ReturnUrl=%2fOSS%2f
- Projected current year unconstrained demand.
- Projected current year available supply.

The above data was evaluated with similar methodologies and added to the analysis of water supply reliability contained in the Crescent City Water Shortage Contingency Plan (FES, June 2021).

DRAFT

2.0 PRECIPITATION

Precipitation data was retrieved from the Gasquet Ranger Station (GAS). The Gasquet Ranger Station was selected due to its near proximity to the City's Ranney Collector Well and range of continuous precipitation data (1949 through 2026). The lowest annual precipitation occurred in 2013 (46.50 inches). The driest 5-years were between 1987 and 1991. Total annual (calendar year) precipitation and 5-year average precipitation data are shown below.

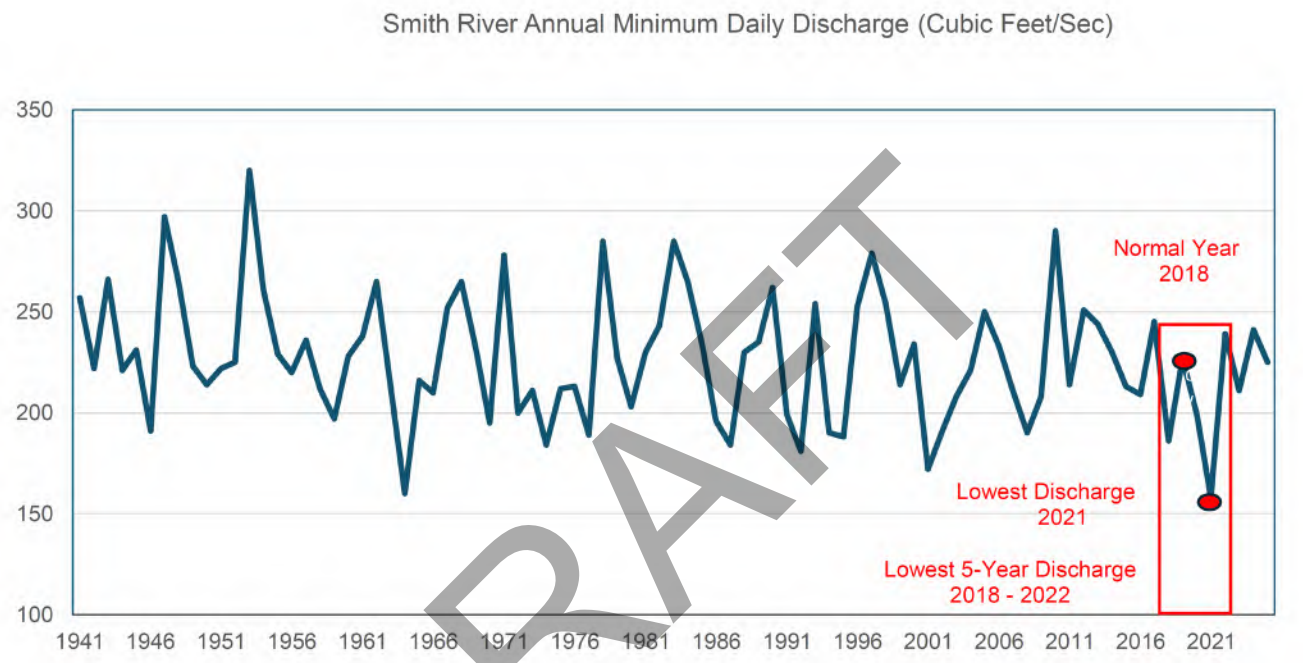


The two time periods shown above are historical examples of extreme dry conditions and were used for detailed comparison to Smith River discharge, CASGEM groundwater well elevations, and recent conditions at the City's Ranney Collector Well.

DRAFT

3.0 SMITH RIVER DISCHARGE

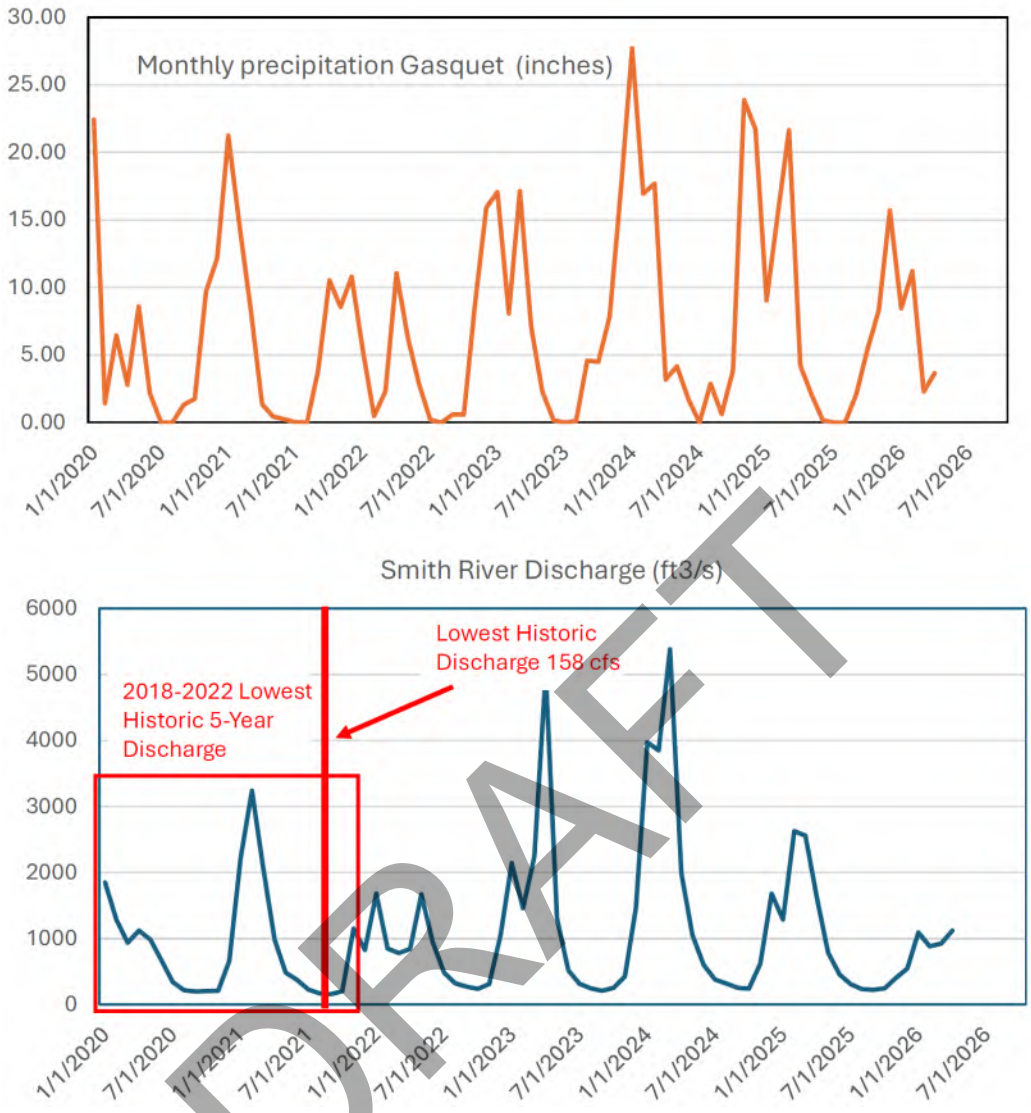
Previous investigations have found that the Smith River discharge and corresponding gauge height elevation is correlated to the water levels observed in the City's Ranney Collector Well under static (non-pumping) conditions. This is due to the proximity of the well to the river. Examination of Smith River discharge trends during the two identified extreme dry periods is used as a proxy for conditions in the Ranney Collector Well since data collection of water levels from the Ranney Collector Well began in 2019.



DRAFT

The historic lowest Smith River discharge was in September 2021. The lowest 5-year average discharge was from 2018-2022. Although the lowest discharge does not correspond with the lowest annual precipitation, it does follow 5 consecutive years with below normal and decreasing precipitation (2018-2022). This demonstrates that the Smith River discharge trends are the result of multiyear precipitation trends and not significantly affected by single year precipitation events.

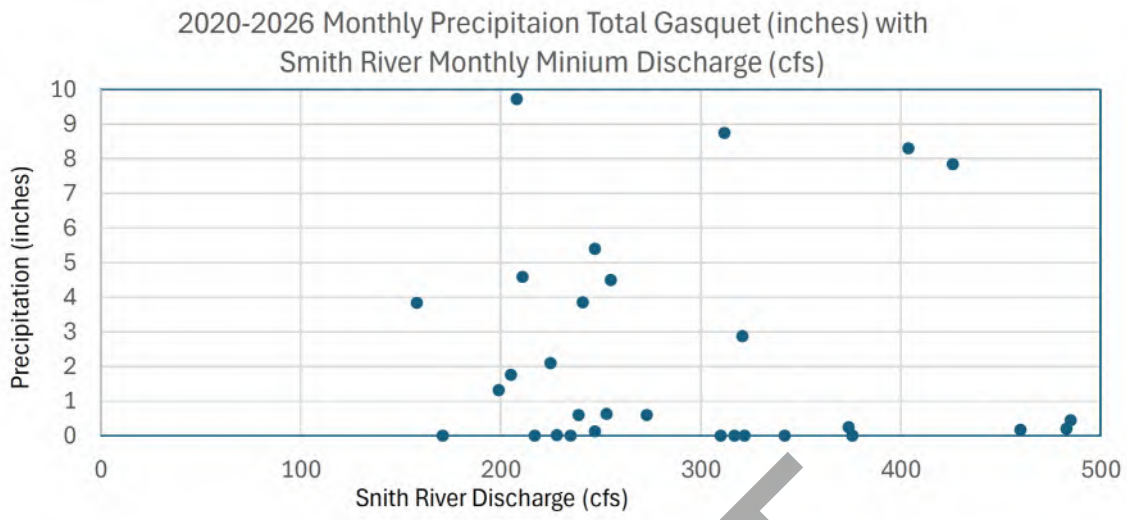
Monthly precipitation (Gasquet) and Smith River minimum discharge are shown in the graphs below for the period 2020 through 2026 which contains the lowest minimum Smith River discharge (September 2021).



DRAFT

Monthly precipitation from 2024 through 2026 shows annual decreasing trend from 2024 to 2026. This cumulative decreasing precipitation trend is reflected in the 2026 Smith River Discharge which has a greatly diminished wet season discharge pattern compared to previous years.

The scatter plot below shows monthly precipitation and minimum monthly discharge over the recent period 2020 through 2026 (limited to <10 inches precipitation, and <500 cfs discharge) which includes the period of lowest Smith River discharge (September 2021, 158 cfs).



Current data shown above, and historic data show that during periods of low or no precipitation the minimum Smith River discharge has not fallen below 158 cfs.

In the period of 2020 thru 2026, as precipitation totals approach zero inches per month, the influence of the surrounding groundwater basin "feeding" the Smith River is apparent, resulting in a "resistance", keeping the discharge from falling below approximately 158 cfs.

3.1 Smith River – Median Discharge Pattern

The USGS has calculated a median discharge for the recorded Smith River discharge. The plots below show actual Smith River discharge (cfs) and median discharge (92 years of observations) for the period 2020 through 2026 which included the lowest historic Smith River discharge (Sept 2021).

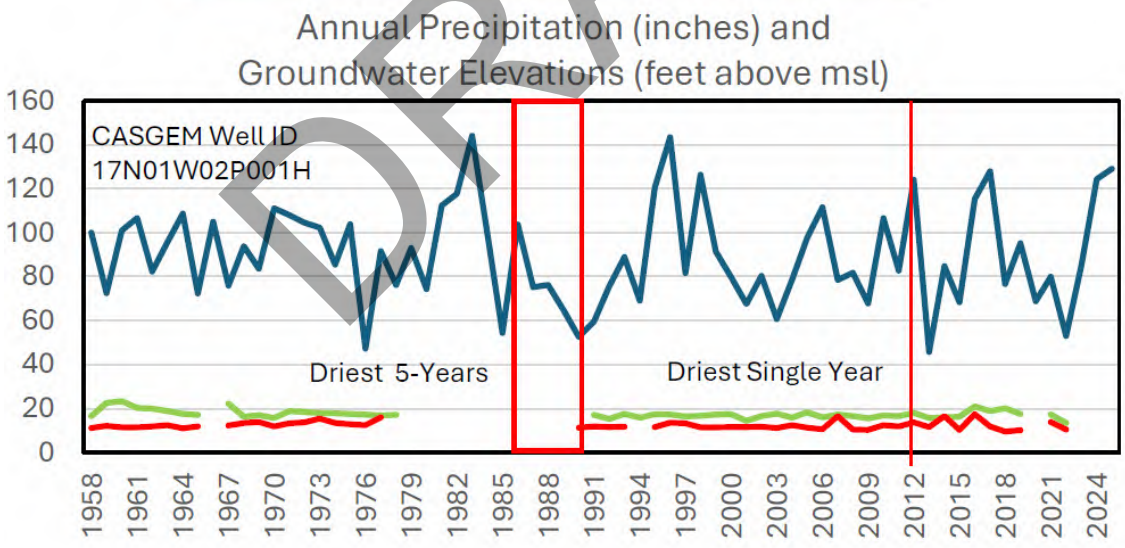
DRAFT

4.0 GROUNDWATER OBSERVATIONS

Groundwater elevation data was obtained and analyzed from CASGEM monitored groundwater wells located in the Smith River groundwater plain downstream from the City's Ranney Collector Well, but with a similar proximity to the Smith River.

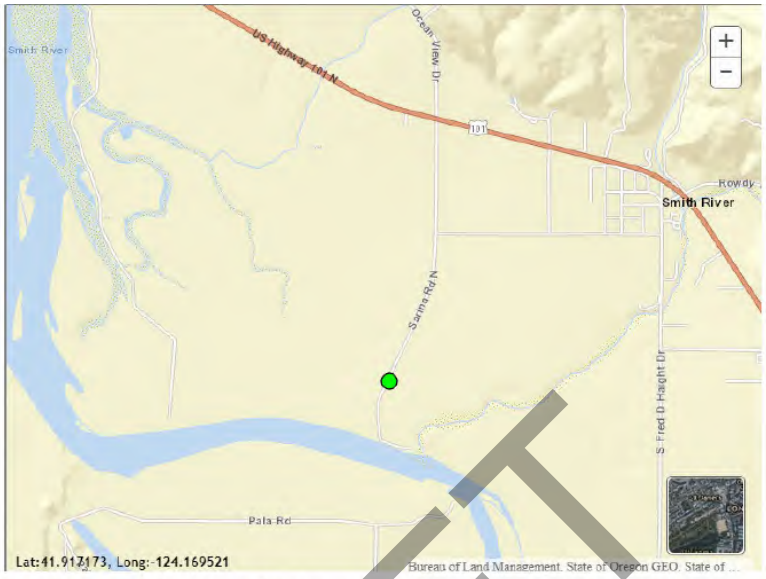
Below is a plot of high and low groundwater elevations in feet msl for the period 1953 through 2026.

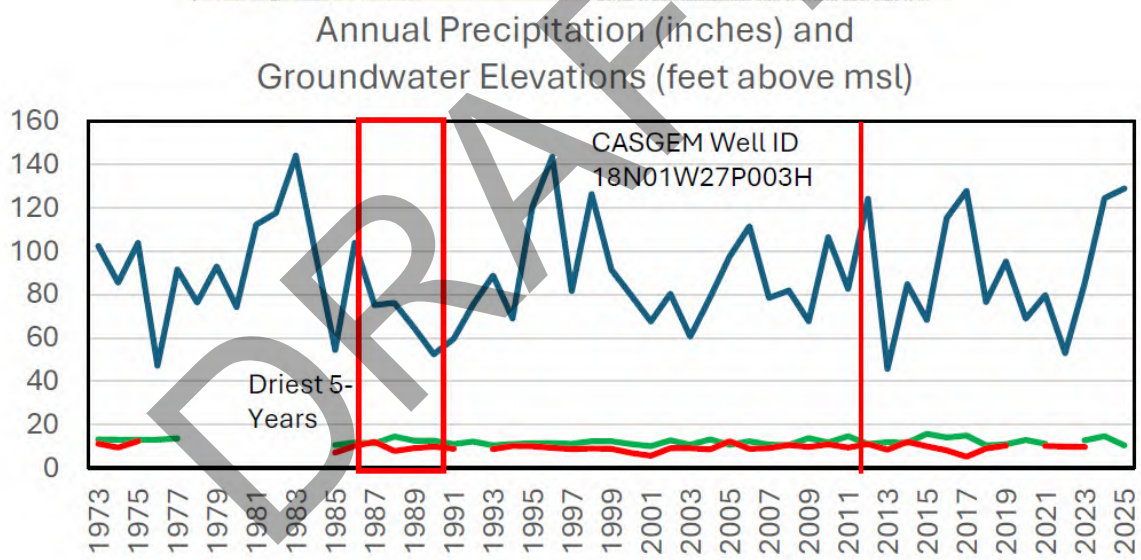




DRAFT

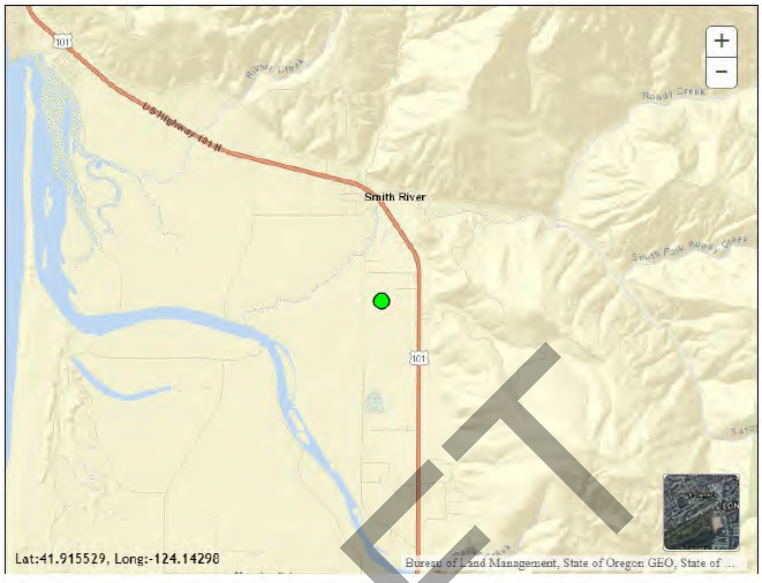
Below is a plot of high and low groundwater elevations in feet msl for the period 1973 through 2026.

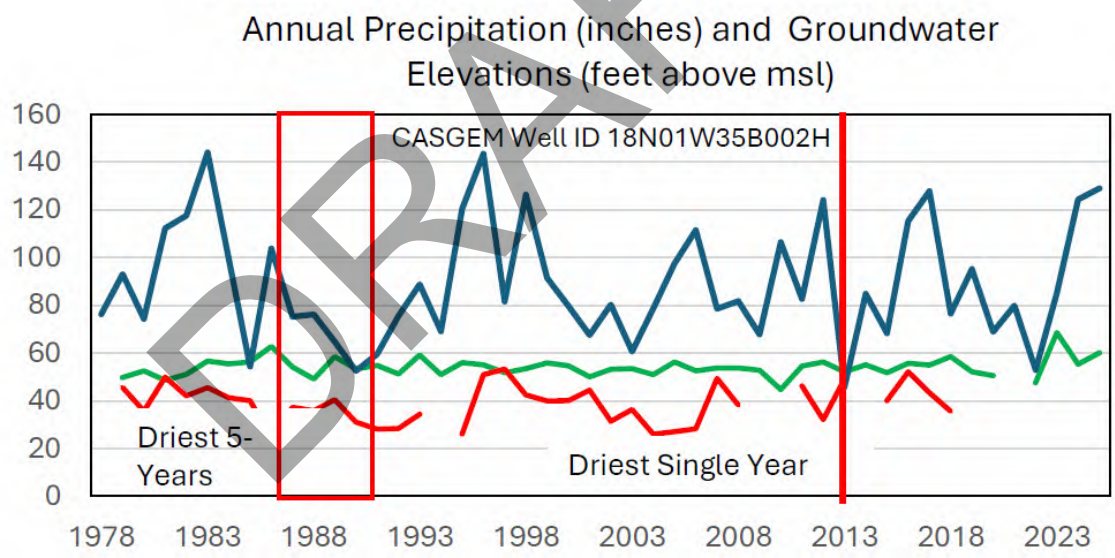




DRAFT

Below is a plot of high and low groundwater elevations in feet msl for the period 1978 through 2025.

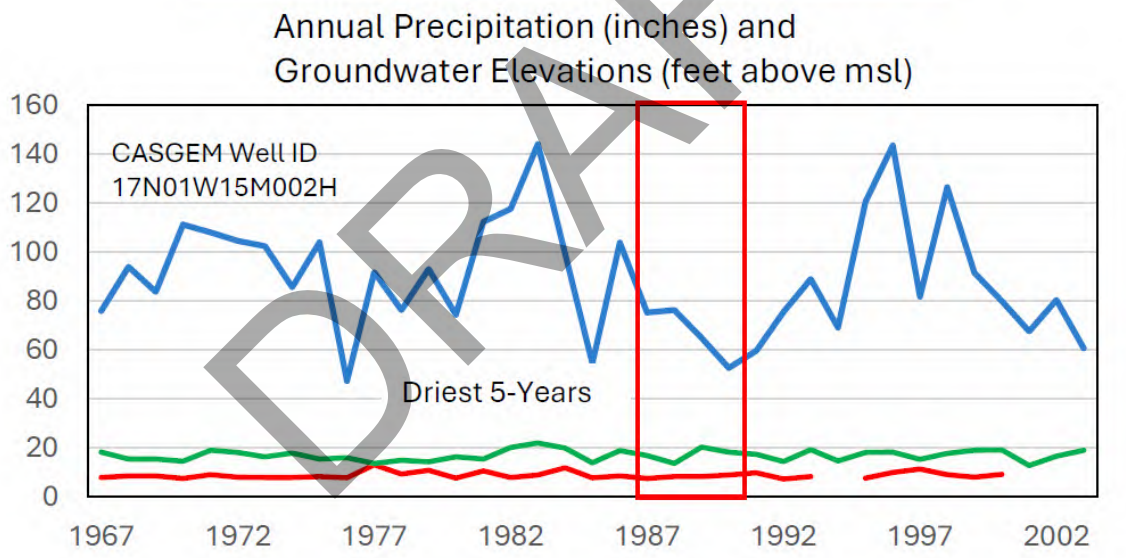




DRAFT

Below is a plot of high and low groundwater elevations in feet msl for the period 1967 through 2003.

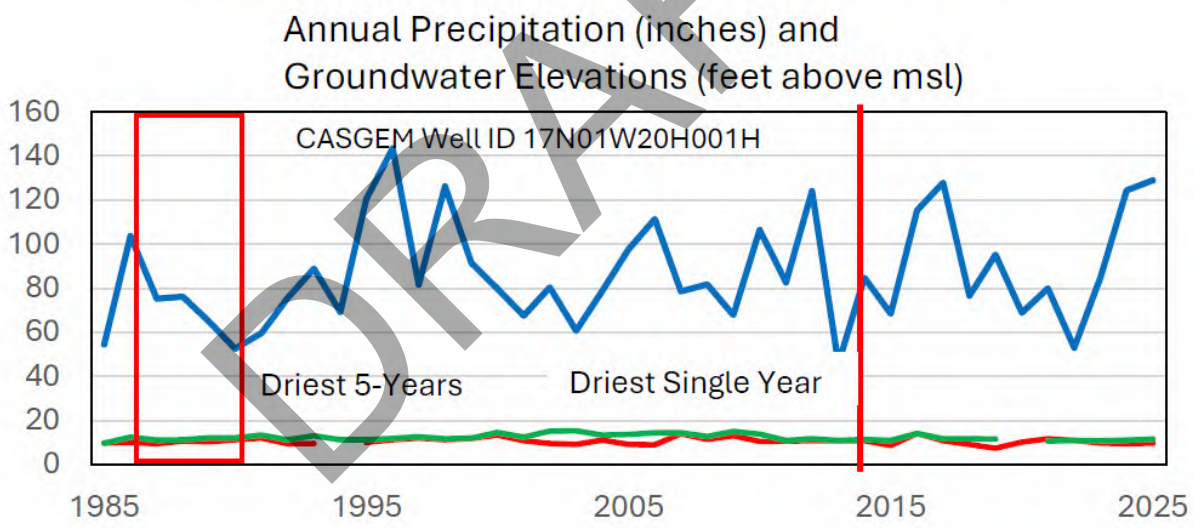




DRAFT

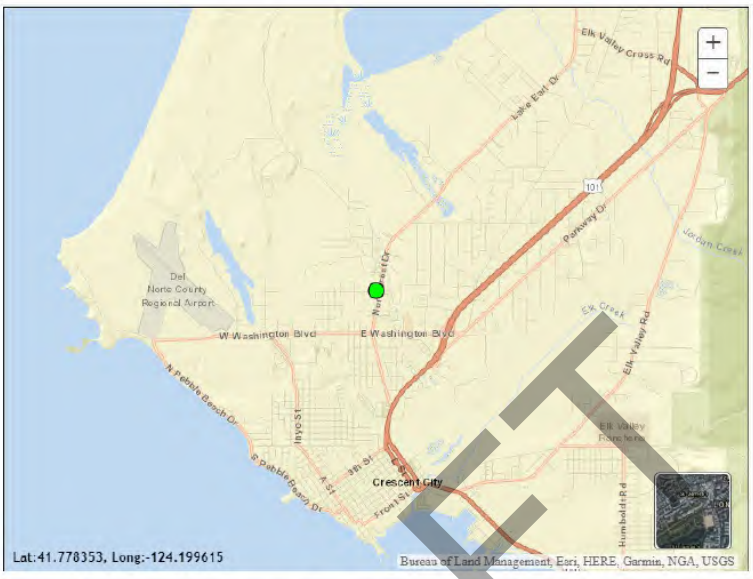
Below is a plot of high and low groundwater elevations in feet msl for the period 1985 through 2025.

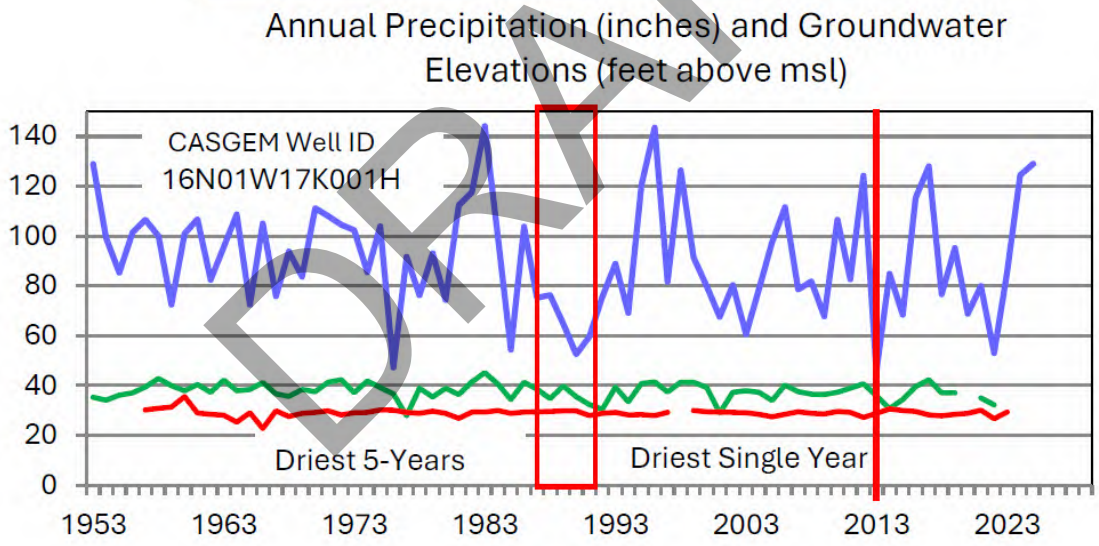




DRAFT

Below is a plot of high and low groundwater elevations in feet msl for the period 1953 through 2025.





DRAFT

The maps and graphs above indicate that groundwater elevations have been relatively consistant throughout the time periods.

5.0 SMITH RIVER GROUNDWATER BASIN

The Sustainable Groundwater Management Act (SGMA, 2014) requires the Department of Water Resources to prioritize each of California's 515 groundwater basins and subbasins based on eight components. Basin prioritization is a technical process that utilizes the best available data and information to classify groundwater basins into one of four categories high-, medium-, low-, or very low-

priority. The technical process is based on eight components that are identified in the California Water Code Section 10933(b).

(1) The population overlying the basin or subbasin.

(2) The rate of current and projected growth of the population overlying the basin or subbasin.

(3) The number of public supply wells that draw from the basin or subbasin.

(4) The total number of wells that draw from the basin or subbasin.

(5) The irrigated acreage overlying the basin or subbasin.

(6) The degree to which persons overlying the basin or subbasin rely on groundwater as their primary source of water.

(7) Any documented impacts on the groundwater within the basin or subbasin, including overdraft, subsidence, saline intrusion, and other water quality degradation.

(8) Any other information determined to be relevant by the department, including adverse impacts on local habitat and local streamflows.

Selected data from the prioritization of the Smith Groundwater Basin are included below:

Basin ID	**1-001**
Basin Name	Smith River Plain
Subbasin Name	
Basin Area (Acre)	40,434.486
Basin Area (Sq. Mile)	63.17888
Hydrologic Region	North Coast
Basin Status	Final
Active Groundwater Level Monitoring 0 = No 1 = Yes	1
Critical Overdraft (B118-16) 0=No 1=Yes	0
Final Priority Points	0
Final Basin Priority	Very Low
Public Supply Wells	19
Production Wells	1,309
Production Well /Sq. mile	20.71
Irrigated	5,457
Irrigated Acreage /Sq. Mile	86.37
Decline Comment(s)/Source(s)	No documented Groundwater Level Declines
Subsidence Comment(s)/Source(s)	No documented groundwater extraction induced inelastic Subsidence

DRAFT

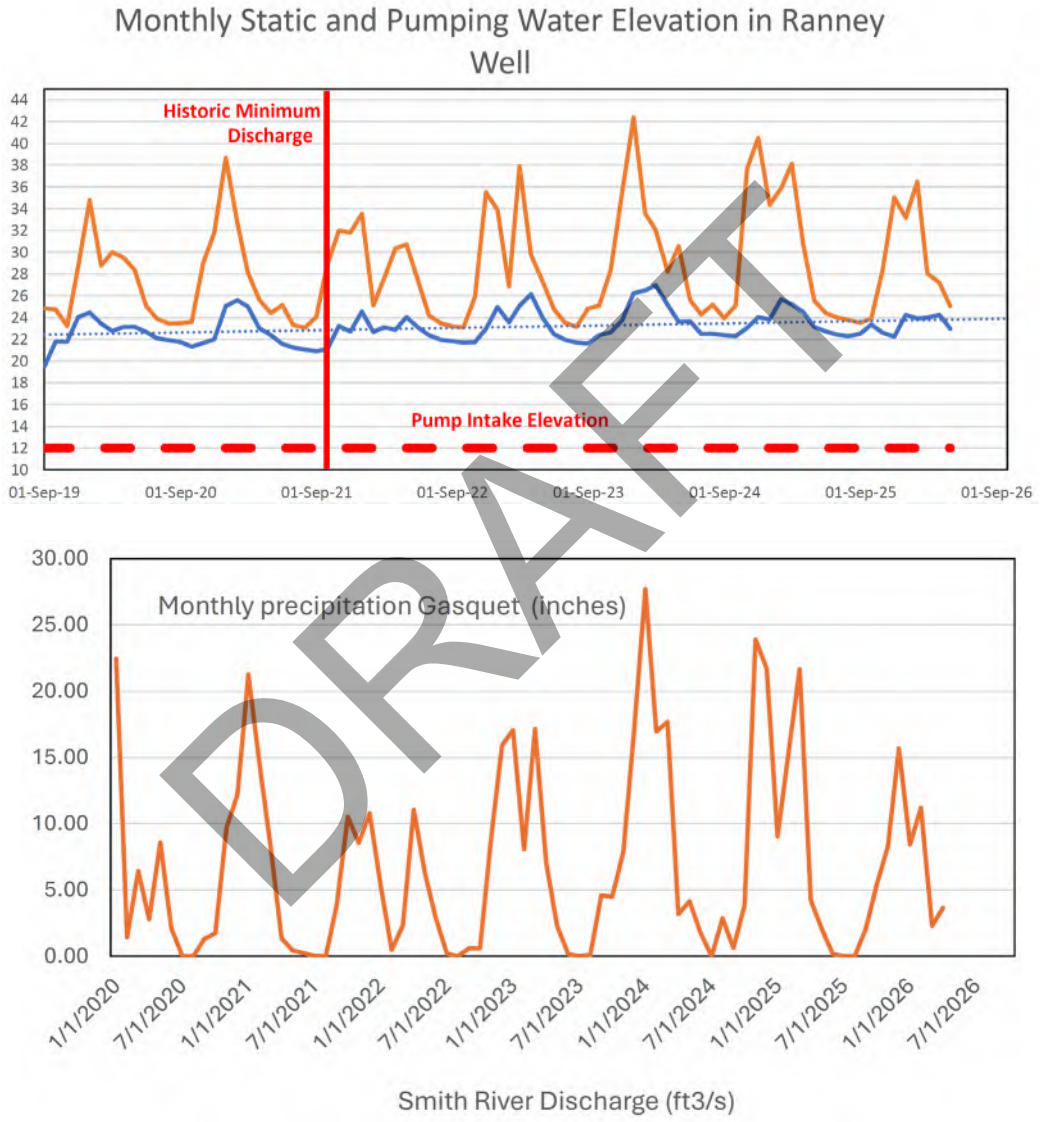
Basin ID	**1-001**
Component 7.c Salt Intrusion Points	0
Saline Intrusion Comment(s)/Source(s)	No documented Saline Intrusion
SGMA 2019 Basin Prioritization Basin Priority	Very Low

The analysis indicated that the Smith River Groundwater Basin was classified as very low priority. As a result of the documented sustainability of the Smith River Groundwater Basin it did not warrant additional assessment and management planning.

DRAFT

6.0 CITY RANNEY COLLECTOR WELL OBSERVATIONS

Water levels have been collected from the City's Ranney Collector Well through a Supervisory Control and Data Acquisition (SCADA) system since September 2019. Water level (thickness) measurements were converted to elevation (feet msl) by adding the elevation of the bottom of the well 7.13 feet to the water thicknesses. Monthly maximum drawdown, static water level elevation (feet msl), and pump intake elevation are plotted below



DRAFT

There appears to be a strong correlation between monthly precipitation (Gasquet) and the static water elevation in the Ranney Well (not pumping). The water level elevations during pumping (drawdown) correlates with monthly precipitation but the response is significantly diminished (approximate 4-foot range) compared to the static water elevations with a range of approximately 18 feet.

7.0 INFRASTRUCTURE CAPABILITIES AND PLAUSIBLE CONSTRAINTS

The City relies on a single Ranney Collector Well located adjacent to the Smith River. Historic low discharge conditions (September 2021) resulted in a drawdown that left over 8 feet of water remaining above the pump intake. Historical patterns of precipitation and Smith River discharge have become less regular and unpredictable making forecasting based on historical performance less certain.

One plausible constraint is only having a single source of water that could be vulnerable to environmental impact and climate change factors over time. The City is currently investigating the potential of installing a groundwater production well on City-owned property between the Smith River and Crescent City next to an existing water distribution system that leads to the existing chlorination facility.

DRAFT

8.0 PROJECTED WATER DEMAND AND SUPPLY

Projected water demand for the next 24 months is based on the demand in the previous calendar year (2025) plus California Department of Finance (DOF) population projections.

	2025 Demand (MGY)	2026 Demand (MGY)	2027 Demand (MGY)
Res MG	229.3	227.9	226.5
Comm/Inst MG	298.7	296.9	295.1
Ind MG	1.2	1.2	1.2
Dist Loss	300.3	298.5	296.7
Total Demand	829.4	824.5	819.5
Supply (MGY)	1,194	1,194	1,194
Shortage or Excess (MGY)	(364.56)	(369.53)	(374.48)

The City of Crescent City currently extracts water from the Smith River (underflow) under the City of Crescent City Water Resources Control Board water rights permit #11475, and under the California Department of Corrections (CDC) Water Resources Control Board water rights permit # 20210 for Pelican Bay State Prison, for a combined annual maximum production of 1,194 MGY. The supply is projected to be the combined water rights annual volume (1,194 MGY) which is only 2.2% for the historic minimum Smith River discharge 158 cfs, (37,230 MGY).

Based on historical conditions, our understanding of the Smith River Groundwater Basin, and climate change projections, supply is likely to exceed demand over the next 24 months even if dry conditions exist similar to those in 2013 (record low annual precipitation), or 2021 (lowest Smith River discharge).

DRAFT

9.0 CONCLUSIONS

This Section describes the conclusion of the 2026 Annual Water Demand and Supply Analysis.

This assessment is based on the analysis of historic data and projections including:

- Local precipitation trends;
- Historic Smith River discharge trends;
- Groundwater elevation trends;
- Observations from the City's Ranney Collector Well;
- Documented sustainability of the Smith River Groundwater Basin; and
- Climate change projections.

Assuming that future conditions are similar to historical conditions, the water supply will likely meet the projected demand over the next 24 months even if dry conditions exist similar to those in 2013 (record low annual precipitation), or 2021 (lowest Smith River Discharge).

DRAFT

APPENDIX A

ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT REPORTING TABLES

DRAFT

Table 1. Annual Assessment Information	
Type of Supplier (Required to check one or two)	
Supplier is a Wholesaler	☐
Supplier is a Retailer	☑
If you are both a wholesaler and retailer, will you be submitting two separate reports or a combined report?	Number of Reports
Year Covered By This Shortage Report (Required)	
Start: July 1,	2026
End: June 30,	2027
Volume Unit for Reported Supply and Demand: *(Must use the same unit throughout)*	MG
Supplier's Annual Assessment Planning Cycle (Required)	
Start Month:	July
End Month:	June
Data Interval:	Monthly (12 data points per year)
Water Supplier's Contact Information (Required)	
Water Supplier's Name:	City of Crescent City
Contact Name:	David Yeager
Contact Title:	Director of Public Works
Street Address:	377 J Street
ZIP Code:	95531
Phone Number:	(707)465-4405
Email Address:	dyeager@crescentcity.org
Report Preparer's Contact Information *(if different from above)*	
Preparer's Organization Name:	Freshwater Environmental Services
Preparer's Contact Name:	Orrin Plocher
Phone Number:	(707)498-9071
Email Address:	orrin@freshwaterenvironmentalservices.com
Supplier's Water Shortage Contingency Plan	
WSCP Title	CRESCENT CITY WATER SHORTAGE CONTINGENCY PLAN
WSCP Adoption Date	6/1/2021
Other Annual Assessment Related Activities	
Activity	**Timeline/ Outcomes / Links / Notes**
Annual Assessment/ Shortage Report Title:	Optional
Annual Assessment / Shortage Report Approval Date:	MM/DD/YYYY
Other Annual Assessment Related Activities:	Optional
(Add rows as needed)	

DRAFT

Table 2: Water Demands[1]

Use Type			Start Year:	2026			Volumetric Unit Used[2]:	MG					
Drop-down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool (Add additional rows as needed)	Additional Description (as needed)	Level of Treatment for Non-Potable Supplies **Drop-down list**	Projected Water Demands - Volume[3]											
			Jul	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Total by Water Demand Type**
Demands Served by Potable Supplies															
Single Family			18.99	18.99	18.99	18.99	18.99	18.99	18.99	18.99	18.99	18.99	18.99	18.99	227.9002395
Commercial			24.74	24.74	24.74	24.74	24.74	24.74	24.74	24.74	24.74	24.74	24.74	24.74	296.8673877
Industrial			0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	1.169982511
Losses			24.88	24.88	24.88	24.88	24.88	24.88	24.88	24.88	24.88	24.88	24.88	24.88	298.5289311
															0
															0
															0
															0
															0
															0
Total by Month (Potable)			68.705545	68.705545	68.705545	68.705545	68.705545	68.705545	68.705545	68.705545	68.705545	68.705545	68.705545	68.705545	824.4665408
Demands Served by Non-Potable Supplies															
															0
															0
															0
															0
															0
Total by Month (Non-Potable)			0	0	0	0	0	0	0	0	0	0	0	0	0

Notes: List considered factors impacting demands

[1]Projections are based on best available data at time of submitting the report and actual demand volumes could be different due to many factors.

[2]Units of measure (AF, CCF, MG) must remain consistent.

[3]When opting to provide other than monthly volumes (bi-monthly, quarterly, or annual), please see directions on entering data for Projected Water Demand in the Table Instructions.

Optional (for comparison purposes)	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Total**
Last year's total demand													0
Two years ago total demand													0
Three years ago total demand													0
Four years ago total demand													0

DRAFT

Table 3: Water Supplies[1]

Water Supply		Start Year:	2026			Volumetric Unit Used[2]:	MG								
Drop-down List May use each category multiple times.These are the only water supply categories that will be recognized by the WUEdata online submittal tool (Add additional rows as needed)	Additional Detail on Water Supply	Projected Water Supplies - Volume[3]												Water Quality **Drop-down List**	Total Right or Safe Yield* (optional)
		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total by Water Supply Type	
Potable Supplies															
Groundwater (not desal.)		99.50	99.50	99.50	99.50	99.50	99.50	99.50	99.50	99.50	99.50	99.50	99.50	1194	
														0	
														0	
														0	
														0	
														0	
														0	
														0	
														0	
														0	
Total by Month (Potable)		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	1194	0
Non-Potable Supplies															
														0	
														0	
														0	
														0	
														0	
Total by Month (Non-Potable)		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes: List hydrological and regulatory conditions, infrastructure capabilities, and plausible constraints which may impact the water supplies

[1]Projections are based on best available data at time of submitting the report and actual supply volumes could be different due to many factors.

[2]Units of measure (AF, CCF, MG) must remain consistent.

[3]When opting to provide other than monthly volumes (bi-monthly, quarterly, or annual), please see directions on entering data for Projected Water Supplies in the Table Instructions.

Optional (for comparison purposes)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
eAR Reported Total Water Supplies													**0**

DRAFT

	= Auto calculated
	= From prior tables
	= For manual input

Table 4(P): Potable Water Shortage Assessment[1]	Start Year: 2026					Volumetric Unit Used[2]:					MG		
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun[3]	Total
Anticipated Unconstrained Demand	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	824.47
Anticipated Total Water Supply	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	1194.00
Surplus/Shortage w/o WSCP Action	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	369.5
% Surplus/Shortage w/o WSCP Action	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
State Standard Shortage Level	0	0	0	0	0	0	0	0	0	0	0	0	0
Planned WSCP Actions[4]													
Benefit from WSCP: Supply Augmentation													0.0
Benefit from WSCP: Demand Reduction													0.0
Revised Surplus/Shortage with WSCP	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	369.5
% Revised Surplus/Shortage with WSCP	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%

[1]Assessments are based on best available data at time of submitting the report and actual volumes could be different due to many factors.

[2]Units of measure (AF, CCF, MG) must remain consistent.

[3]When optional monthly volumes aren't provided, verify Tables 2 and 3 use the same columns for data entry and are reflected properly in Table 4 and make sure to use those same columns to enter the benefits from Planned WSCP Actions. Please see directions on the shortage balancing exercise in the Table Instructions. If a shortage is projected, the supplier is highly recommended to perform a monthly analysis to more accurately identify the time of shortage.

[4]If you enter any WSCP Benefits, then you must enter the corresponding planned Actions into Table 5.

	= Auto calculated
	= From prior tables
	= For manual input

Table 4(NP): Non-Potable Water Shortage Assessment[1]	Start Year: 2026					Volumetric Unit Used[2]:					MG		
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun[3]	Total
Anticipated Unconstrained Demand: Non-Potable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Anticipated Total Water Supply: Non-Potable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Surplus/Shortage w/o WSCP Action: Non-Potable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% Surplus/Shortage w/o WSCP Action: Non-Potable													
Planned WSCP Actions[4]													
Benefit from WSCP: Supply Augmentation													0.0
Benefit from WSCP: Demand Reduction													0.0
Revised Surplus/Shortage with WSCP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% Revised Surplus/Shortage with WSCP													

[1]Assessments are based on best available data at time of submitting the report and actual volumes could be different due to many factors.

[2]Units of measure (AF, CCF, MG) must remain consistent.

[3]When optional monthly volumes aren't provided, verify Tables 2 and 3 use the same columns for data entry and are reflected properly in Table 4 and make sure to use those same columns to enter the benefits from Planned WSCP Actions. Please see directions on the shortage balancing exercise in the Table Instructions. If a shortage is projected, the supplier is highly recommended to perform a monthly analysis to more accurately identify the time of shortage.

[4]If you enter any WSCP Benefits, then you must enter the corresponding planned Actions into Table 5.

DRAFT

Table 5: Planned Water Shortage Response Actions			July 1, 2026		to June 30, 2027	
Anticipated Shortage Level Drop-down List of **State Standard Levels** (1 - 6) and Level 0 (No Shortage)	**ACTIONS[1]: Demand Reduction, Supply Augmentation, and Other Actions. (Drop-down List)** These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	Is action already being implemented? **(Y/N)**	How much is action going to reduce the shortage gap? **(Optional)**		When is shortage response action anticipated to be implemented[2]?	
			Enter Amount	*(Drop-down List) Select % or Volume Unit*	*Start Month*	*End Month*
Add additional rows as needed						
0 (No Shortage)	Expand Public Information Campaign	Yes		MG	July	June
NOTES: Notes Section to be used only for clarifying details, and not for listing specific actions. Actions must be entred into table rows above.						

[1]If you plan Supply Augmentation Actions then you must enter WSCP Benefits from Supply Augmentation Actions into Table 4. If you plan Demand Reduction Actions then you must enter WSCP Benefits from Demand Reduction Actions into Table 4.

[2]If an Action is planned to be implemented in multiple non-contiguous periods of the year, please make separate entries on multiple rows for the same action spanning the different implementation periods.

DRAFT

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **SARA BARBOUR, HR MANAGER**

DATE: **JUNE 15, 2026**

SUBJECT: **PUBLIC HEARING ANNUAL JOB VACANCY REPORT**

RECOMMENDATION

- Open public hearing
  - Hear staff report
  - Technical questions for staff
  - Receive public comment
- Close public hearing
- Further Council discussion
- Receive the 2026 Job Vacancy Report and give direction as necessary and appropriate as it pertains to vacancies, recruitment and retention.

BACKGROUND

The California legislature adopted AB 2561, effective January 1, 2025. The act was spurred by concerns of the legislature regarding high job vacancies in public service and the impact that high vacancy rates have on the public worker services that have to fill the void. The act implements Government Code Section 3502.3, which requires the City to present the status of vacancies and recruitment and retention efforts at a public hearing at least once per fiscal year. Each recognized employee organization is entitled to be present at the hearing and make a presentation on vacancies and recruitment and retention efforts for positions within that bargaining unit. If the number of job vacancies within a single bargaining unit meets or exceeds 20% of the total number of authorized full-time positions, the act requires the City, upon request of the recognized employee organization, to include specified information during the public hearing.

The report must be presented at a public hearing prior to adoption of the final budget. During the hearing, the City is required to identify any necessary changes to policies, procedures, and recruitment activities that may lead to obstacles in the hiring process.

ITEM ANALYSIS

CRESCENT CITY 2026 JOB VACANCY REPORT

The City's vacancy analysis is dated May 1, 2026. As of that date, no single bargaining unit had vacancies at or above 20% of the total number of authorized full-time equivalents in the unit.

VACANT POSITIONS AS OF 5/01/2026	BARGAINING UNIT	FT/PT	#	CURRENT STATUS 6/3/25
BLDG INSPECTOR / CODE ENFORCMENT OFFICER	CCMEA	FT	1	FILLED (6/12/26)
FIRE CHIEF	CONTRACT	FT	1	VACANT 12/29/25
SR BLDG/PARKS MAINT WORKER	CCEA	FT	1	VACANT 2/18/26
AQUATICS SUPERVISOR	CCMEA	FT	1	VACANT 3/24/26
RECORDS SPECIALIST	CECC	PT	1	VACANT
ECON DEV / REC ASST	UNREPRESENTED	PT	1	VACANT
OFFICE TECH (PW)	CECC	PT	1	VACANT

BLDG INSPECTOR / CODE ENFORCEMENT OFFICER (FT): This position was vacated in September of 2025. Multiple recruitments were conducted, the last one closing 4/3/2026. The position was recently filled with a start date of 6/12/26.

FIRE CHIEF (FT): Fire Chief position was vacated in December of 2025. An interim Chief was appointed immediately following the vacancy. Job description and recruitment materials were updated to reflect current needs of the department and recruitment officially opened on May 6.

SR BLDG/PARKS MAINTENANCE WORKER (FT): This position was vacated in February 2026. It is not being actively recruited for as it has been proposed to eliminate the position and delegate the supervisory duties to two separate positions, one focused on parks, and the other focused on buildings and facilities. Once the new job descriptions are finalized, recruitment will open.

AQUATICS SUPERVISOR (FT): This position was vacated in March 2026. An interim Aquatics Supervisor was appointed, and we are actively recruiting for this position.

PD RECORDS SPECIALIST (PT): This position is not being actively recruited as it has been proposed to eliminate the position and create a community service officer (CSO) position. The job description has been drafted and is ready for final review, however, the budget does not include a CSO position in the immediate future.

ECONOMIC DEVELOPMENT / RECREATION ASSISTANT (PT): This position is not being actively recruited for. The City has updated the position to reflect the needs of both the Recreation Director and Grants and Economic Development Manager. The position was initially advertised in late April but pulled due to budget constraints. The City is proposing to eliminate this position.

OFFICE TECH - PUBLIC WORKS (PT): This position is not being actively recruited. It was placed on hold while the new PW Manager had a chance to assess department needs. The City is proposing to eliminate this position, as it has not been identified as a necessity within the PW department at this time.

The City has not identified any necessary changes to policies, procedures, and recruitment activities due to obstacles in the hiring process.

This concludes the annual report.

FISCAL ANALYSIS

The delivery of this report has no direct fiscal impact.

STRATEGIC PLAN ANALYSIS

This item is consistent with the following strategic plan goals:

- Goal 3: Obtain the Highest Levels of Organizational Excellence

ATTACHMENTS

1. None.

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **LINDA LEAVER, FINANCE DIRECTOR**

DATE: **JUNE 15, 2026**

SUBJECT: **FISCAL YEAR 2026-27 BUDGET, POSITION CONTROL, AND APPROPRIATIONS LIMIT**

RECOMMENDATION

- Public hearing
  - Open public hearing
  - Receive staff report
  - Technical questions from Council
  - Receive public comment
  - Close public hearing
- Further Council discussion
- Adopt Resolution No. 2026-47, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY ADOPTING THE ANNUAL BUDGET OF THE CITY OF CRESCENT CITY, INCLUDING ANY ATTACHMENTS AND/OR APPENDICES, FOR FISCAL YEAR 2026-27
- Adopt Resolution 2026-48, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY REVISING THE SALARY SCHEDULE FOR CERTAIN CONTRACT AND CONFIDENTIAL POSITIONS
- Adopt Resolution No. 2026-49, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY SELECTING THE ANNUAL ADJUSTMENT FACTORS FOR THE CALCULATION OF THE FISCAL YEAR 2026-27 APPROPRIATIONS LIMIT FOR THE CITY OF CRESCENT CITY

BACKGROUND

The process of creating the coming fiscal year's budget typically begins as soon as the mid-year budget review for the current fiscal year is completed. The City Manager, Finance Director, Department Heads, and Managers review current trends and forecast the next year's revenues and expenses in detail. Once the initial budget requests are received, the Finance Director compiles all the data and presents an overview to the City Manager. The City Manager and Finance Director then meet with each Department Head and Manager to make adjustments. The goal is to present a budget proposal that matches

ongoing revenues to ongoing expenses, with strategic use of reserve funds for priority projects.

The Measure S Oversight Committee is also an important part of the budget process. The Committee is charged with reviewing and reporting on the revenues and expenses of Measure S funds, as well as providing recommendations to the City Council on future expenditures. The Committee met March 10th and April 14th to review the status of Measure S funds and develop a recommendation for FY 2026-27 expenditures. The result of those meetings was the adoption of Resolution No. MS2026-03 recommending priorities to be funded with Measure S in FY 2026-27. Those recommendations were incorporated into the proposed budget discussed at the City Council's budget workshop, with slight changes to the dollar amounts for items related to staffing (due to changes in wages and benefit costs).

The City Council held a public workshop on May 20th to discuss the Fiscal Year 2026-27 budget. The City Manager and Finance Director presented the proposed budget and City staff were present to provide additional information on their respective departments. The budget presented tonight is based on Council direction at the budget workshop plus significant items approved at the June 1 Council meeting (sewer and water rate increases and a grant-funded sewer capital planning project).

ITEM ANALYSIS

Important budget topics to note:

- The City follows best practice in setting conservative budgets. Staff attempts to forecast revenues in a conservative but realistic manner, and all anticipated expenses and positions are included in the budget. Actual expenses have historically come in lower than the approved budget, due to a variety of factors (unfilled staff positions, deferred projects, routine expenses coming in under budget, etc.).
- Insurance and pension costs continue to rise. The City's required contributions have been included in the budget.
- Electricity costs increased significantly last year and are projected to increase again in January 2027. Estimated increases have been included in the budget.
- Staff has provided an estimate of the current year (Fiscal Year 2025-26) revenues and expenses, based on the year-to-date information at the time of budget preparation. These estimates have been used to project forward to determine the estimated ending fund balances at the end of Fiscal Year 2026-27. Actual results for Fiscal Year 2025-26 will not be known until several months after the fiscal year ends and staff has closed the books. Once the final numbers are known, staff will provide an update to the Council.
- Projects that span multiple years (grant-funded and/or capital expenses) are included in the budget resolution to be carried over automatically. The proposed budget includes the estimated amounts remaining in each of these projects. After the Fiscal Year 2025-26 books are closed and the actual

amounts are finalized, the Fiscal Year 2026-27 budget will be updated to reflect the actual remaining amounts. This practice of carry-over budgeting will allow these projects to continue moving forward while staff works to close the books for the current fiscal year.

Staffing

Several proposed changes to staffing levels are included in the budget:

- Removal of three part-time positions that had been vacant for some time
- Public Works reorganization – as discussed at the budget workshop, the city is working on a reorganization of some of the Public Works positions in buildings and parks maintenance. There is an overall reduction in FTEs (full-time equivalents) with a planned conversion of one full-time regular position to a supervisory position, removal of one vacant full-time position, and addition of one seasonal position.

The City has Memorandums of Understanding (MOUs) with various employee bargaining units. The current MOUs run through June 30, 2027 and include a provision for a Cost-of-Living Adjustment (COLA) for FY 2026-27. The agreed COLA is based on inflation (CPI Los Angeles March 2026 over March 2025), with a minimum of 1% and a maximum of 3%. The actual inflation factor was 3.4%, so the COLA is 3%, which is included in the proposed budget. Contract and confidential positions receive the same COLA as the MOUs, and a resolution for these adjustments is attached.

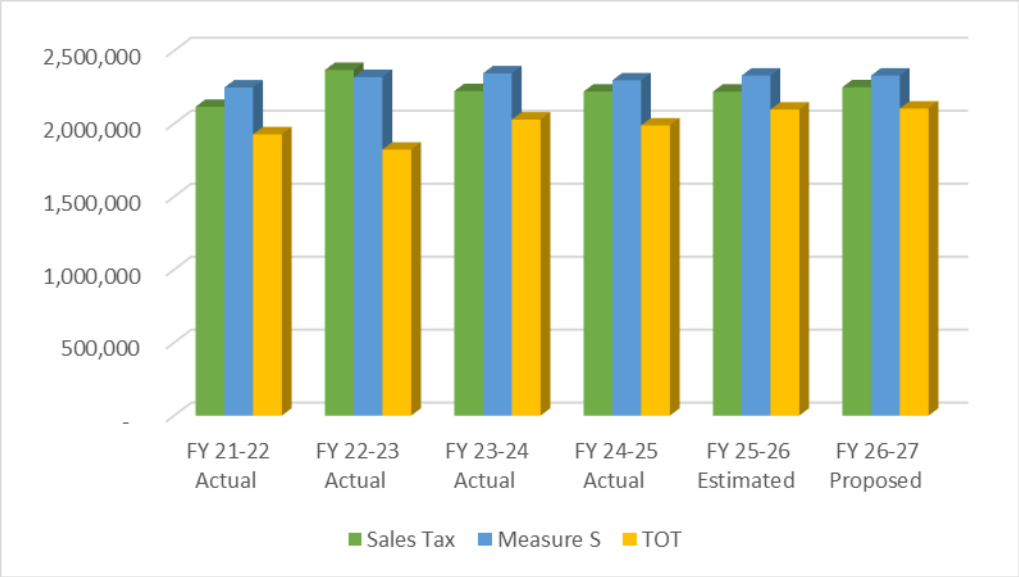
Major Funds

A brief summary of each of the City's major funds is provided below. More detail is included in the attached budget document. The budget document includes every fund of the City, actual revenues and expenses for three prior fiscal years, budgeted revenues and expenses for the current fiscal year, estimated actual revenues and expenses for the current fiscal year, and the proposed budget for Fiscal Year 2026-27. Additional information in the budget document includes the City's organizational chart, projected fund balances, authorized position control, and appropriations limit. A copy of Resolution No. MS2026-03, the recommendations from the Measure S Oversight Committee, is also included.

General Fund

The General Fund contains all governmental services that are not accounted for in other funds. These services include public safety (police and fire), community development (code enforcement, building inspection, planning, and engineering), streets, economic development, recreation, and administration. These services are largely funded through tax revenues, although some services are partially or fully funded through charges for service, cost recoveries, and grants.

The largest revenue sources in the General Fund are sales tax, Measure S, and Transient Occupancy Tax (TOT). In November 2020, the voters of Crescent City approved Measure S, a 1% local tax (technically a "transactions and use tax" but often referred to as an add-on sales tax). Measure S began to be collected by retailers in April 2021. This revenue is intended to fund essential services in the General Fund, including police, fire, streets, and the swimming pool.



Other revenue sources in the General Fund include property taxes, charges for services, licenses and permits, grants, transfers, and other sources. Total revenues for FY 26-27 are projected to decrease compared to the FY 25-26 estimate. Sales tax, Measure S, and TOT are projected to remain nearly flat, while fire services revenue will decrease (there was a timing issue with a portion of FY 24-25 revenue being received in FY 25-26, which caused a one-time increase in FY 25-26).

	FY 25-26 Estimated	FY 26-27 Proposed
Sales tax	2,220,000	2,250,000
Measure S	2,330,000	2,330,000
TOT	2,097,000	2,104,000
Other taxes	1,033,627	1,076,300
Bldg permit & plan check	169,347	168,500
Fire services	1,099,682	885,128
Grants	431,320	487,163
Pool	226,796	228,805
Other reimb	119,825	115,082
Transfers in	298,289	270,365
Other	694,214	635,910
Total	10,720,100	10,551,253

Expenditures in the General Fund include staffing, materials, utilities, contract services, transfers, and other expenses needed to provide the services listed above. As a service-driven organization, the largest share of expenditures in the General Fund is wages and benefits (approximately 57%). Contracts account for approximately 15% of the budget, transfers are 7% (to fund equipment purchases and capital improvements), materials and internal service funds are each 6%, and utilities, contributions, and other expenses make up the rest.

The budget includes all items that were recommended by the Measure S Oversight Committee. Some amounts in the fire and police departments were changed slightly from what the Committee recommended due to changes in projections for wages and benefits.

- Fire Department ($509,628 net)
    - Three full-time Career Fire Captain positions
    - Continue volunteer stipend program and overnight volunteer staffing at fire station
    - Firefighter intern program
    - Training
    - Department software
    - Small equipment and tools, radios, pagers, satellite communications for 4 vehicles, and iPads
    - Deposit into vehicle/equipment replacement fund for future SCBA replacements
    - Turnout replacements
    - Deposit into vehicle/equipment replacement fund for future turnout replacements
    - Deposit into vehicle/equipment replacement fund for future apparatus purchase
    - Deposit into CIP fund for improvements at City fire station (station alert system)
    - Note: some of these expenses are cost-shared with the Fire Protection District. The full amount of the expense is included in the budget, with a corresponding revenue for the District's share, which includes a 7% admin overhead fee. All revenues related to reimbursement of Measure S expenses are added back to the Measure S balance.
    - Note: the net budget recommended by the Measure S Oversight Committee was $509,728

- Police Department ($618,902)
    - Three patrol officers
    - Assign one officer to Detective duty
    - Routine costs for two K9 officers (training, veterinary care, food, etc.)
    - Annual contract costs - tasers, body cams, dash cams
    - Medical supplies

  - Portion of annual cost for cell phone analyzer (subscription, data storage, and/or training)
  - Transfer to police vehicle replacement fund for purchase of a patrol vehicle
  - Note: the budget recommended by the Measure S Oversight Committee was $645,164

- Streets ($835,000)
  - Street light repairs
  - Sidewalk repairs or installation
  - Minor repairs of potholes, crack sealing
  - Deposit to Capital Improvement Fund for large maintenance project
  - Deposit to Equipment Fund for future replacement of backhoe

- Swimming pool ($395,000)
  - Parts and equipment replacements
  - Support operations including staffing and utilities

- Finance ($8,291)
  - Sales tax consultant for revenue projections and business audits
  - Independent audit of Measure S funds

Measure S funds are tracked, and if any Measure S revenues are not spent, the balance is carried forward to be used on future Measure S projects and activities. Staff estimates the current year projection plus the proposed budget would result in a Measure S balance of approximately $452,266 at the end of FY 26-27. The Measure S Oversight Committee maintains a 5-year spending plan for Measure S funds to provide sustainable support to these departments. The current spending plan shows that all Measure S funds will be spent by the end of the 5-year period. Actual revenues and expenses are updated periodically, and the Oversight Committee will make updated recommendations as needed to ensure the funds are used for their intended purpose and remain sustainable.

Total General Fund budgeted expenditures are nearly the same as the estimated total for FY 2025-26 and lower than the FY 2025-26 total budget. With revenues projected to remain nearly flat, the City worked to reduce expenditures where possible. This includes removing three part-time vacant positions and restructuring the buildings and parks maintenance staffing as described above, as well as deferring some equipment purchases and capital improvements and reducing operating budget requests in every department.

The City has a policy of maintaining a General Fund balance of at least 25% of total expenditures. The policy was updated in 2022 and contains the following provisions:

- The purpose of the 25% reserve is to fund ongoing operations for at least 90 days in the event of emergency.
- The 25% is calculated based on operating expenses, not including grant-funded projects or capital improvements.

- When projecting fund balance in future years, it is reasonable to assume that 5% of the proposed operating budget will not be spent.

The fund balance was $4,539,754 as of the last audit (June 30, 2025). The estimated fund balance for June 30, 2026 is $3,665,246. It is important to note this estimate is based on year-to-date results when the budget was developed plus estimates for the remainder of the year. Actual results will not be known until the fiscal year is closed, and results will vary from this estimate.

The proposed budget, if all revenues come in exactly as budgeted and all expenses are fully spent, would reduce the estimated fund balance by $1,057,782 leaving a fund balance of $2,607,464. Assuming 5% of the operating budget (not including capital expenses or one-time projects funded by grants) is not spent, the ending fund balance on June 30, 2027 would be estimated at $3,132,399.

Fund balance at 6/30/25	4,539,754
Estimated fund balance at 6/30/26	3,665,246
FY 26-27 budgeted revenues	10,551,253
FY 26-27 budgeted expenditures	(11,609,035)
Fund balance at 6/30/27 if budget fully spent	2,607,464
Fund balance at 6/30/27 with 5% operational budget savings	3,132,399

Of the budgeted expenditures for FY 2026-27, one-time projects funded by grants total $319,838 and capital purchases / transfers to capital improvement funds total $790,500. Therefore, of the $11,609,035 total budget, the operational budget is $10,498,697. The required reserve based on the operational budget is $2,624,674.

Total budgeted expenditures	11,609,035
One-time projects funded by grants	(319,838)
Capital expenses / transfers to capital improvement funds	(790,500)
Operational expenses	10,498,697
Reserve 25% of operational expenses	2,624,674

The estimated ending fund balance at June 30, 2027, using the projection for the current year (FY 2025-26) and assuming 5% budget-to-actual savings in operating expenses in FY 2026-27, is $3,132,399. Of that amount, approximately $452,266 is estimated to be Measure S. Calculating the reserve, this leaves approximately $55,000 in unallocated fund balance remaining.

Fund balance at 6/30/25	4,539,754
Estimated fund balance at 6/30/26	3,665,246
Fund balance at 6/30/27 with 5% operational budget savings	3,132,399

Estimated Measure S balance at 6/30/27	(452,266)
Reserve 25% operating expenses	(2,624,674)
Fund balance remaining unallocated	55,459

The FY 2025-26 ending fund balance will be recalculated when actual results are known, after all revenues and invoices for the current fiscal year are received and year-end accounting processes are complete. At that point, the unallocated fund balance for FY 2026-27 will also be updated using the FY 2025-26 actual ending fund balance and projecting forward.

Cash Flow

The City's cash flow has been an item of discussion for some time, as the City has been successful in obtaining grant funding for several large projects in recent years. The City is on track to construct over $15 million in grant-funded projects:

- Beachfront Park (Prop 68) approximately $8 million
- Front Street (Clean California) approximately $3 million
- Front Street (CDBG) approximately $3 million
- F Street (CDBG) approximately $1 million

There are other projects scheduled as well (both City-funded and grant-funded), but these four will have the most significant impact on the City's cash flow.

Grant-funded projects are usually on a reimbursement basis, meaning the City pays the project invoices and then requests reimbursement from the granting agency, which can take several months to receive. In between paying the contractor and receiving the reimbursement from the granting agency, the City's cash balance is reduced. For most projects, this temporary negative cash balance for the grant project must be covered by cash from the General Fund.

There are multiple factors involved in forecasting the cash flow for the City:

- General Fund cash balance at any given time, related to regular revenues and expenses and the timing of each of these
- Timing of grant project expenses
- Timing of reimbursements from different granting agencies

All these factors are continually changing, and some are outside the City's direct control. Therefore, there will always be an element of risk related to decisions about how to manage cash flow. The City manages this risk by using the best information available, monitoring for updates, utilizing the services of experts including our municipal financial advisor, and making decisions about the costs associated with protecting against risk (for example, consultant fees, financing costs, etc.).

Due to requesting some of the grant funding in advance and negotiating a faster than normal turnaround for reimbursement on others, staff anticipates the City will be able to

manage cash flow during FY 2026-27 without requiring outside borrowing (which is very expensive). Should conditions change significantly, this item will be brought back to the Council for updates.

Housing Authority

The Housing Authority is federally funded through the Department of Housing and Urban Development (HUD) and assists low-income individuals and families throughout Del Norte County with housing vouchers. We are currently providing assistance to approximately 516 households per month. The proposed budget for FY 2025-26 includes an increase in both revenues and expenditures, planning for several of the project-based vouchers to come online as well as increases in voucher and admin costs.

The current year is estimated to close with a fund balance of $441,180. The proposed budget for FY 2026-27 would close with a fund balance of $286,665.

	FY 2025-26 Estimated	FY 2026-27 Proposed
Revenues	4,849,661	5,243,898
Expenditures	(4,876,726)	(5,398,413)
Net	(27,065)	(154,515)
Ending fund balance	441,180	286,665

RV Park Fund

The City owns and operates Lighthouse Cove RV Park, which is a 94-space RV park just across Elk Creek from Beachfront Park. This is an enterprise fund, which means revenues from the users of this service are intended to cover the fund's expenses including operations, maintenance, overhead, capital improvements, and debt if applicable.

The proposed budget includes a reduction in working capital to fund both operating expenses and the capital improvement project currently underway (which is funded by a $835,000 grant plus $200,000 from working capital). However, the budgeted revenues do not yet include any increases from the apartment and two cabins that will begin being rented once the project is complete. The Council recently formed an ad hoc committee, and determining the rents for the new units will be one of their tasks.

The working capital balance will be used to manage cash flow for the grant project this year. In future years, working capital can be used to fund improvement projects at the RV Park.

	FY 2025-26 Estimated	FY 2026-27 Proposed
Operating revenues	698,474	685,500
Grant revenues	15,458	819,542

Operating expenses	(616,590)	(727,242)
CIP expenses	(27,511)	(998,945)
Net	69,831	(221,145)
Ending working capital	749,954	528,809

Sewer Fund

The Sewer Fund is an enterprise fund, and users are charged for the services provided. User fees are intended to cover the ongoing costs of providing the services (including operations and maintenance, overhead, capital improvements, debt service, and reserves) and are set through a rate study and Prop 218 process.

In 2016, a rate increase was approved by the City Council and successfully passed the Prop 218 process but was then blocked by a referendum which placed the rate ordinance on the November 2016 ballot, where the majority of voters voted against the rates. For several years, staff worked to stabilize this fund on multiple fronts, including restructuring the existing loan, contracting operations to Jacobs Engineering, pursuing grants, and revising and deferring capital improvements and major maintenance. Earlier this year, a new rate study was completed and presented to the City Council. The proposed rates passed the Prop 218 process at a public hearing held June 1, 2026 with the new rates set to go into effect July 2026. The proposed budget now includes those rate increases.

Expenses in the proposed budget include large investments in capital costs. CIP that is budgeted in the current year but not complete will be automatically carried over until finished. The proposed budget includes an estimate of these carry-over amounts from the current fiscal year, which will be updated when exact expenses from this year are finalized.

The CIP for FY 2026-27 includes:

RBC gear box	127,000
Boiler	228,000
Influent gate	35,000
Primary influent valves	120,000
Influent pump rebuild	151,000
Gas flare	79,000
Primary buildings (design)	28,000
Chemical pumps	56,000
WWTP improvements (design – grant funded)	1,156,757
City sewer mains	488,000
CIP budget	2,468,757

Of the $2,468,757 CIP budget, $1,156,757 for design of future WWTP improvements is grant-funded and $1,312,000 is cash-funded.

The budget also includes the annual loan payment of $1,697,663 which will continue until the loan is paid off in FY 2040-41.

	FY 2025-26 Estimated	FY 2026-27 Proposed
Operating revenues (net of transfers between CIP and operating funds)	5,322,057	6,908,511
Grant revenue	384,860	1,156,757
Operating expenses (net of CIP transfers)	(4,955,273)	(4,923,582)
CIP	(150,438)	(2,468,757)
Debt service	(1,697,663)	(1,697,663)
Net	(1,096,457)	(1,024,734)
Ending working capital	3,592,851	2,568,117

Even with the rate increase, the budgeted net results for FY 2026-27 are negative due to the investment in capital improvements. However, the increased revenues do allow for the CIP to progress as well as ongoing operations, maintenance, and debt service while keeping the working capital from going negative. Over the five-year period of the rate study, the new rates are projected to stabilize the fund to cover operations and maintenance, debt service, capital improvements, and reserves.

Water Fund

The Water Fund is an enterprise fund, and users are charged for the services provided. User fees are intended to cover the ongoing costs of providing the services (including operations and maintenance, overhead, capital improvements, and debt service) and are set through a rate study and Prop 218 process. On June 1, 2026 the City Council held a public hearing to increase rates, which passed the Prop 218 process and the new rates go into effect in July. The proposed budget now includes those rate increases.

Expenses in the proposed budget include investment in important capital improvements. CIP that is budgeted in the current year but not complete will be automatically carried over until finished. The proposed budget includes an estimate of these carry-over amounts from the current fiscal year, which will be updated when exact expenses from this year are finalized.

Surge protection (partially grant funded)	746,271
Meter replacements / AMR project	794,074
Water main replacements - annual	259,857
Ground source well (partially grant funded)	648,107
Amador tank rehab	30,000

Washington tank rehab	100,000
Chlorination generator	140,000
CIP budget	2,714,309

The surge protection project is partially grant funded for $200,000, the ground source well project is partially grant funded for $500,000 (of which $495,122 is remaining), and $2,019,187 in CIP is cash funded.

	FY 2025-26 Estimated	FY 2026-27 Proposed
Operating revenues (net of transfers between CIP and operating funds)	3,055,515	4,125,515
Grant revenue		695,122
Operating expenses (net of CIP transfers)	(2,992,116)	(3,492,018)
CIP	(346,706)	(2,714,309)
Net	(283,307)	(1,385,690)
Ending working capital	4,072,455	2,686,765

Even with the rate increase, the budgeted net results for FY 2026-27 are negative due to the investment in capital improvements. However, the increased revenues do allow for CIP to progress as well as ongoing operations and maintenance while keeping the working capital from going negative. Over the five-year period of the rate study, the new rates are projected to stabilize the fund to cover operations and maintenance, debt service, capital improvements, and reserves.

Appropriations Limit (GANN Limit)

In 1979, the voters of California approved Proposition 4, commonly known as the Gann Limit ("Limit" or "Appropriations Limit"), to limit the growth of government taxation and spending. This proposition created Article XIIIB of the Constitution, which provides a formula for calculating these limits. In 1990, the voters adopted Proposition 111, which revises the formulas for calculating adjustments to the limit.

The limit is based on actual appropriations during the base year and increases each year using specified growth factors. The appropriations limit does not apply to all City revenues, but only to those revenues defined as "proceeds of taxes" with certain exceptions for voter-approved debt, qualified capital outlay, and the costs of complying with court orders and federal mandates. During any fiscal year, a government entity may not appropriate (spend) proceeds of taxes that are received in excess of the entity's limit. If the entity receives proceeds of taxes in excess of the limit, it may carry those funds into the subsequent year for use. Any excess remaining after the second year must be returned to the taxpayers by reducing tax rates or fees. Alternatively, a majority of voters may approve an override to increase the appropriations limit for a maximum of four years.

In accordance with Proposition 111, the Council must adopt the Appropriations Limit each year as part of the annual budget process. The annual change in the limit is determined by two factors: (1) change in population and (2) change in cost of living (inflation).

Population factor: The population figures are provided to the City each year by the State Department of Finance. The City may choose to use either the population growth figure for the City's population or the growth figure for the County's population. For FY 2026-27, the City population factor is 5.55% and the County factor is -1.17%. Staff recommends using the City factor.

Inflation factor: The City may use the California per Capita Income figure (provided by the State Department of Finance) or the percentage change in the local assessment roll from the preceding year due to the addition of local non-residential construction in the City. The City has used the California per Capita Income figure in previous years, and staff continues to recommend this action. This year's per capita income factor is 4.95%.

The total calculated appropriations limit for FY 2026-27, using the recommended factors, is $44,160,197 which is an increase of $4,295,330 over the FY 2025-26 limit. Only the General Fund includes budgeted revenues properly classified as proceeds of taxes, although the other types of funds are also presented consistent with previous years.

APPROPRIATIONS LIMIT: Fiscal Year 2026-27

			% Change over prior year				
A.	Price Factor						
	Per capita personal income	2026-27	4.95%				
	Population Factor						
	City	2026-27	5.55%				
	County	2026-27	-1.17%				
B.	Calculation						
	Per capita personal income	ratio	1.0495				
	Population	ratio	1.0555				
	Calculation of factor for FY 2026-27	A times B	1.1077				
		2025-26	**2026-27**	**2026-27**	**2026-27**	**2026-27**	**2026-27**
		Limit	**Limit**	**Proceeds of Taxes**	**Exclusions**	**Appropriations Subject to Limit**	**Under (Over) Limit**
	General Fund	7,821,760	8,664,533	7,878,165	(500,000)	7,378,165	1,286,368
	Special Revenue Funds	7,639,151	8,462,249	-	-	-	8,462,249
	Enterprise Funds	19,542,574	21,648,233	-	-	-	21,648,233
	Internal Service Funds	2,251,174	2,493,732	-	-	-	2,493,732
	Public Financing Authority	1,910,196	2,116,014	-	-	-	2,116,014
	Fiduciary Funds	700,012	775,436	-	-	-	775,436
		39,864,867	**44,160,197**	**7,878,165**	**(500,000)**	**7,378,165**	**36,782,032**

FISCAL ANALYSIS

The effects of the proposed budget on the City's major funds are discussed above. Below is a chart summarizing the proposed budget for each City fund (not including fiduciary funds). The projected ending fund balance / working capital is calculated as the estimated ending fund balance for the current fiscal year plus the net impact of the proposed budget for FY 2025-26 (not including any budget-to-actual savings for FY 2026-27). It is important to note that projections are an estimate calculated with information available at a point in time, and actual results will vary from projections.

This chart is included with additional details in the attached budget document.

		Proposed Revenues FY 2026-27	Proposed Expenditures / Expenses FY 2026-27	Proposed Net Activity FY 2026-27	Estimated Working Capital or Fund Balance * 6/30/2027
General Fund					
001	General Fund	10,551,253	(11,609,035)	(1,057,782)	2,607,464
Special Revenue Funds					
110	Housing Authority	5,243,898	(5,398,413)	(154,515)	286,665
104	CDBG Program Income (PI)	2,000	(2,000)	-	1,200
107	CDBG Loan Program	-	(2,000)	(2,000)	30,335
154	CDBG COVID	698	-	698	-
155	2022 CDBG	-	-	-	-
158	CDBG 2023	1,064,268	(1,064,268)	-	-
159	CDBG 2023-A	3,264,672	(3,264,672)	-	-
161	CDBG 2024	714,791	(714,791)	-	-
106	Rehab and Sidewalk Loans	-	-	-	68,980
115	Gas Tax	195,242	(195,242)	-	28,901
116	Successor Housing	-	-	-	649,087
117	RMRA	189,413	(427,200)	(237,787)	85,155
120	American Rescue Plan Act	-	(64,201)	(64,201)	-
121	Volunteer Firefighter Support	12,600	(23,043)	(10,443)	-
156	Clean California	2,569,720	(2,570,445)	(725)	-
157	CPLHA	181,354	(206,300)	(24,946)	-
160	PIP / PLHA	650,549	(650,550)	(1)	3,997
162	HOME Grant	138,786	(138,786)	-	-
163	OPC Grant	320,911	(320,911)	-	-
Debt Service Funds					
301	Police Department Facility Debt Service	-	-	-	132,000
Enterprise Funds					
412	RV Park	1,505,042	(1,726,187)	(221,145)	528,809
413	Sewer	6,858,511	(7,215,016)	(356,505)	1,903,879
913	Sewer CIP	1,800,528	(2,468,757)	(668,229)	314,238
419	Water	4,075,515	(4,287,018)	(211,503)	2,389,891
919	Water CIP	1,540,122	(2,714,309)	(1,174,187)	296,874
Internal Service Funds					
420	Info Tech Services	622,541	(639,022)	(16,481)	11,125
506	Building Services	238,501	(238,501)	-	(551)
508	Equipment Services	531,141	(491,141)	40,000	237,927
620	Insurance	957,298	(1,154,251)	(196,953)	50,150
630	OPEB	161,007	(161,007)	-	-
Capital Project & Acquisition Funds					
901	Capital Improvement Projects	8,461,448	(10,024,032)	(1,562,584)	319,103
902	Beachfront Park Donations	-	-	-	9,650
903	Pebble Beach CIP	13,403,593	(8,531,491)	4,872,102	234,859
930	Fire Veh & Equip Replacement	155,500	-	155,500	834,489
940	Police Vehicle Replacement	80,000	(86,329)	(6,329)	-

STRATEGIC PLAN ASSESSMENT

This report is consistent with the Strategic Plan Goal of “Maintaining a balanced budget while executing strong fiscal management, optimized staffing levels, and through maximizing services with available resources.”

ATTACHMENTS

- Resolution No. 2026-47, A Resolution of the City Council of the City of Crescent City Adopting the Annual Budget, Including Any Attachments and/or Appendices, for Fiscal Year 2026-27
- Resolution No. 2026-48, a Resolution of the City Council of the City of Crescent City Revising the Salary Schedule for Certain Contract and Confidential Positions
- Resolution No. 2026-49, A Resolution of the City Council of the City of Crescent City Selecting the Annual Adjustment Factors for the Calculation of the 2026-27 Appropriations Limit for the City of Crescent City
- Appropriations limit factors from State Department of Finance
- FY 2026-27 Proposed Budget

RESOLUTION NO. 2026-47

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY ADOPTING THE ANNUAL BUDGET OF THE CITY OF CRESCENT CITY, INCLUDING ANY ATTACHMENTS AND/OR APPENDICES, FOR FISCAL YEAR 2026-27

WHEREAS, the budget for the fiscal year beginning July 1, 2026 and ending June 30, 2027, as submitted by the City Manager, has been reviewed by the City Council and a duly-noticed public hearing held thereon the 15th day of June 2026.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CRESCENT CITY, CALIFORNIA AS FOLLOWS:

1. That the Fiscal Year 2026-27 City of Crescent City Annual Budget is hereby appropriated in the amounts identified below and further described in the attached budget:

Fund	Expense / Expenditure
General Fund	11,609,035
Special Revenue Funds	15,042,822
Debt Service Funds	-
Enterprise Funds (including Enterprise CIP)	18,411,287
Internal Service Funds	2,683,922
General CIP Funds	18,641,852
Fiduciary Funds	159,778
Total	66,548,696

2. That the appropriated amounts do not include depreciation;

3. That the appropriated amounts do include transfers between funds;

4. That the unused appropriations at the end of Fiscal Year 2025-26 for capital projects, special projects, and grant projects that are unfinished and continuing into Fiscal Year 2026-27 shall be carried forward and become part of the Fiscal Year 2026-27 budget; an estimate of those balances to be carried forward is included in the adopted Fiscal Year 2026-27 budget, and the final carry-forward balances will be updated when the actual amounts are determined;

5. That during the Fiscal Year 2026-27, the annual budget may be amended by modification action when such amendments do not exceed the Appropriations Limit as calculated and set forth pursuant to Article XIIB of the Constitution of the State of California;

6. That during the Fiscal Year 2026-27, the General Fund and other previously authorized funds are hereby established in said budget, provided however, that additional funds may be established by appropriate action;

7. That the Position Control in the attached budget document is hereby approved;

8. That pursuant to the provisions of Section 2.08.050 of the Crescent City Municipal Code, the City Manager shall administer said budget in accordance with the appropriate provisions of the ordinances and resolutions of the City;

9. That during the Fiscal Year 2026-27, the City Manager may authorize budget transfers between expense categories within the same fund and department to meet the operational needs of each department;

10. That the Director of Finance / Treasurer is hereby authorized to execute interfund transfers during the course of the fiscal year in accordance with the budget;

11. That a true and correct copy of the Fiscal Year 2026-27 Annual Budget shall be filed in the office of the City Clerk.

PASSED AND ADOPTED and made effective the same day by the City Council of the City of Crescent City on this 15th day of June 2026, by the following polled vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Isaiah Wright, Mayor

ATTEST:

_____
Robin Altman, City Clerk

DRAFT

City of Crescent City
Original Budget
Fiscal Year 2026-27

Adopted by Resolution 2026-XX
Public Hearing: June 15, 2026

**** Subject to change by future Council resolution***

DRAFT

City of Crescent City
FY 2026-27 Annual Budget

	Budget Resolution	2 - 3
	Council Members	4
	Organizational Chart	5
	Fund Summaries	6

Fund #		
001	General Fund	7 - 27
	Special Revenue Funds	28 - 53
	Housing Authority Fund	
110	Housing Authority	29 - 34
	Community Development Block Grant Funds	
104	CDBG Program Income	35
107	CDBG Rehab Loans	36
153	CDBG 2020	37
154	CDBG Covid	38
155	CDBG 2022	39
158	CDBG 2023	40
159	CDBG 2023-A	41
161	CDBG 2024	42
	Other Special Revenue Funds	
106	Rehab & Sidewalk Loans	43
115	Gas Tax (HUTA)	44
116	Successor Housing	45
117	Gas Tax (Road Maint & Rehabilitation Account)	46
120	American Rescue Plan Act	47
121	Volunteer Firefighter Support	48
156	Clean California	49
157	CPLHA	50
160	PIP / PLHA	51
162	HOME Grant	52
163	OPC Grant	53
	Debt Service	54 - 55
301	Police Department Facility Debt Service	55
	Enterprise Funds	56 - 93
412	RV Park	57 - 64
413 + 913	Sewer + Sewer CIP	65 - 80
419 + 919	Water + Water CIP	81 - 93
	Internal Service Funds	94 - 999
420	Information Services	95
506	Building Maintenance	96
508	Equipment	97
620	Insurance	98
630	OPEB	99
	General (Non-Enterprise) CIP	100 - 106
901	General CIP	101 - 102
902	Beachfront Park Donations CIP	103
903	Pebble Beach Drive CIP	104
930	Fire Vehicle and Equipment Replacement	105
940	Police Vehicle Replacement	106
	Fiduciary Funds	107 - 108
991	RDA Successor Agency	108

	Cost Allocations	109 - 113
	Interfund Transfers	114 - 115
	Position Control	116 - 120
	Appropriations Limit (GANN Limit)	121 - 126
	Measure S Oversight Committee Resolution	128 - 131

RESOLUTION NO. 2026-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY ADOPTING THE ANNUAL BUDGET OF THE CITY OF CRESCENT CITY, INCLUDING ANY ATTACHMENTS AND/OR APPENDICES, FOR FISCAL YEAR 2026-27

WHEREAS, the budget for the fiscal year beginning July 1, 2026 and ending June 30, 2027, as submitted by the City Manager, has been reviewed by the City Council and a duly-noticed public hearing held thereon the 15th day of June 2026.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CRESCENT CITY, CALIFORNIA AS FOLLOWS:

1. That the Fiscal Year 2026-27 City of Crescent City Annual Budget is hereby appropriated in the amounts identified below and further described in the attached budget:

Fund	Expense / Expenditure
General Fund	11,609,035
Special Revenue Funds	15,042,822
Debt Service Funds	-
Enterprise Funds (including Enterprise CIP)	18,411,287
Internal Service Funds	2,683,922
General CIP Funds	18,641,852
Fiduciary Funds	159,778
Total	66,548,696

2. That the appropriated amounts do not include depreciation;

3. That the appropriated amounts do include transfers between funds;

4. That the unused appropriations at the end of Fiscal Year 2025-26 for capital projects, special projects, and grant projects that are unfinished and continuing into Fiscal Year 2026-27 shall be carried forward and become part of the Fiscal Year 2026-27 budget; an estimate of those balances to be carried forward is included in the adopted Fiscal Year 2026-27 budget, and the final carry-forward balances will be updated when the actual amounts are determined;

5. That during the Fiscal Year 2026-27, the annual budget may be amended by modification action when such amendments do not exceed the Appropriations Limit as calculated and set forth pursuant to Article XIIB of the Constitution of the State of California;

6. That during the Fiscal Year 2026-27, the General Fund and other previously authorized funds are hereby established in said budget, provided however, that additional funds may be established by appropriate action;

7. That the Position Control in the attached budget document is hereby approved;

8. That pursuant to the provisions of Section 2.08.050 of the Crescent City Municipal Code, the City Manager shall administer said budget in accordance with the appropriate provisions of the ordinances and resolutions of the City;

9. That during the Fiscal Year 2026-27, the City Manager may authorize budget transfers between expense categories within the same fund and department to meet the operational needs of each department;

10. That the Director of Finance / Treasurer is hereby authorized to execute interfund transfers during the course of the fiscal year in accordance with the budget;

11. That a true and correct copy of the Fiscal Year 2026-27 Annual Budget shall be filed in the office of the City Clerk.

PASSED AND ADOPTED and made effective the same day by the City Council of the City of Crescent City on this 15th day of June 2026, by the following polled vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Isaiah Wright, Mayor

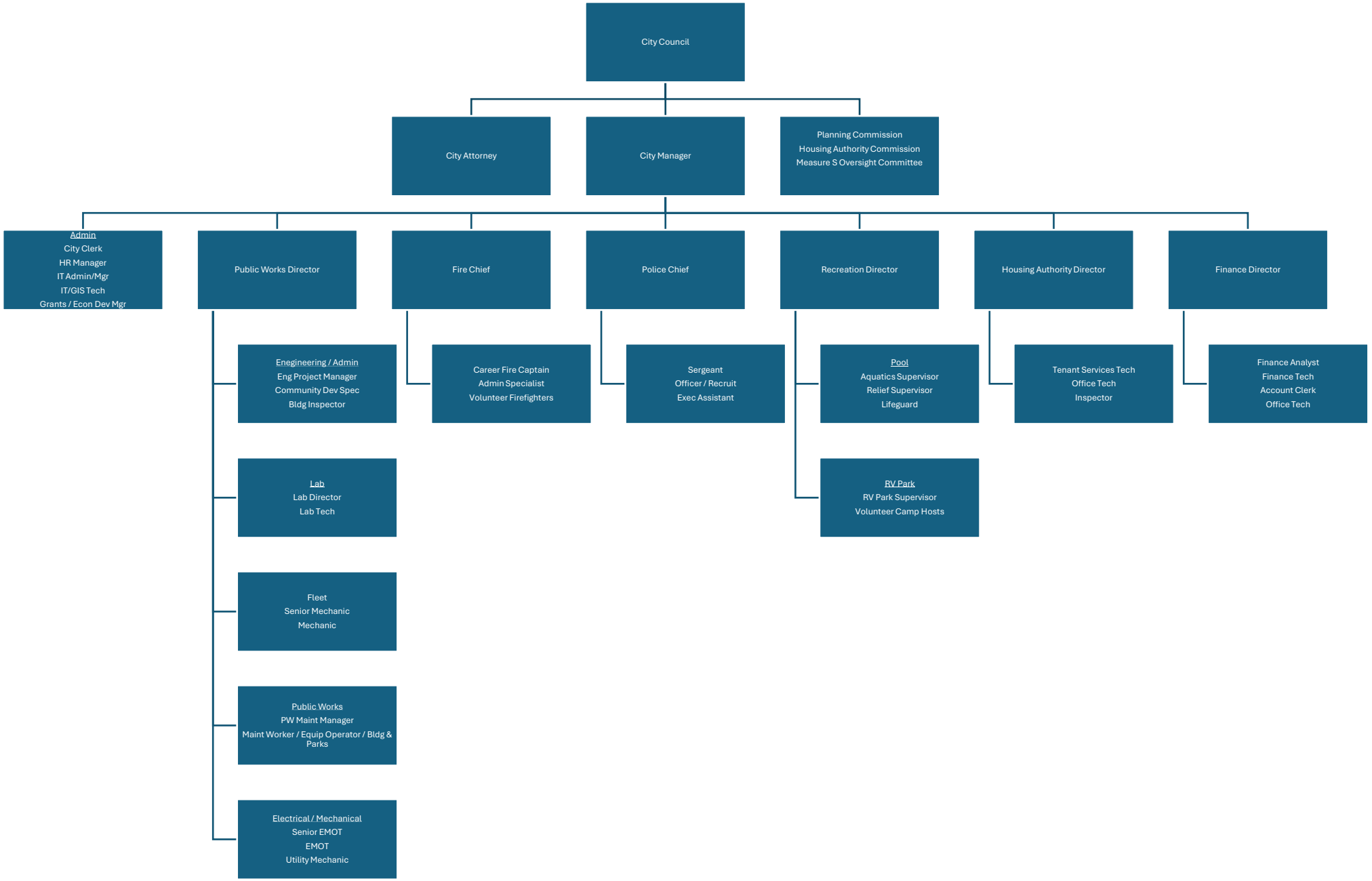
ATTEST:

_____
Robin Altman, City Clerk

City of Crescent City
FY 2026-27 Annual Budget

Isaiah Wright	Mayor
Candace Tinkler	Mayor Pro Tem
Ray Altman	Council Member
Jason Greenough	Council Member
Steve Shamblin	Council Member

DRAFT


City Council
City Attorney
City Manager
Planning Commission
Housing Authority Commission
Measure S Oversight Committee
Admin
City Clerk
HR Manager
IT Admin/Mgr
IT/GIS Tech
Grants / Econ Dev Mgr
Public Works Director
Fire Chief
Police Chief
Recreation Director
Housing Authority Director
Finance Director
Enegineering / Admin
Eng Project Manager
Community Dev Spec
Bldg Inspector
Career Fire Captain
Admin Specialist
Volunteer Firefighters
Sergeant
Officer / Recruit
Exec Assistant
Pool
Aquatics Supervisor
Relief Supervisor
Lifeguard
Tenant Services Tech
Office Tech
Inspector
Finance Analyst
Finance Tech
Account Clerk
Office Tech
Lab
Lab Director
Lab Tech
RV Park
RV Park Supervisor
Volunteer Camp Hosts
Fleet
Senior Mechanic
Mechanic
Public Works
PW Maint Manager
Maint Worker / Equip Operator / Bldg & Parks
Electrical / Mechanical
Senior EMOT
EMOT
Utility Mechanic

DRAFT

City of Crescent City FY 2026-27 Budget
Fund Summaries

		Audited Working Capital or Fund Balance * 6/30/2025	Budgeted Net Activity FY 2025-26	Budgeted Working Capital or Fund Balance * 6/30/2026	Estimated ** Net Activity FY 2025-26	Estimated ** Working Capital or Fund Balance * 6/30/2026	Proposed Revenues FY 2026-27	Proposed Expenditures / Expenses FY 2026-27	Proposed Net Activity FY 2026-27	Estimated Working Capital or Fund Balance * 6/30/2027
General Fund										
001	General Fund	4,539,754	(1,663,071)	2,876,683	(874,508)	3,665,246	10,551,253	(11,609,035)	(1,057,782)	2,607,464
Special Revenue Funds										
110	Housing Authority	468,245	(56,915)	411,330	(27,065)	441,180	5,243,898	(5,398,413)	(154,515)	286,665
104	CDBG Program Income (PI)	1,705	-	1,705	(505)	1,200	2,000	(2,000)	-	1,200
107	CDBG Loan Program	33,535	(2,000)	31,535	(1,200)	32,335	-	(2,000)	(2,000)	30,335
154	CDBG COVID	(698)	-	(698)	-	(698)	698	-	698	-
155	2022 CDBG	(56,805)	56,804	(1)	56,805	-	-	-	-	-
158	CDBG 2023	(1,217)	1,217	-	1,217	-	1,064,268	(1,064,268)	-	-
159	CDBG 2023-A	(3,363)	3,363	-	3,363	-	3,264,672	(3,264,672)	-	-
161	CDBG 2024	-	-	-	-	-	714,791	(714,791)	-	-
106	Rehab and Sidewalk Loans	68,980	-	68,980	-	68,980	-	-	-	68,980
115	Gas Tax	28,901	-	28,901	-	28,901	195,242	(195,242)	-	28,901
116	Successor Housing	649,087	-	649,087	-	649,087	-	-	-	649,087
117	RMRA	308,738	(165,796)	142,942	14,204	322,942	189,413	(427,200)	(237,787)	85,155
120	American Rescue Plan Act	64,201	(63,458)	743	-	64,201	-	(64,201)	(64,201)	-
121	Volunteer Firefighter Support	11,083	(640)	10,443	(640)	10,443	12,600	(23,043)	(10,443)	-
156	Clean California	(147,079)	147,803	724	147,804	725	2,569,720	(2,570,445)	(725)	-
157	CPLHA	24,946	-	24,946	-	24,946	181,354	(206,300)	(24,946)	-
160	PIP / PLHA	3,822	176	3,998	176	3,998	650,549	(650,550)	(1)	3,997
162	HOME Grant	-	-	-	-	-	138,786	(138,786)	-	-
163	OPC Grant	-	-	-	-	-	320,911	(320,911)	-	-
Debt Service Funds										
301	Police Department Facility Debt Service	-	132,000	132,000	132,000	132,000	-	-	-	132,000
Enterprise Funds										
412	RV Park	680,123	(231,607)	448,516	69,831	749,954	1,505,042	(1,726,187)	(221,145)	528,809
413	Sewer	3,137,329	(1,392,441)	1,744,888	(876,945)	2,260,384	6,858,511	(7,215,016)	(356,505)	1,903,879
913	Sewer CIP	1,201,979	(939,074)	262,905	(219,512)	982,467	1,800,528	(2,468,757)	(668,229)	314,238
419	Water	2,777,795	(468,720)	2,309,075	(176,401)	2,601,394	4,075,515	(4,287,018)	(211,503)	2,389,891
919	Water CIP	1,577,967	(1,329,879)	248,088	(106,906)	1,471,061	1,540,122	(2,714,309)	(1,174,187)	296,874
Internal Service Funds										
420	Info Tech Services	14,087	(2)	14,085	13,519	27,606	622,541	(639,022)	(16,481)	11,125
506	Building Services	(551)	-	(551)	-	(551)	238,501	(238,501)	-	(551)
508	Equipment Services	157,927	40,000	197,927	40,000	197,927	531,141	(491,141)	40,000	237,927
620	Insurance	189,659	(92,786)	96,873	57,444	247,103	957,298	(1,154,251)	(196,953)	50,150
630	OPEB	-	-	-	-	-	161,007	(161,007)	-	-
Capital Project & Acquisition Funds										
901	Capital Improvement Projects	1,490,122	(1,374,273)	115,849	391,565	1,881,687	8,461,448	(10,024,032)	(1,562,584)	319,103
902	Beachfront Park Donations	9,650	-	9,650	-	9,650	-	-	-	9,650
903	Pebble Beach CIP	(4,735,517)	4,799,986	64,469	98,274	(4,637,243)	13,403,593	(8,531,491)	4,872,102	234,859
930	Fire Veh & Equip Replacement	653,348	8,393	661,741	25,641	678,989	155,500	-	155,500	834,489
940	Police Vehicle Replacement	6,153	-	6,153	176	6,329	80,000	(86,329)	(6,329)	-

* General Fund, Special Revenue, and General Capital Funds use Fund Balance. Enterprise Funds and Internal Service Funds use Working Capital.

		Audited Fund Balance 6/30/2025	Budgeted Net Activity FY 2025-26	Budgeted Fund Balance 6/30/2026	Estimated ** Net Activity FY 2025-26	Estimated ** Fund Balance 6/30/2026	Proposed Revenues FY 2026-27	Proposed Expenditures / Expenses FY 2026-27	Proposed Net Activity FY 2026-27	Estimated Fund Balance 6/30/2027
Fiduciary Funds										
991	Successor Agency	(254,354)	45,387	(208,967)	144,957	(109,397)	-	(159,778)	(159,778)	(109,397)

** Projected activity is an estimate only, based on year-to-date experience. Actual results will not be known until the fiscal year ends and the audit is complete. Results will vary from estimated amounts.

General Fund

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: n/a General Fund - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	7,404,765	7,571,802	7,516,641	7,679,300	7,680,627	7,760,300	79,673	1%
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	335,957	445,972	783,145	374,185	427,331	394,185	(33,146)	-8%
Fines & Penalties	18,145	11,934	19,447	4,600	18,720	11,100	(7,620)	-41%
Other Operating Sources	201,753	196,425	88,550	259,174	146,836	244,482	97,646	67%
Operating Grants/Contributions	321,657	564,400	406,163	598,917	544,849	498,663	(46,186)	-8%
Charges for Services	780,991	1,513,692	946,884	1,676,562	1,381,652	1,201,158	(180,494)	-13%
Subtotal	9,063,268	10,304,225	9,760,830	10,592,738	10,200,015	10,109,888	(90,127)	-1%
Financing Sources								
Interest Income	87,930	225,900	238,040	180,000	183,196	100,000	(83,196)	-45%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	87,930	225,900	238,040	180,000	183,196	100,000	(83,196)	-45%
Capital Sources								
Capital Leases/Rentals	32,204	35,494	31,903	38,600	38,600	71,700	33,100	86%
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	32,204	35,494	31,903	38,600	38,600	71,700	33,100	86%
Internal Sources								
Interfund Transfers In	279,581	273,421	238,201	298,289	298,289	269,665	(28,624)	-10%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	215,999	234,224	-	-	-	-	-	
Subtotal	495,580	507,645	238,201	298,289	298,289	269,665	(28,624)	-10%
TOTAL SOURCES	**9,678,982**	**11,073,264**	**10,268,974**	**11,109,627**	**10,720,100**	**10,551,253**	**(168,847)**	**-2%**
Operating Uses								
Wages, Salaries, Stipends	2,988,239	3,710,101	3,615,043	4,372,323	4,022,017	4,148,296	126,279	3%
Benefits	1,568,736	1,871,045	1,921,996	2,287,458	2,211,539	2,455,571	244,032	11%
Utilities & Telephone	321,138	319,780	335,216	394,110	394,320	445,153	50,833	13%
Materials & Supplies	748,567	893,955	904,480	1,036,769	919,108	689,419	(229,689)	-25%
Contracts & Services	1,145,269	1,329,086	1,706,036	2,042,467	1,561,851	1,797,438	235,587	15%
Employee Support	127,523	152,214	152,457	219,635	148,606	223,338	74,732	50%
Grants/Contributions to Others	222,853	236,969	178,812	182,678	180,252	144,360	(35,892)	-20%
Other Operating Uses	120,159	112,468	191,275	217,332	200,128	221,980	21,852	11%
Subtotal	7,242,484	8,625,618	9,005,315	10,752,772	9,637,821	10,125,555	487,734	5%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	5,000	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	5,000	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	1,501,303	1,369,480	1,333,920	1,366,198	1,350,059	793,100	(556,959)	-41%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	450,009	477,362	566,037	653,728	606,728	690,380	83,652	14%
Subtotal	1,951,312	1,846,842	1,899,957	2,019,926	1,956,787	1,483,480	(473,307)	-24%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**9,198,796**	**10,472,460**	**10,905,272**	**12,772,698**	**11,594,608**	**11,609,035**	**14,427**	**0%**
NET	**480,186**	**600,804**	**(636,298)**	**(1,663,071)**	**(874,508)**	**(1,057,782)**	**(183,274)**	**21%**
ENDING FUND BALANCE	**4,575,246**	**5,176,051**	**4,539,754**	**2,876,683**	**3,665,246**	**2,607,464**	**(1,057,782)**	**-29%**

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 000 Non-Departmental

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	7,404,765	7,571,802	7,516,641	7,679,300	7,680,627	7,760,300	79,673	1%
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	261,508	264,255	299,340	303,035	306,265	303,035	(3,230)	-1%
Fines & Penalties	16,708	4,031	7,229	1,000	11,247	7,500	(3,747)	-33%
Other Operating Sources	2,383	15,035	13,239	10,150	14,006	10,150	(3,856)	-28%
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	7,685,364	7,855,123	7,836,449	7,993,485	8,012,145	8,080,985	68,840	1%
Financing Sources								
Interest Income	87,930	225,900	238,040	180,000	183,196	100,000	(83,196)	-45%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	87,930	225,900	238,040	180,000	183,196	100,000	(83,196)	-45%
Capital Sources								
Capital Leases/Rentals	32,204	35,494	31,903	38,600	38,600	71,700	33,100	86%
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	32,204	35,494	31,903	38,600	38,600	71,700	33,100	86%
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**7,805,498**	**8,116,517**	**8,106,392**	**8,212,085**	**8,233,941**	**8,252,685**	**18,744**	**0%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	116,273	109,702	187,298	210,131	194,873	214,330	19,457	10%
Subtotal	116,273	109,702	187,298	210,131	194,873	214,330	19,457	10%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**116,273**	**109,702**	**187,298**	**210,131**	**194,873**	**214,330**	**19,457**	**10%**
NET	**7,689,225**	**8,006,815**	**7,919,094**	**8,001,954**	**8,039,068**	**8,038,355**	**(713)**	**0%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 110 City Council
* Budgeted as internal service fund charge until FY 24-25; beginning FY 24-25, budgeted directly to various funds

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	5,000	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	5,000	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	79,947	96,418	-	-	-	-	-	
Subtotal	79,947	96,418	-	-	-	-	-	
TOTAL SOURCES	**79,947**	**101,418**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	34,400	38,066	11,910	11,534	11,534	12,316	782	7%
Benefits	75,569	89,705	16,644	12,380	12,423	23,250	10,827	87%
Utilities & Telephone	2,714	2,338	1,543	1,710	889	1,710	821	92%
Materials & Supplies	1,448	7,770	313	592	57	592	535	939%
Contracts & Services	170	-	-	-	-	-	-	
Employee Support	3,268	3,937	102	3,560	1,426	2,443	1,017	71%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	117,569	141,816	30,512	29,776	26,329	40,311	13,982	53%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	5,686	7,442	2,515	1,765	1,682	2,576	894	53%
Subtotal	5,686	7,442	2,515	1,765	1,682	2,576	894	53%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**123,255**	**149,258**	**33,027**	**31,541**	**28,011**	**42,887**	**14,876**	**53%**
NET	**(43,308)**	**(47,840)**	**(33,027)**	**(31,541)**	**(28,011)**	**(42,887)**	**(14,876)**	**53%**

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 111 City Manager

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	620	1,423	419	92,377	35,540	57,837	22,297	63%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	620	1,423	419	92,377	35,540	57,837	22,297	63%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**620**	**1,423**	**419**	**92,377**	**35,540**	**57,837**	**22,297**	**63%**
Operating Uses								
Wages, Salaries, Stipends	42,346	47,857	50,422	55,653	54,734	56,822	2,088	4%
Benefits	25,204	29,134	31,414	34,625	34,728	38,045	3,317	10%
Utilities & Telephone	740	692	889	820	694	825	131	19%
Materials & Supplies	832	295	267	1,675	1,465	408	(1,057)	-72%
Contracts & Services	987	1,663	509	64,377	4,610	59,837	55,227	1198%
Employee Support	2,968	2,559	2,402	3,318	2,386	2,150	(236)	-10%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	73,077	82,200	85,903	160,468	98,617	158,087	59,470	60%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	15,000	14,210	-	(14,210)	-100%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	6,668	7,336	8,838	9,845	9,133	10,939	1,806	20%
Subtotal	6,668	7,336	8,838	24,845	23,343	10,939	(12,404)	-53%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**79,745**	**89,536**	**94,741**	**185,313**	**121,960**	**169,026**	**47,066**	**39%**
NET	**(79,125)**	**(88,113)**	**(94,322)**	**(92,936)**	**(86,420)**	**(111,189)**	**(24,769)**	**29%**

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 112 Community Support
* Included Grants & Econ Devel FY 21-22 through FY 25-26. Beginning FY 26-27, Grants & Econ Devel is a separate department (140).

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	7,703	-	6,558	-	-	1,000	1,000	
Operating Grants/Contributions	1,745	543	1,410	76,000	17,568	-	(17,568)	-100%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	9,448	543	7,968	76,000	17,568	1,000	(16,568)	-94%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	96,862	89,020	21,983	64,000	64,000	-	(64,000)	-100%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	96,862	89,020	21,983	64,000	64,000	-	(64,000)	-100%
TOTAL SOURCES	**106,310**	**89,563**	**29,951**	**140,000**	**81,568**	**1,000**	**(80,568)**	**-99%**
Operating Uses								
Wages, Salaries, Stipends	70,044	89,106	85,389	114,525	101,561	48,316	(53,245)	-52%
Benefits	36,856	41,924	38,724	52,224	52,545	26,552	(25,993)	-49%
Utilities & Telephone	2,441	9,259	6,766	9,460	6,579	595	(5,984)	-91%
Materials & Supplies	23,815	37,060	44,827	36,545	34,673	17,540	(17,133)	-49%
Contracts & Services	42,032	22,331	42,629	254,169	121,670	12,094	(109,576)	-90%
Employee Support	2,390	4,626	419	2,010	1,237	430	(807)	-65%
Grants/Contributions to Others	163,000	179,000	112,037	113,000	112,000	-	(112,000)	-100%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	340,578	383,306	330,791	581,933	430,265	105,527	(324,738)	-75%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	5,000	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	5,000	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	30,350	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	5,252	7,430	8,645	11,797	11,079	5,421	(5,658)	-51%
Subtotal	5,252	7,430	38,995	11,797	11,079	5,421	(5,658)	-51%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**350,830**	**390,736**	**369,786**	**593,730**	**441,344**	**110,948**	**(330,396)**	**-75%**
NET	**(244,520)**	**(301,173)**	**(339,835)**	**(453,730)**	**(359,776)**	**(109,948)**	**249,828**	**-69%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 113 City Clerk
* Budgeted as internal service fund charge until FY 24-25; beginning FY 24-25, budgeted directly to various funds

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	99,076	100,237	-	-	-	-	-	
Subtotal	99,076	100,237	-	-	-	-	-	
TOTAL SOURCES	**99,076**	**100,237**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	78,416	84,232	27,693	27,976	28,054	29,252	1,198	4%
Benefits	37,958	43,419	17,860	18,965	19,043	21,226	2,183	11%
Utilities & Telephone	2,037	1,876	1,284	746	506	755	249	49%
Materials & Supplies	1,780	1,687	1,104	566	936	1,225	289	31%
Contracts & Services	24,859	16,130	7,130	4,989	4,908	8,774	3,866	79%
Employee Support	659	65	304	88	168	568	400	238%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	145,709	147,409	55,375	53,330	53,615	61,800	8,185	15%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	6,002	7,115	2,790	3,236	2,947	3,656	709	24%
Subtotal	6,002	7,115	2,790	3,236	2,947	3,656	709	24%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**151,711**	**154,524**	**58,165**	**56,566**	**56,562**	**65,456**	**8,894**	**16%**
NET	**(52,635)**	**(54,287)**	**(58,165)**	**(56,566)**	**(56,562)**	**(65,456)**	**(8,894)**	**16%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 114 Human Resources and Safety
* Budgeted as internal service fund charge until FY 24-25; beginning FY 24-25, budgeted directly to various funds

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	50	-	-	-	30	-	(30)	-100%
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	50	-	-	-	30	-	(30)	-100%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	1,747	-	13,223	23,795	23,795	35,423	11,628	49%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	36,976	37,569	-	-	-	-	-	
Subtotal	38,723	37,569	13,223	23,795	23,795	35,423	11,628	49%
TOTAL SOURCES	**38,773**	**37,569**	**13,223**	**23,795**	**23,825**	**35,423**	**11,598**	**49%**
Operating Uses								
Wages, Salaries, Stipends	74,656	48,252	4,500	44,112	44,762	68,700	23,938	53%
Benefits	42,371	32,036	12,148	36,583	36,812	51,246	14,434	39%
Utilities & Telephone	2,101	1,938	1,209	1,701	1,701	1,317	(384)	-23%
Materials & Supplies	4,274	5,702	3,119	2,030	2,030	2,277	247	12%
Contracts & Services	1,249	33,764	71,082	32,290	32,290	25,105	(7,185)	-22%
Employee Support	3,088	4,007	1,541	5,801	5,801	7,748	1,947	34%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	127,739	125,699	93,599	122,517	123,396	156,393	32,997	27%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	5,884	7,308	2,534	6,009	5,746	8,687	2,941	51%
Subtotal	5,884	7,308	2,534	6,009	5,746	8,687	2,941	51%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**133,623**	**133,007**	**96,133**	**128,526**	**129,142**	**165,080**	**35,938**	**28%**
NET	**(94,850)**	**(95,438)**	**(82,910)**	**(104,731)**	**(105,317)**	**(129,657)**	**(24,340)**	**23%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 120 Finance

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	900	(400)	-	300	-	(300)	-100%
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	900	(400)	-	300	-	(300)	-100%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**900**	**(400)**	**-**	**300**	**-**	**(300)**	**-100%**
Operating Uses								
Wages, Salaries, Stipends	107,455	113,081	137,567	181,860	175,294	184,658	9,364	5%
Benefits	63,766	69,441	75,936	105,829	97,107	108,696	11,589	12%
Utilities & Telephone	3,402	3,281	3,531	4,577	3,120	3,559	439	14%
Materials & Supplies	8,149	14,126	17,719	19,070	13,540	14,496	956	7%
Contracts & Services	36,588	34,586	68,247	73,268	54,239	60,734	6,495	12%
Employee Support	1,130	2,719	4,888	4,667	2,325	3,348	1,023	44%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	220,490	237,234	307,888	389,271	345,625	375,491	29,866	9%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	10,448	13,076	13,797	19,744	17,923	21,245	3,322	19%
Subtotal	10,448	13,076	13,797	19,744	17,923	21,245	3,322	19%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**230,938**	**250,310**	**321,685**	**409,015**	**363,548**	**396,736**	**33,188**	**9%**
NET	**(230,938)**	**(249,410)**	**(322,085)**	**(409,015)**	**(363,248)**	**(396,736)**	**(33,488)**	**9%**

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 130 City Attorney

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	42,798	44,968	47,744	59,243	57,043	59,945	2,902	5%
Benefits	22,090	23,724	26,344	29,874	29,853	34,696	4,843	16%
Utilities & Telephone	586	535	713	895	636	885	249	39%
Materials & Supplies	265	353	911	1,375	1,366	580	(786)	-58%
Contracts & Services	1,090	257	28,978	11,500	3,469	1,500	(1,969)	-57%
Employee Support	2,244	2,241	2,350	4,288	2,997	3,719	722	24%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	69,073	72,078	107,040	107,175	95,364	101,325	5,961	6%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	3,167	4,052	4,490	5,890	5,205	6,854	1,649	32%
Subtotal	3,167	4,052	4,490	5,890	5,205	6,854	1,649	32%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**72,240**	**76,130**	**111,530**	**113,065**	**100,569**	**108,179**	**7,610**	**8%**
NET	**(72,240)**	**(76,130)**	**(111,530)**	**(113,065)**	**(100,569)**	**(108,179)**	**(7,610)**	**8%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: **001** **General Fund**
Dept: **140** **Grants & Economic Development**
* This was included in Community Support (112) FY 21-22 through FY 25-26. Beginning FY 26-27, Grants & Econ Devel is a separate department.

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	262,000	262,000	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	262,000	262,000	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**262,000**	**262,000**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	60,845	60,845	
Benefits	-	-	-	-	-	32,777	32,777	
Utilities & Telephone	-	-	-	-	-	8,137	8,137	
Materials & Supplies	-	-	-	-	-	9,025	9,025	
Contracts & Services	-	-	-	-	-	274,867	274,867	
Employee Support	-	-	-	-	-	1,630	1,630	
Grants/Contributions to Others	-	-	-	-	-	107,000	107,000	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	494,281	494,281	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	6,779	6,779	
Subtotal	-	-	-	-	-	6,779	6,779	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**-**	**-**	**-**	**501,060**	**501,060**	
NET	**-**	**-**	**-**	**-**	**-**	**(239,060)**	**(239,060)**	

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 230 Fire

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	26,351	143,109	2,500	19,348	19,348	4,700	(14,648)	-76%
Operating Grants/Contributions	14,723	17,000	19,900	20,732	19,525	-	(19,525)	-100%
Charges for Services	474,910	974,743	720,566	1,415,032	1,099,682	885,128	(214,554)	-20%
Subtotal	515,984	1,134,852	742,966	1,455,112	1,138,555	889,828	(248,727)	-22%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	10,000	10,000	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	10,000	10,000	
TOTAL SOURCES	**515,984**	**1,134,852**	**742,966**	**1,455,112**	**1,138,555**	**899,828**	**(238,727)**	**-21%**
Operating Uses								
Wages, Salaries, Stipends	458,909	901,936	908,165	1,073,518	846,291	850,906	4,615	1%
Benefits	145,565	279,182	307,869	328,409	300,202	345,712	45,510	15%
Utilities & Telephone	17,321	18,468	20,829	22,191	20,838	25,119	4,281	21%
Materials & Supplies	147,709	378,824	406,457	312,330	273,120	176,700	(96,420)	-35%
Contracts & Services	44,139	34,810	48,764	65,147	42,943	61,262	18,319	43%
Employee Support	32,309	38,097	56,269	72,413	35,133	103,313	68,180	194%
Grants/Contributions to Others	20,000	20,000	20,000	20,000	20,000	20,000	-	0%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	865,952	1,671,317	1,768,353	1,894,008	1,538,527	1,583,012	44,485	3%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	48,000	253,384	345,391	240,948	240,948	173,100	(67,848)	-28%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	87,775	88,792	112,791	137,457	126,105	132,206	6,101	5%
Subtotal	135,775	342,176	458,182	378,405	367,053	305,306	(61,747)	-17%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**1,001,727**	**2,013,493**	**2,226,535**	**2,272,413**	**1,905,580**	**1,888,318**	**(17,262)**	**-1%**
NET	**(485,743)**	**(878,641)**	**(1,483,569)**	**(817,301)**	**(767,025)**	**(988,490)**	**(221,465)**	**29%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 240 Police

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	1,437	7,003	12,618	3,600	7,173	3,600	(3,573)	-50%
Other Operating Sources	64,478	19,665	2,986	114,926	111,583	110,382	(1,201)	-1%
Operating Grants/Contributions	194,771	275,693	343,554	391,308	446,959	167,326	(279,633)	-63%
Charges for Services	2,863	3,198	3,070	3,275	3,130	3,275	145	5%
Subtotal	263,549	305,559	362,228	513,109	568,845	284,583	(284,262)	-50%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-				-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	9,000	9,000	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	9,000	9,000	
TOTAL SOURCES	**263,549**	**305,559**	**362,228**	**513,109**	**568,845**	**293,583**	**(275,262)**	**-48%**
Operating Uses								
Wages, Salaries, Stipends	1,177,215	1,385,586	1,391,307	1,632,137	1,580,928	1,637,353	56,425	4%
Benefits	723,953	865,527	915,904	1,100,296	1,069,428	1,194,308	124,880	12%
Utilities & Telephone	22,669	29,734	37,855	32,740	43,596	36,000	(7,596)	-17%
Materials & Supplies	304,407	246,649	230,196	332,773	321,998	192,550	(129,448)	-40%
Contracts & Services	236,642	302,397	331,070	506,531	451,213	497,281	46,068	10%
Employee Support	68,901	80,403	61,274	83,265	81,090	80,900	(190)	0%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	2,533,787	2,910,296	2,967,606	3,687,742	3,548,253	3,638,392	90,139	3%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	270,000	140,000	170,000	132,000	132,000	80,000	(52,000)	-39%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	135,156	158,541	184,178	211,896	191,989	234,537	42,548	22%
Subtotal	405,156	298,541	354,178	343,896	323,989	314,537	(9,452)	-3%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**2,938,943**	**3,208,837**	**3,321,784**	**4,031,638**	**3,872,242**	**3,952,929**	**80,687**	**2%**
NET	**(2,675,394)**	**(2,903,278)**	**(2,959,556)**	**(3,518,529)**	**(3,303,397)**	**(3,659,346)**	**(355,949)**	**11%**

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 250 Code Enforcement

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	61,839	316	32,324	100,000	-	100,000	100,000	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	61,839	316	32,324	100,000	-	100,000	100,000	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**61,839**	**316**	**32,324**	**100,000**	**-**	**100,000**	**100,000**	
Operating Uses								
Wages, Salaries, Stipends	26,234	30,280	29,531	34,415	34,284	40,384	6,100	18%
Benefits	13,198	14,569	16,589	18,489	18,906	25,097	6,191	33%
Utilities & Telephone	582	572	801	3,788	747	1,813	1,066	143%
Materials & Supplies	191	161	224	480	255	280	25	10%
Contracts & Services	52,435	82,680	160,456	132,040	131,875	62,040	(69,835)	-53%
Employee Support	-	-	-	300	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	92,640	128,262	207,601	189,512	186,067	129,614	(56,453)	-30%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	1,994	2,611	2,820	3,553	3,177	4,742	1,565	49%
Subtotal	1,994	2,611	2,820	3,553	3,177	4,742	1,565	49%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**94,634**	**130,873**	**210,421**	**193,065**	**189,244**	**134,356**	**(54,888)**	**-29%**
NET	**(32,795)**	**(130,557)**	**(178,097)**	**(93,065)**	**(189,244)**	**(34,356)**	**154,888**	**-82%**

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 251 Building Inspection

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	74,224	180,792	482,855	70,050	120,916	90,050	(30,866)	-26%
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	3,000	-	6,500	6,500	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	42,218	295,164	33,455	20,000	48,710	78,500	29,790	61%
Subtotal	116,442	475,956	516,310	93,050	169,626	175,050	5,424	3%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**116,442**	**475,956**	**516,310**	**93,050**	**169,626**	**175,050**	**5,424**	**3%**
Operating Uses								
Wages, Salaries, Stipends	28,350	40,408	86,828	61,779	47,826	57,450	9,624	20%
Benefits	10,806	12,799	41,752	39,532	31,471	32,979	1,508	5%
Utilities & Telephone	458	606	1,475	1,391	1,793	2,001	208	12%
Materials & Supplies	254	2,624	701	1,600	1,523	1,125	(398)	-26%
Contracts & Services	6,094	149,639	16,037	56,900	10,971	55,000	44,029	401%
Employee Support	1,463	5,026	5,274	7,750	3,333	6,500	3,167	95%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	47,425	211,102	152,067	168,952	96,917	155,055	58,138	60%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	33,754	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	2,067	2,909	8,938	8,466	8,620	6,548	(2,072)	-24%
Subtotal	2,067	2,909	42,692	8,466	8,620	6,548	(2,072)	-24%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**49,492**	**214,011**	**194,759**	**177,418**	**105,537**	**161,603**	**56,066**	**53%**
NET	**66,950**	**261,945**	**321,551**	**(84,368)**	**64,089**	**13,447**	**(50,642)**	**-79%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 313 Planning

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	225	925	950	1,100	150	1,100	950	633%
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	1,000	-	-	-	-	
Operating Grants/Contributions	43,902	216,564	8,658	-	90	-	(90)	-100%
Charges for Services	13,848	11,454	12,248	10,000	5,909	10,000	4,091	69%
Subtotal	57,975	228,943	22,856	11,100	6,149	11,100	4,951	81%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**57,975**	**228,943**	**22,856**	**11,100**	**6,149**	**11,100**	**4,951**	**81%**
Operating Uses								
Wages, Salaries, Stipends	43,925	54,975	45,732	47,948	46,140	49,265	3,125	7%
Benefits	23,912	27,942	27,517	27,600	27,581	31,765	4,184	15%
Utilities & Telephone	707	669	614	900	316	840	524	166%
Materials & Supplies	892	951	567	1,400	735	1,250	515	70%
Contracts & Services	309,595	236,133	196,568	200,300	198,000	189,000	(9,000)	-5%
Employee Support	1,142	-	60	6,500	-	750	750	
Grants/Contributions to Others	39,853	37,969	46,775	49,678	48,252	17,360	(30,892)	-64%
Other Operating Uses	1,375	1,450	1,400	1,500	1,500	1,500	-	0%
Subtotal	421,401	360,089	319,233	335,826	322,524	291,730	(30,794)	-10%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	3,282	4,059	4,528	5,068	4,523	5,868	1,345	30%
Subtotal	3,282	4,059	4,528	5,068	4,523	5,868	1,345	30%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**424,683**	**364,148**	**323,761**	**340,894**	**327,047**	**297,598**	**(29,449)**	**-9%**
NET	**(366,708)**	**(135,205)**	**(300,905)**	**(329,794)**	**(320,898)**	**(286,498)**	**34,400**	**-11%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 350 Public Works - Admin

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	35,566	54,578	71,194	88,765	85,564	92,765	7,201	8%
Benefits	22,082	32,480	44,514	52,610	52,588	60,338	7,750	15%
Utilities & Telephone	5,286	5,536	5,416	6,375	1,975	6,380	4,405	223%
Materials & Supplies	5,473	4,619	2,871	3,850	3,097	3,450	353	11%
Contracts & Services	25,652	2,561	1,988	4,377	3,507	6,040	2,533	72%
Employee Support	2,340	1,455	1,869	3,400	2,301	1,600	(701)	-30%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	96,399	101,229	127,852	159,377	149,032	170,573	21,541	14%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	4,471	5,842	7,114	9,662	8,749	11,087	2,338	27%
Subtotal	4,471	5,842	7,114	9,662	8,749	11,087	2,338	27%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**100,870**	**107,071**	**134,966**	**169,039**	**157,781**	**181,660**	**23,879**	**15%**
NET	**(100,870)**	**(107,071)**	**(134,966)**	**(169,039)**	**(157,781)**	**(181,660)**	**(23,879)**	**15%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 364 Public Works - Streets

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	22,976	8,860	24,324	9,000	781	9,000	8,219	1052%
Operating Grants/Contributions	40,764	18,882	-	2,000	4,812	2,000	(2,812)	-58%
Charges for Services	4,202	2,022	32	-	96	-	(96)	-100%
Subtotal	67,942	29,764	24,356	11,000	5,689	11,000	5,311	93%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	171,234	184,401	202,995	210,494	210,494	202,942	(7,552)	-4%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	171,234	184,401	202,995	210,494	210,494	202,942	(7,552)	-4%
TOTAL SOURCES	**239,176**	**214,165**	**227,351**	**221,494**	**216,183**	**213,942**	**(2,241)**	**-1%**
Operating Uses								
Wages, Salaries, Stipends	170,902	155,119	145,470	178,172	175,996	141,310	(34,686)	-20%
Benefits	104,255	91,829	89,117	113,229	114,398	94,095	(20,303)	-18%
Utilities & Telephone	56,813	61,108	74,509	81,310	87,666	100,945	13,279	15%
Materials & Supplies	122,954	72,534	61,360	136,380	108,280	112,031	3,751	3%
Contracts & Services	176,672	226,021	510,764	462,452	372,165	309,285	(62,880)	-17%
Employee Support	-	844	6,202	11,500	5,993	-	(5,993)	-100%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	200	1,701	2,751	3,126	3,200	74	2%
Subtotal	631,596	607,655	889,123	985,794	867,624	760,866	(106,758)	-12%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	1,046,753	673,775	562,601	649,150	646,057	540,000	(106,057)	-16%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	79,787	68,442	86,263	90,903	88,598	92,681	4,083	5%
Subtotal	1,126,540	742,217	648,864	740,053	734,655	632,681	(101,974)	-14%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**1,758,136**	**1,349,872**	**1,537,987**	**1,725,847**	**1,602,279**	**1,393,547**	**(208,732)**	**-13%**
NET	**(1,518,960)**	**(1,135,707)**	**(1,310,636)**	**(1,504,353)**	**(1,386,096)**	**(1,179,605)**	**206,491**	**-15%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 470 Public Works - Parks

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	12,002	3,043	4,836	-	157	-	(157)	-100%
Operating Grants/Contributions	2,059	146	1,250	4,000	13,775	4,000	(9,775)	-71%
Charges for Services	1,192	855	1,750	1,000	664	1,000	336	51%
Subtotal	15,253	4,044	7,836	5,000	14,596	5,000	(9,596)	-66%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	10,000	10,000	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	10,000	10,000	
TOTAL SOURCES	**15,253**	**4,044**	**7,836**	**5,000**	**14,596**	**15,000**	**404**	**3%**
Operating Uses								
Wages, Salaries, Stipends	164,875	142,955	148,460	217,767	214,690	207,366	(7,324)	-3%
Benefits	80,742	54,885	82,928	117,395	115,063	117,113	2,050	2%
Utilities & Telephone	29,223	33,177	37,406	48,479	46,681	76,670	29,989	64%
Materials & Supplies	54,305	57,952	73,268	122,632	96,711	67,540	(29,171)	-30%
Contracts & Services	88,894	45,367	68,360	63,976	65,034	62,750	(2,284)	-4%
Employee Support	500	351	295	5,125	-	26	26	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	418,539	334,687	410,717	575,374	538,179	531,465	(6,714)	-1%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	6,550	12,321	41,824	38,100	25,844	-	(25,844)	-100%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	63,740	55,934	72,946	76,365	73,292	80,913	7,621	10%
Subtotal	70,290	68,255	114,770	114,465	99,136	80,913	(18,223)	-18%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**488,829**	**402,942**	**525,487**	**689,839**	**637,315**	**612,378**	**(24,937)**	**-4%**
NET	**(473,576)**	**(398,898)**	**(517,651)**	**(684,839)**	**(622,719)**	**(597,378)**	**25,341**	**-4%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 471 Cultural Center

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	21,523	25,000	25,000	10,000	-	-	-	
Charges for Services	38,141	13,113	12,913	6,200	4,176	5,000	824	20%
Subtotal	59,664	38,113	37,913	16,200	4,176	5,000	824	20%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	8,400	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	8,400	-	-	-	-	-	-	
TOTAL SOURCES	**68,064**	**38,113**	**37,913**	**16,200**	**4,176**	**5,000**	**824**	**20%**
Operating Uses								
Wages, Salaries, Stipends	26,290	32,217	21,947	35,929	34,127	29,193	(4,934)	-14%
Benefits	16,145	16,576	17,111	23,652	23,330	21,689	(1,641)	-7%
Utilities & Telephone	30,820	30,465	36,772	30,884	31,858	25,374	(6,484)	-20%
Materials & Supplies	16,996	2,589	2,185	5,925	4,029	4,625	596	15%
Contracts & Services	40,766	115,176	38,242	72,214	31,630	72,054	40,424	128%
Employee Support	-	249	-	-	-	20	20	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	131,017	197,272	116,257	168,604	124,974	152,955	27,981	22%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	16,000	16,000	-	(16,000)	-100%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	2,521	3,005	3,592	4,223	3,918	3,685	(233)	-6%
Subtotal	2,521	3,005	3,592	20,223	19,918	3,685	(16,233)	-81%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**133,538**	**200,277**	**119,849**	**188,827**	**144,892**	**156,640**	**11,748**	**8%**
NET	**(65,474)**	**(162,164)**	**(81,936)**	**(172,627)**	**(140,716)**	**(151,640)**	**(10,924)**	**8%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 001 General Fund
Dept: 480 Fred Endert Municipal Swimming Pool

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	3,971	1,397	783	2,750	931	2,750	1,819	195%
Operating Grants/Contributions	1,550	9,149	5,972	2,500	6,580	5,500	(1,080)	-16%
Charges for Services	203,617	213,143	162,850	221,055	219,285	218,255	(1,030)	0%
Subtotal	209,138	223,689	169,605	226,305	226,796	226,505	(291)	0%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	1,338	-	-	-	-	2,300	2,300	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	1,338	-	-	-	-	2,300	2,300	
TOTAL SOURCES	**210,476**	**223,689**	**169,605**	**226,305**	**226,796**	**228,805**	**2,009**	**1%**
Operating Uses								
Wages, Salaries, Stipends	405,858	446,485	401,184	506,990	483,189	521,450	38,261	8%
Benefits	124,264	145,873	159,625	175,766	176,061	195,987	19,926	11%
Utilities & Telephone	143,238	119,526	103,604	146,143	144,725	152,228	7,503	5%
Materials & Supplies	54,823	60,059	58,391	57,546	55,293	83,725	28,432	51%
Contracts & Services	57,405	25,571	115,212	37,937	33,327	39,815	6,488	19%
Employee Support	5,121	5,635	9,208	5,650	4,416	8,193	3,777	86%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	2,511	1,116	876	2,950	629	2,950	2,321	369%
Subtotal	793,220	804,265	848,100	932,982	897,640	1,004,348	106,708	12%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	130,000	290,000	150,000	275,000	275,000	-	(275,000)	-100%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	26,109	33,468	39,258	47,849	44,042	51,956	7,914	18%
Subtotal	156,109	323,468	189,258	322,849	319,042	51,956	(267,086)	-84%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**949,329**	**1,127,733**	**1,037,358**	**1,255,831**	**1,216,682**	**1,056,304**	**(160,378)**	**-13%**
NET	**(738,853)**	**(904,044)**	**(867,753)**	**(1,029,526)**	**(989,886)**	**(827,499)**	**162,387**	**-16%**

Special Revenue Funds

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 110 Housing Authority
Dept: n/a All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	36,635	24,032	39,825	33,614	43,434	34,344	(9,090)	-21%
Operating Grants/Contributions	3,709,601	4,010,734	4,359,319	4,805,334	4,805,257	5,206,554	401,297	8%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	3,746,236	4,034,766	4,399,144	4,838,948	4,848,691	5,240,898	392,207	8%
Financing Sources								
Interest Income	5,901	10,967	7,461	6,000	970	3,000	2,030	209%
Debt Proceeds	-	64,718	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	5,901	75,685	7,461	6,000	970	3,000	2,030	209%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	663	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	663	-	-	-	-	-	-	
TOTAL SOURCES	**3,752,800**	**4,110,451**	**4,406,605**	**4,844,948**	**4,849,661**	**5,243,898**	**394,237**	**8%**
Operating Uses								
Wages, Salaries, Stipends	286,032	323,751	325,884	353,169	351,995	397,651	45,656	13%
Employee Benefits	166,929	182,125	202,887	226,250	227,777	260,737	32,960	14%
Utilities & Telephone	11,026	10,577	15,751	13,494	14,452	13,658	(794)	-5%
Materials & Supplies	26,913	17,442	12,826	23,620	15,605	20,813	5,208	33%
Contracts & Services	40,522	100,200	48,958	50,028	45,415	43,869	(1,546)	-3%
Employee Support	2,685	5,484	4,934	13,421	5,745	9,240	3,495	61%
Grants/Contributions to Others	3,213,016	3,352,172	3,768,809	4,188,888	4,188,888	4,617,824	428,936	10%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	3,747,123	3,991,751	4,380,049	4,868,870	4,849,877	5,363,792	513,915	11%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	2,589	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	2,589	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	24,937	28,959	25,218	32,993	26,849	34,621	7,772	29%
Subtotal	24,937	28,959	25,218	32,993	26,849	34,621	7,772	29%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**3,772,060**	**4,023,299**	**4,405,267**	**4,901,863**	**4,876,726**	**5,398,413**	**521,687**	**11%**
NET	**(19,260)**	**87,152**	**1,338**	**(56,915)**	**(27,065)**	**(154,515)**	**(127,450)**	**471%**
FUND BALANCE	**379,755**	**466,907**	**468,245**	**411,330**	**441,180**	**286,665**	**(154,515)**	**-35%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: **110** **Housing Authority**
Dept: **111** **City Manager**

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In							-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	3,004	1,393	2,173	3,713	2,506	3,788	1,282	51%
Employee Benefits	1,749	997	1,445	2,201	1,624	2,296	672	41%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	4,753	2,390	3,618	5,914	4,130	6,084	1,954	47%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used							-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**4,753**	**2,390**	**3,618**	**5,914**	**4,130**	**6,084**	**1,954**	**47%**
NET	**(4,753)**	**(2,390)**	**(3,618)**	**(5,914)**	**(4,130)**	**(6,084)**	**(1,954)**	**47%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 110 Housing Authority
Dept: 114 Human Resources
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In							-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	2,999	2,715	4,651	1,936	71%
Employee Benefits	-	-	323	2,589	2,361	3,580	1,219	52%
Utilities & Telephone	-	-	17	130	38	96	58	153%
Materials & Supplies	-	-	151	155	64	148	84	131%
Contracts & Services	-	-	4,254	1,093	1,106	55	(1,051)	-95%
Employee Support	-	-	110	444	45	200	155	344%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	4,855	7,410	6,329	8,730	2,401	38%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used							-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**4,855**	**7,410**	**6,329**	**8,730**	**2,401**	**38%**
NET	**-**	**-**	**(4,855)**	**(7,410)**	**(6,329)**	**(8,730)**	**(2,401)**	**38%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: **110** **Housing Authority**
Dept: **120** **Finance**

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In							-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	6,760	4,275	5,509	5,878	8,155	6,153	(2,002)	-25%
Employee Benefits	4,644	2,653	2,839	4,083	3,948	4,159	211	5%
Utilities & Telephone	214	211	143	212	38	-	(38)	-100%
Materials & Supplies	142	147	263	315	43	315	272	633%
Contracts & Services	461	715	400	1,685	698	955	257	37%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	12,221	8,001	9,154	12,173	12,882	11,582	(1,300)	-10%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used							-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**12,221**	**8,001**	**9,154**	**12,173**	**12,882**	**11,582**	**(1,300)**	**-10%**
NET	**(12,221)**	**(8,001)**	**(9,154)**	**(12,173)**	**(12,882)**	**(11,582)**	**1,300**	**-10%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 110 Housing Authority
Dept: 130 City Attorney

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In							-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	421	513	1,670	1,751	405	1,763	1,358	335%
Employee Benefits	384	560	874	928	385	1,014	629	163%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	805	1,073	2,544	2,679	790	2,777	1,987	252%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used							-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**805**	**1,073**	**2,544**	**2,679**	**790**	**2,777**	**1,987**	**252%**
NET	**(805)**	**(1,073)**	**(2,544)**	**(2,679)**	**(790)**	**(2,777)**	**(1,987)**	**252%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 110 Housing Authority
Dept: 490 Housing Authority

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	36,635	24,032	39,825	33,614	43,434	34,344	(9,090)	-21%
Operating Grants/Contributions	3,709,601	4,010,734	4,359,319	4,805,334	4,805,257	5,206,554	401,297	8%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	3,746,236	4,034,766	4,399,144	4,838,948	4,848,691	5,240,898	392,207	8%
Financing Sources								
Interest Income	5,901	10,967	7,461	6,000	970	3,000	2,030	209%
Debt Proceeds	-	64,718	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	5,901	75,685	7,461	6,000	970	3,000	2,030	209%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	663	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	663	-	-	-	-	-	-	
TOTAL SOURCES	**3,752,800**	**4,110,451**	**4,406,605**	**4,844,948**	**4,849,661**	**5,243,898**	**394,237**	**8%**
Operating Uses								
Wages, Salaries, Stipends	275,847	317,570	316,532	338,828	338,214	381,296	43,082	13%
Employee Benefits	160,152	177,915	197,406	216,449	219,459	249,688	30,229	14%
Utilities & Telephone	10,812	10,366	15,591	13,152	14,376	13,562	(814)	-6%
Materials & Supplies	26,771	17,295	12,412	23,150	15,498	20,350	4,852	31%
Contracts & Services	40,061	99,485	44,304	47,250	43,611	42,859	(752)	-2%
Employee Support	2,685	5,484	4,824	12,977	5,700	9,040	3,340	59%
Grants/Contributions to Others	3,213,016	3,352,172	3,768,809	4,188,888	4,188,888	4,617,824	428,936	10%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	3,729,344	3,980,287	4,359,878	4,840,694	4,825,746	5,334,619	508,873	11%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	2,589	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	2,589	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	24,938	28,959	25,218	32,993	26,849	34,621	7,772	29%
Subtotal	24,938	28,959	25,218	32,993	26,849	34,621	7,772	29%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**3,754,282**	**4,011,835**	**4,385,096**	**4,873,687**	**4,852,595**	**5,369,240**	**516,645**	**11%**
NET	**(1,482)**	**98,616**	**21,509**	**(28,739)**	**(2,934)**	**(125,342)**	**(122,408)**	**4172%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 104 CDBG Program Income
Dept: 485 CDBG

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	1	19	5	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	1	19	5	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	1,800	25,693	1,700	2,000	1,200	2,000	800	67%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	1,800	25,693	1,700	2,000	1,200	2,000	800	67%
TOTAL SOURCES	**1,801**	**25,712**	**1,705**	**2,000**	**1,200**	**2,000**	**800**	**67%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	1,802	1,801	25,712	2,000	1,705	2,000	295	17%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	1,802	1,801	25,712	2,000	1,705	2,000	295	17%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**1,802**	**1,801**	**25,712**	**2,000**	**1,705**	**2,000**	**295**	**17%**
NET	**(1)**	**23,911**	**(24,007)**	**-**	**(505)**	**-**	**505**	**-100%**
FUND BALANCE	**1,801**	**25,712**	**1,705**	**1,705**	**1,200**	**1,200**	**-**	**0%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 107 CDBG Loan Fund
Dept: 485 CDBG

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	11	16	21	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	11	16	21	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**11**	**16**	**21**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	1,800	1,800	1,700	2,000	1,200	2,000	800	67%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	1,800	1,800	1,700	2,000	1,200	2,000	800	67%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**1,800**	**1,800**	**1,700**	**2,000**	**1,200**	**2,000**	**800**	**67%**
NET	**(1,789)**	**(1,784)**	**(1,679)**	**(2,000)**	**(1,200)**	**(2,000)**	**(800)**	**67%**
FUND BALANCE	**36,998**	**35,214**	**33,535**	**31,535**	**32,335**	**30,335**	**(2,000)**	**-6%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 153 2020 CDBG Fund (Closed)
Dept: 485 CDBG

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	408,743	807,495	179	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	408,743	807,495	179	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**408,743**	**807,495**	**179**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	4,101	1,502	-	-	-	-	-	
Employee Benefits	1,442	534	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	5,721	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	781,222	153,411	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	792,486	155,447	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**792,486**	**155,447**	**-**	**-**	**-**	**-**	**-**	
NET	**(383,743)**	**652,048**	**179**	**-**	**-**	**-**	**-**	
FUND BALANCE	**(652,227)**	**(179)**	**-**	**-**	**-**	**-**	**-**	

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 154 CDBG COVID Grant Fund
Dept: 485 CDBG

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	187,643	80,155	116,942	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	187,643	80,155	116,942	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	698	698	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	698	698	
TOTAL SOURCES	**187,643**	**80,155**	**116,942**	**-**	**-**	**698**	**698**	
Operating Uses								
Wages, Salaries, Stipends	3,180	516	-	-	-	-	-	
Employee Benefits	890	182	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	704	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	158,852	98,045	21,322	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	163,626	98,743	21,322	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**163,626**	**98,743**	**21,322**	**-**	**-**	**-**	**-**	
NET	**24,017**	**(18,588)**	**95,620**	**-**	**-**	**698**	**698**	
FUND BALANCE	**(77,730)**	**(96,318)**	**(698)**	**(698)**	**(698)**	**-**	**698**	**-100%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 155 CDBG 2022 Grant Fund
Dept: 485 CDBG

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	9,746	153,867	86,386	86,386	-	(86,386)	-100%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	9,746	153,867	86,386	86,386	-	(86,386)	-100%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**9,746**	**153,867**	**86,386**	**86,386**	**-**	**(86,386)**	**-100%**
Operating Uses								
Wages, Salaries, Stipends	-	4,368	4,049	3,199	3,199	-	(3,199)	-100%
Employee Benefits	-	1,533	1,532	721	720	-	(720)	-100%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	93,812	115,124	25,662	25,662	-	(25,662)	-100%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	99,713	120,705	29,582	29,581	-	(29,581)	-100%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**99,713**	**120,705**	**29,582**	**29,581**	**-**	**(29,581)**	**-100%**
NET	**-**	**(89,967)**	**33,162**	**56,804**	**56,805**	**-**	**(56,805)**	**-100%**
FUND BALANCE	**-**	**(89,967)**	**(56,805)**	**(1)**	**-**	**-**	**-**	

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 158 CDBG 2023 Grant Fund
Dept: 485 CDBG

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	1,065,485	1,217	1,064,268	1,063,051	87350%
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	1,065,485	1,217	1,064,268	1,063,051	87350%
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**1,065,485**	**1,217**	**1,064,268**	**1,063,051**	**87350%**
Operating Uses								
Wages, Salaries, Stipends	-	-	700	89,534	-	89,534	89,534	
Employee Benefits	-	-	313	33,139	-	33,139	33,139	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	204	3,796	-	3,796	3,796	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	1,217	126,469	-	126,469	126,469	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	937,799	-	937,799	937,799	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	937,799	-	937,799	937,799	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**1,217**	**1,064,268**	**-**	**1,064,268**	**1,064,268**	
NET	**-**	**-**	**(1,217)**	**1,217**	**1,217**	**-**	**(1,217)**	**-100%**
FUND BALANCE	**-**	**-**	**(1,217)**	**-**	**-**	**-**	**-**	

City of Crescent City FY 2026-27 Budget

Fund: 159 CDBG 2023-A Grant Fund
Dept: 485 CDBG

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	3,296,180	31,508	3,264,672	3,233,164	10261%
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	3,296,180	31,508	3,264,672	3,233,164	10261%
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**3,296,180**	**31,508**	**3,264,672**	**3,233,164**	**10261%**
Operating Uses								
Wages, Salaries, Stipends	-	-	473	96,296	992	95,304	94,312	9507%
Employee Benefits	-	-	125	31,402	153	31,249	31,096	20324%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	2,704	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	3,302	127,698	1,145	126,553	125,408	10953%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	61	3,165,119	27,000	3,138,119	3,111,119	11523%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	61	3,165,119	27,000	3,138,119	3,111,119	11523%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**3,363**	**3,292,817**	**28,145**	**3,264,672**	**3,236,527**	**11499%**
NET	**-**	**-**	**(3,363)**	**3,363**	**3,363**	**-**	**(3,363)**	**-100%**
FUND BALANCE	**-**	**-**	**(3,363)**	**-**	**-**	**-**	**-**	

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 161 CDBG 2024 Grant Fund
Dept: 485 CDBG

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	1,800,000	1,085,209	714,791	(370,418)	-34%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	1,800,000	1,085,209	714,791	(370,418)	-34%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**1,800,000**	**1,085,209**	**714,791**	**(370,418)**	**-34%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	74,000	18,629	55,371	36,742	197%
Employee Benefits	-	-	-	32,000	6,241	25,759	19,518	313%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	328,000	79,997	248,003	168,006	210%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	1,366,000	980,342	385,658	(594,684)	-61%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	1,800,000	1,085,209	714,791	(370,418)	-34%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**-**	**1,800,000**	**1,085,209**	**714,791**	**(370,418)**	**-34%**
NET	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
FUND BALANCE	**-**	**-**	**-**	**-**	**-**	**-**	**-**	

City of Crescent City FY 2026-27 Budget

Fund: 106 Rehab & Sidewalk Loan Fund
Dept: n/a Rehab & Sidewalk Loan Fund - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	571	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	571	-	-	-	-	
Financing Sources								
Interest Income	395	1,041	1,191	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	395	1,041	1,191	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**395**	**1,041**	**1,762**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	23,893	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	23,893	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**23,893**	**-**	**-**	**-**	**-**	**-**	
NET	**395**	**(22,852)**	**1,762**	**-**	**-**	**-**	**-**	
FUND BALANCE	**90,070**	**67,218**	**68,980**	**68,980**	**68,980**	**68,980**	**-**	**0%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 115 Gas Tax Fund (HUTA)
Dept: 364 Streets

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	171,938	184,854	188,929	192,675	192,675	195,242	2,567	1%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	171,938	184,854	188,929	192,675	192,675	195,242	2,567	1%
Financing Sources								
Interest Income	747	1,581	1,630	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	747	1,581	1,630	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**172,685**	**186,435**	**190,559**	**192,675**	**192,675**	**195,242**	**2,567**	**1%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	11,470	12,034	15,239	17,181	17,181	17,300	119	1%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	11,470	12,034	15,239	17,181	17,181	17,300	119	1%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	161,234	174,401	175,320	175,494	175,494	177,942	2,448	1%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	161,234	174,401	175,320	175,494	175,494	177,942	2,448	1%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**172,704**	**186,435**	**190,559**	**192,675**	**192,675**	**195,242**	**2,567**	**1%**
NET	**(19)**	**-**	**-**	**-**	**-**	**-**	**-**	
FUND BALANCE	**28,901**	**28,901**	**28,901**	**28,901**	**28,901**	**28,901**	**-**	**0%**

City of Crescent City FY 2026-27 Budget

Fund: **116** **Successor Housing**
Dept: **n/a** **Successor Housing - All Cost Centers Combined**

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	6,665	18,384	5,190	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	6,665	18,384	5,190	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	70,248	-	-	-	-	-	
Subtotal	-	70,248	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**6,665**	**88,632**	**5,190**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
NET	**6,665**	**88,632**	**5,190**	**-**	**-**	**-**	**-**	
FUND BALANCE	**555,265**	**643,897**	**649,087**	**649,087**	**649,087**	**649,087**	**-**	**0%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 117 Gas Tax (Road Maintenance & Rehabilitation Account)
Dept: 364 Streets

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	150,599	174,139	183,710	178,167	178,167	189,413	11,246	6%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	150,599	174,139	183,710	178,167	178,167	189,413	11,246	6%
Financing Sources								
Interest Income	3,565	15,140	17,686	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	3,565	15,140	17,686	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**154,164**	**189,279**	**201,396**	**178,167**	**178,167**	**189,413**	**11,246**	**6%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	66,572	18,951	205,371	208,675	133,675	190,000	56,325	42%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	18,970	21,789	28,755	30,288	30,288	32,200	1,912	6%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	85,542	40,740	234,126	238,963	163,963	222,200	58,237	36%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	79,829	105,000	-	205,000	205,000	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	79,829	105,000	-	205,000	205,000	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**85,542**	**40,740**	**313,955**	**343,963**	**163,963**	**427,200**	**263,237**	**161%**
NET	**68,622**	**148,539**	**(112,559)**	**(165,796)**	**14,204**	**(237,787)**	**(251,991)**	**-1774%**
FUND BALANCE	**272,758**	**421,297**	**308,738**	**142,942**	**322,942**	**85,155**	**(237,787)**	**-74%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 120 American Rescue Plan Act (ARPA) Fund
Dept: n/a ARPA Fund - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	153,304	1,359,205	43,656	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	153,304	1,359,205	43,656	-	-	-	-	
Financing Sources								
Interest Income	20,924	46,604	3,750	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	20,924	46,604	3,750	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**174,228**	**1,405,809**	**47,406**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	63,458	-	64,201	64,201	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	63,458	-	64,201	64,201	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	153,304	1,359,205	43,966	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	153,304	1,359,205	43,966	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**153,304**	**1,359,205**	**43,966**	**63,458**	**-**	**64,201**	**64,201**	
NET	**20,924**	**46,604**	**3,440**	**(63,458)**	**-**	**(64,201)**	**(64,201)**	
FUND BALANCE	**14,157**	**60,761**	**64,201**	**743**	**64,201**	**-**	**(64,201)**	**-100%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: **121** **Volunteer Firefighter Support Fund**
Dept: **230** **Fire**

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	131	674	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	131	674	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	7,884	9,891	10,448	10,448	12,600	2,152	21%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	7,884	9,891	10,448	10,448	12,600	2,152	21%
TOTAL SOURCES	**-**	**8,015**	**10,565**	**10,448**	**10,448**	**12,600**	**2,152**	**21%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	1,325	6,172	11,088	11,088	23,043	11,955	108%
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	1,325	6,172	11,088	11,088	23,043	11,955	108%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**1,325**	**6,172**	**11,088**	**11,088**	**23,043**	**11,955**	**108%**
NET	**-**	**6,690**	**4,393**	**(640)**	**(640)**	**(10,443)**	**(9,803)**	**1532%**
FUND BALANCE	**-**	**6,690**	**11,083**	**10,443**	**10,443**	**-**	**(10,443)**	**-100%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 156 Clean California Grant Fund
Dept: 364 Streets

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-		-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	725	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	725	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	133,595	2,854,405	284,685	2,569,720	2,285,035	803%
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	133,595	2,854,405	284,685	2,569,720	2,285,035	803%
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**134,320**	**2,854,405**	**284,685**	**2,569,720**	**2,285,035**	**803%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	67,500	-	67,500	67,500	
Employee Benefits	-	-	-	22,500	-	22,500	22,500	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	90,000	-	90,000	90,000	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	24,950	256,449	2,616,602	136,881	2,480,445	2,343,564	1712%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	24,950	256,449	2,616,602	136,881	2,480,445	2,343,564	1712%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**24,950**	**256,449**	**2,706,602**	**136,881**	**2,570,445**	**2,433,564**	**1778%**
NET	**-**	**(24,950)**	**(122,129)**	**147,803**	**147,804**	**(725)**	**(148,529)**	**-100%**
FUND BALANCE	**-**	**(24,950)**	**(147,079)**	**724**	**725**	**-**	**(725)**	**-100%**

City of Crescent City FY 2026-27 Budget

Fund: 157 Competitive Permanent Local Housing Allocation (CPLHA) Fund
Dept: 487 Affordable Housing

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	4,789,157	210,844	4,544	181,354	176,810	3891%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	4,789,157	210,844	4,544	181,354	176,810	3891%
Financing Sources								
Interest Income	-	-	24,945	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	24,945	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**4,814,102**	**210,844**	**4,544**	**181,354**	**176,810**	**3891%**
Operating Uses								
Wages, Salaries, Stipends	-	838	4,044	33,091	3,456	29,635	26,179	757%
Employee Benefits	-	325	633	11,332	1,088	10,244	9,156	842%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	10	90	-	90	90	
Contracts & Services	-	33,306	-	166,331	-	166,331	166,331	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	4,750,000	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	34,469	4,754,687	210,844	4,544	206,300	201,756	4440%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**34,469**	**4,754,687**	**210,844**	**4,544**	**206,300**	**201,756**	**4440%**
NET	**-**	**(34,469)**	**59,415**	**-**	**-**	**(24,946)**	**(24,946)**	
FUND BALANCE	**-**	**(34,469)**	**24,946**	**24,946**	**24,946**	**-**	**(24,946)**	**-100%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 160 Permanent Local Housing Allocation (PLHA) and ProHousing Incentive Program (PIP) Fund
Dept: 490 Affordable Housing

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	813	993,386	342,836	650,549	307,713	90%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	813	993,386	342,836	650,549	307,713	90%
Financing Sources								
Interest Income	-	-	3,998	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	3,998	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**4,811**	**993,386**	**342,836**	**650,549**	**307,713**	**90%**
Operating Uses								
Wages, Salaries, Stipends	-	-	788	21,733	11,269	10,464	(805)	-7%
Employee Benefits	-	-	201	9,489	4,403	5,086	683	16%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	15,000	-	15,000	15,000	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	946,988	326,988	620,000	293,012	90%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	989	993,210	342,660	650,550	307,890	90%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**989**	**993,210**	**342,660**	**650,550**	**307,890**	**90%**
NET	**-**	**-**	**3,822**	**176**	**176**	**(1)**	**(177)**	**-101%**
FUND BALANCE	**-**	**-**	**3,822**	**3,998**	**3,998**	**3,997**	**(1)**	**0%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 162 HOME Fund
Dept: 490 Affordable Housing

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	4,450,000	4,311,214	138,786	(4,172,428)	-97%
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	4,450,000	4,311,214	138,786	(4,172,428)	-97%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**4,450,000**	**4,311,214**	**138,786**	**(4,172,428)**	**-97%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	30,000	8,485	21,515	13,030	154%
Employee Benefits	-	-	-	20,000	2,729	17,271	14,542	533%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	100,000	-	100,000	100,000	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	4,300,000	4,300,000	-	(4,300,000)	-100%
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	4,450,000	4,311,214	138,786	(4,172,428)	-97%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**-**	**4,450,000**	**4,311,214**	**138,786**	**(4,172,428)**	**-97%**
NET	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
FUND BALANCE	**-**	**-**	**-**	**-**	**-**	**-**	**-**	

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 163 Ocean Protection Council Grant Fund
Dept: 313 Planning

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	320,911	-	320,911	320,911	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	320,911	-	320,911	320,911	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**320,911**	**-**	**320,911**	**320,911**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	40,000	-	40,000	40,000	
Employee Benefits	-	-	-	16,200	-	16,200	16,200	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	3,400	-	3,400	3,400	
Contracts & Services	-	-	-	261,311	-	261,311	261,311	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	320,911	-	320,911	320,911	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**-**	**320,911**	**-**	**320,911**	**320,911**	
NET	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
FUND BALANCE	**-**	**-**	**-**	**-**	**-**	**-**	**-**	

Debt Service Funds

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: **301** **Police Facility Debt Service Fund**
Dept: **240** **Police**

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	132,000	132,000	-	(132,000)	-100%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	132,000	132,000	-	(132,000)	-100%
TOTAL SOURCES	**-**	**-**	**-**	**132,000**	**132,000**	**-**	**(132,000)**	**-100%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal							-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
NET	**-**	**-**	**-**	**132,000**	**132,000**	**-**	**(132,000)**	**-100%**
FUND BALANCE	**-**	**-**	**-**	**132,000**	**132,000**	**132,000**	**-**	**0%**

Enterprise Funds

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 412 RV Park Fund
Dept: n/a RV Park Fund - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	11,773	11,021	9,502	14,500	17,519	15,500	(2,019)	-12%
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	509,710	520,784	625,498	603,286	660,000	660,000	-	0%
Subtotal	521,483	531,805	635,000	617,786	677,519	675,500	(2,019)	0%
Financing Sources								
Interest Income	9,137	27,527	33,203	10,000	20,955	10,000	(10,955)	-52%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	9,137	27,527	33,203	10,000	20,955	10,000	(10,955)	-52%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	835,000	15,458	819,542	804,084	5202%
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	835,000	15,458	819,542	804,084	5202%
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**530,620**	**559,332**	**668,203**	**1,462,786**	**713,932**	**1,505,042**	**791,110**	**111%**
Operating Uses								
Wages, Salaries, Stipends	112,243	121,059	117,404	155,499	149,232	159,679	10,447	7%
Employee Benefits	63,682	69,921	73,488	95,140	92,725	106,374	13,649	15%
Utilities & Telephone	116,511	117,043	111,428	137,842	136,848	159,588	22,740	17%
Materials & Supplies	25,439	15,182	38,667	38,130	25,997	63,501	37,504	144%
Contracts & Services	82,085	90,063	114,271	147,789	130,537	143,431	12,894	10%
Employee Support	55	802	2,058	4,474	222	1,077	855	385%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	175	388	1,456	1,200	1,806	1,850	44	2%
Subtotal	400,190	414,458	458,772	580,074	537,367	635,500	98,133	18%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	5,412	8,544	1,026,457	27,511	998,945	971,434	3531%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	5,412	8,544	1,026,457	27,511	998,945	971,434	3531%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	11,065	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	64,999	80,067	72,311	87,862	79,223	91,742	12,519	16%
Subtotal	64,999	80,067	83,376	87,862	79,223	91,742	12,519	16%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**465,189**	**499,937**	**550,692**	**1,694,393**	**644,101**	**1,726,187**	**1,082,086**	**168%**
EST EFFECT ON WORKING CAP	**65,431**	**59,395**	**117,511**	**(231,607)**	**69,831**	**(221,145)**	**(290,976)**	**-417%**
WORKING CAPITAL	**503,933**	**563,013**	**680,123**	**448,516**	**749,954**	**528,809**	**(221,145)**	**-29%**
FUND BALANCE	**1,252,568**	**1,255,664**	**1,309,165**	**2,042,015**	**1,344,507**	**2,060,307**	**715,800**	**53%**

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 412 RV Park Fund
Dept: 100 RV Park

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	11,773	11,021	9,502	14,500	17,519	15,500	(2,019)	-12%
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	509,710	520,784	625,498	603,286	660,000	660,000	-	0%
Subtotal	521,483	531,805	635,000	617,786	677,519	675,500	(2,019)	0%
Financing Sources								
Interest Income	9,137	27,527	33,203	10,000	20,955	10,000	(10,955)	-52%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	9,137	27,527	33,203	10,000	20,955	10,000	(10,955)	-52%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	835,000	15,458	819,542	804,084	5202%
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	835,000	15,458	819,542	804,084	5202%
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**530,620**	**559,332**	**668,203**	**1,462,786**	**713,932**	**1,505,042**	**791,110**	**111%**
Operating Uses								
Wages, Salaries, Stipends	87,429	94,554	80,167	108,100	103,980	112,607	8,627	8%
Employee Benefits	50,383	54,889	50,182	65,279	64,600	73,312	8,712	13%
Utilities & Telephone	116,201	116,685	110,938	137,054	136,287	158,912	22,625	17%
Materials & Supplies	25,273	14,990	38,161	37,575	25,591	62,850	37,259	146%
Contracts & Services	65,285	68,713	86,257	118,705	105,560	111,575	6,015	6%
Employee Support	55	802	1,976	3,805	55	615	560	1018%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	175	388	1,456	1,200	1,806	1,850	44	2%
Subtotal	344,801	351,021	369,137	471,718	437,879	521,721	83,842	19%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	5,412	8,544	1,026,457	27,511	998,945	971,434	3531%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	5,412	8,544	1,026,457	27,511	998,945	971,434	3531%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	11,065	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	64,999	80,067	72,311	87,862	79,223	91,742	12,519	16%
Subtotal	64,999	80,067	83,376	87,862	79,223	91,742	12,519	16%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**409,800**	**436,500**	**461,057**	**1,586,037**	**544,613**	**1,612,408**	**1,067,795**	**196%**
NET	**120,820**	**122,832**	**207,146**	**(123,251)**	**169,319**	**(107,366)**	**(276,685)**	**-163%**

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 412 RV Park Fund
Dept: 110 City Council
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	1,430	1,442	1,442	1,540	98	7%
Employee Benefits	-	-	2,509	1,551	1,557	2,904	1,347	87%
Utilities & Telephone	-	-	60	214	119	214	95	80%
Materials & Supplies	-	-	24	74	6	74	68	1133%
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	13	445	126	305	179	142%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	4,036	3,726	3,250	5,037	1,787	55%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**4,036**	**3,726**	**3,250**	**5,037**	**1,787**	**55%**
NET	**-**	**-**	**(4,036)**	**(3,726)**	**(3,250)**	**(5,037)**	**(1,787)**	**55%**

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 412 RV Park Fund
Dept: 111 City Manager

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	7,030	7,607	7,865	9,286	9,122	9,470	348	4%
Employee Benefits	3,558	4,046	4,512	5,279	5,300	5,747	447	8%
Utilities & Telephone	-	-	-	-	35	-	(35)	-100%
Materials & Supplies	-	-	-	-	24	-	(24)	-100%
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	10,588	11,653	12,377	14,565	14,481	15,217	736	5%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**10,588**	**11,653**	**12,377**	**14,565**	**14,481**	**15,217**	**736**	**5%**
NET	**(10,588)**	**(11,653)**	**(12,377)**	**(14,565)**	**(14,481)**	**(15,217)**	**(736)**	**5%**

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 412 RV Park Fund
Dept: 113 City Clerk
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	3,428	3,466	3,475	3,625	150	4%
Employee Benefits	-	-	2,191	2,397	2,407	2,637	230	10%
Utilities & Telephone	-	-	40	93	62	94	32	52%
Materials & Supplies	-	-	86	71	104	153	49	47%
Contracts & Services	-	-	839	624	785	1,097	312	40%
Employee Support	-	-	14	11	19	71	52	274%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	6,598	6,662	6,852	7,677	825	12%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**6,598**	**6,662**	**6,852**	**7,677**	**825**	**12%**
NET	**-**	**-**	**(6,598)**	**(6,662)**	**(6,852)**	**(7,677)**	**(825)**	**12%**

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 412 RV Park Fund
Dept: 114 Human Resources
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	1,442	1,466	2,024	558	38%
Employee Benefits	-	-	129	1,199	1,207	1,560	353	29%
Utilities & Telephone	-	-	8	63	37	41	4	11%
Materials & Supplies	-	-	75	75	44	64	20	45%
Contracts & Services	-	-	2,127	525	208	24	(184)	-88%
Employee Support	-	-	55	213	22	86	64	291%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	2,394	3,517	2,984	3,799	815	27%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**2,394**	**3,517**	**2,984**	**3,799**	**815**	**27%**
NET	**-**	**-**	**(2,394)**	**(3,517)**	**(2,984)**	**(3,799)**	**(815)**	**27%**

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 412 RV Park Fund
Dept: 120 Finance

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	11,363	12,314	17,510	23,064	21,358	21,598	240	1%
Employee Benefits	6,646	7,639	10,163	14,980	13,199	15,139	1,940	15%
Utilities & Telephone	310	358	382	388	273	297	24	9%
Materials & Supplies	166	192	321	315	205	340	135	66%
Contracts & Services	16,800	21,350	25,048	27,935	23,984	30,735	6,751	28%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	35,285	41,853	53,424	66,682	59,019	68,109	9,090	15%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**35,285**	**41,853**	**53,424**	**66,682**	**59,019**	**68,109**	**9,090**	**15%**
NET	**(35,285)**	**(41,853)**	**(53,424)**	**(66,682)**	**(59,019)**	**(68,109)**	**(9,090)**	**15%**

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 412 RV Park Fund
Dept: 130 City Attorney

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	6,421	6,584	7,004	8,699	8,389	8,815	426	5%
Employee Benefits	3,095	3,347	3,802	4,455	4,455	5,075	620	14%
Utilities & Telephone	-	-	-	30	35	30	(5)	-14%
Materials & Supplies	-	-	-	20	23	20	(3)	-13%
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	9,516	9,931	10,806	13,204	12,902	13,940	1,038	8%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**9,516**	**9,931**	**10,806**	**13,204**	**12,902**	**13,940**	**1,038**	**8%**
NET	**(9,516)**	**(9,931)**	**(10,806)**	**(13,204)**	**(12,902)**	**(13,940)**	**(1,038)**	**8%**

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 413 + 913 Sewer Fund and Sewer CIP Fund
Dept: n/a Sewer - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	25,894	33,624	34,798	32,300	32,121	32,300	179	1%
Operating Grants/Contributions	358,442	152,565	273,935	384,860	384,860	-	(384,860)	-100%
Charges for Services	4,825,321	4,884,392	4,743,937	4,998,188	4,817,611	6,319,031	1,501,420	31%
Subtotal	5,209,657	5,070,581	5,052,670	5,415,348	5,234,592	6,351,331	1,116,739	21%
Financing Sources								
Interest Income	124,116	290,290	338,266	163,900	164,880	163,900	(980)	-1%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	124,116	290,290	338,266	163,900	164,880	163,900	(980)	-1%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	249,796	1,483,378	322,738	300,000	307,445	1,544,037	1,236,592	402%
Gain on Sale of Assets	-	-	(1,990)	-	-	-	-	
Subtotal	249,796	1,483,378	320,748	300,000	307,445	1,544,037	1,236,592	402%
Internal Sources								
Interfund Transfers In	770,221	79,486	12,938	269,074	269,074	599,771	330,697	123%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	770,221	79,486	12,938	269,074	269,074	599,771	330,697	123%
TOTAL SOURCES	**6,353,790**	**6,923,735**	**5,724,622**	**6,148,322**	**5,975,991**	**8,659,039**	**2,683,048**	**45%**
Operating Uses								
Wages, Salaries, Stipends	486,426	603,563	650,018	784,625	699,902	789,534	89,632	13%
Employee Benefits	(386,574)	475,884	660,473	650,553	587,789	707,902	120,113	20%
Utilities & Telephone	47,404	50,093	61,248	60,022	63,041	64,303	1,262	2%
Materials & Supplies	119,960	211,546	385,756	452,464	389,931	415,010	25,079	6%
Contracts & Services	2,488,920	2,093,775	2,215,039	2,933,719	2,536,969	2,134,593	(402,376)	-16%
Employee Support	10,155	10,931	14,112	35,821	11,919	20,374	8,455	71%
Grants/Contributions to Others	-	106,415	-	-	-	17,360	17,360	
Other Operating Uses	59,368	67,627	61,404	72,797	68,620	68,310	(310)	0%
Subtotal	2,825,659	3,619,834	4,048,050	4,990,001	4,358,171	4,217,386	(140,785)	-3%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	640,827	107,497	109,945	870,000	150,438	2,468,757	2,318,319	1541%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	640,827	107,497	109,945	870,000	150,438	2,468,757	2,318,319	1541%
Financing Uses								
Debt Principal Repaid	1,697,663	1,697,663	1,697,663	1,697,663	1,697,663	1,697,663	-	0%
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	1,697,663	1,697,663	1,697,663	1,697,663	1,697,663	1,697,663	-	0%
Internal Uses								
Interfund Transfers Out	805,691	101,682	32,109	285,074	279,345	629,771	350,426	125%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	490,124	577,507	537,129	637,099	586,831	670,196	83,365	14%
Subtotal	1,295,815	679,189	569,238	922,173	866,176	1,299,967	433,791	50%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**6,459,964**	**6,104,183**	**6,424,896**	**8,479,837**	**7,072,448**	**9,683,773**	**2,611,325**	**37%**
EST EFFECT ON WORKING CAP	**(106,174)**	**819,552**	**(700,274)**	**(2,331,515)**	**(1,096,457)**	**(1,024,734)**	**71,723**	**-7%**
WORKING CAPITAL	**4,465,141**	**4,967,917**	**4,339,308**	**2,007,793**	**3,592,851**	**2,568,117**	**(1,024,734)**	**-29%**
FUND BALANCE	**7,114,901**	**8,118,455**	**7,736,229**	**6,372,377**	**6,887,873**	**8,429,559**	**1,541,686**	**22%**

Interfund Transfers between the Sewer Fund and Sewer CIP Fund are included here for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 000 Non-Departmental

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	25,894	33,624	34,798	32,300	31,964	32,300	336	1%
Operating Grants/Contributions	358,442	152,565	273,935	384,860	384,860	-	(384,860)	-100%
Charges for Services	4,580,643	4,570,412	4,508,421	4,578,264	4,593,087	5,956,532	1,363,445	30%
Subtotal	4,964,979	4,756,601	4,817,154	4,995,424	5,009,911	5,988,832	978,921	20%
Financing Sources								
Interest Income	103,021	228,606	279,493	113,900	114,880	113,900	(980)	-1%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	103,021	228,606	279,493	113,900	114,880	113,900	(980)	-1%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	249,796	1,483,378	322,738	300,000	307,445	387,280	79,835	26%
Gain on Sale of Assets	-	-	(1,990)	-	-	-	-	
Subtotal	249,796	1,483,378	320,748	300,000	307,445	387,280	79,835	26%
Internal Sources								
Interfund Transfers In	-	-	1,947	194,074	194,074	6,000	(188,074)	-97%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	1,947	194,074	194,074	6,000	(188,074)	-97%
TOTAL SOURCES	**5,317,796**	**6,468,585**	**5,419,342**	**5,603,398**	**5,626,310**	**6,496,012**	**869,702**	**15%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	(810,053)	9,581	115,592	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	106,415	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	(810,053)	115,996	115,592	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	805,691	101,682	32,109	91,000	85,271	629,771	544,500	639%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	805,691	101,682	32,109	91,000	85,271	629,771	544,500	639%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**(4,362)**	**217,678**	**147,701**	**91,000**	**85,271**	**629,771**	**544,500**	**639%**
NET	**5,322,158**	**6,250,907**	**5,271,641**	**5,512,398**	**5,541,039**	**5,866,241**	**325,202**	**6%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 110 City Council
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	12,308	11,534	11,476	12,316	840	7%
Employee Benefits	-	-	22,703	12,957	13,400	23,909	10,509	78%
Utilities & Telephone	-	-	479	1,710	979	1,710	731	75%
Materials & Supplies	-	-	190	592	57	592	535	939%
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	102	3,560	1,134	2,443	1,309	115%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	35,782	30,353	27,046	40,970	13,924	51%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	14,979	10,080	9,497	14,099	4,602	48%
Subtotal	-	-	14,979	10,080	9,497	14,099	4,602	48%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**50,761**	**40,433**	**36,543**	**55,069**	**18,526**	**51%**
NET	**-**	**-**	**(50,761)**	**(40,433)**	**(36,543)**	**(55,069)**	**(18,526)**	**51%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 111 City Manager

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	39,490	44,832	48,848	55,653	52,870	56,822	3,952	7%
Employee Benefits	32,712	35,554	39,026	43,288	41,017	47,726	6,709	16%
Utilities & Telephone	695	651	869	820	733	825	92	13%
Materials & Supplies	758	199	196	1,674	1,645	408	(1,237)	-75%
Contracts & Services	-	540	-	1,000	-	1,000	1,000	
Employee Support	1,982	2,662	2,032	3,318	2,641	2,150	(491)	-19%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	75,637	84,438	90,971	105,753	98,906	108,931	10,025	10%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	28,479	37,560	32,503	37,069	33,342	40,690	7,348	22%
Subtotal	28,479	37,560	32,503	37,069	33,342	40,690	7,348	22%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**104,116**	**121,998**	**123,474**	**142,822**	**132,248**	**149,621**	**17,373**	**13%**
NET	**(104,116)**	**(121,998)**	**(123,474)**	**(142,822)**	**(132,248)**	**(149,621)**	**(17,373)**	**13%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 113 City Clerk
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	28,354	27,726	27,602	28,995	1,393	5%
Employee Benefits	-	-	23,871	25,340	24,412	28,013	3,601	15%
Utilities & Telephone	-	-	340	746	505	755	250	50%
Materials & Supplies	-	-	696	566	864	1,225	361	42%
Contracts & Services	-	-	6,394	4,989	4,688	8,774	4,086	87%
Employee Support	-	-	109	88	168	568	400	238%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	59,764	59,455	58,239	68,330	10,091	17%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	18,266	20,451	18,453	22,188	3,735	20%
Subtotal	-	-	18,266	20,451	18,453	22,188	3,735	20%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**78,030**	**79,906**	**76,692**	**90,518**	**13,826**	**18%**
NET	**-**	**-**	**(78,030)**	**(79,906)**	**(76,692)**	**(90,518)**	**(13,826)**	**18%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 114 Human Resources
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	6,459	5,514	9,340	3,826	69%
Employee Benefits	-	-	1,442	7,151	6,397	9,434	3,037	47%
Utilities & Telephone	-	-	36	280	173	192	19	11%
Materials & Supplies	-	-	322	334	202	296	94	47%
Contracts & Services	-	-	9,104	2,354	1,003	110	(893)	-89%
Employee Support	-	-	236	955	109	401	292	268%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	11,140	17,533	13,398	19,773	6,375	48%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	2,149	5,728	5,469	7,307	1,838	34%
Subtotal	-	-	2,149	5,728	5,469	7,307	1,838	34%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**13,289**	**23,261**	**18,867**	**27,080**	**8,213**	**44%**
NET	**-**	**-**	**(13,289)**	**(23,261)**	**(18,867)**	**(27,080)**	**(8,213)**	**44%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 120 Finance

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	97,877	117,688	122,187	155,673	143,357	145,576	2,219	2%
Employee Benefits	90,251	95,626	92,636	127,537	116,339	130,166	13,827	12%
Utilities & Telephone	4,853	4,777	5,182	4,761	4,143	4,406	263	6%
Materials & Supplies	17,652	20,709	20,188	27,125	23,803	24,476	673	3%
Contracts & Services	49,251	51,314	55,585	65,936	55,240	66,378	11,138	20%
Employee Support	1,032	3,104	5,333	4,552	1,990	3,218	1,228	62%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	758	892	701	1,000	909	1,000	91	10%
Subtotal	261,674	294,110	301,812	386,584	345,781	375,220	29,439	9%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	86,011	109,011	79,309	109,286	98,712	107,320	8,608	9%
Subtotal	86,011	109,011	79,309	109,286	98,712	107,320	8,608	9%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**347,685**	**403,121**	**381,121**	**495,870**	**444,493**	**482,540**	**38,047**	**9%**
NET	**(347,685)**	**(403,121)**	**(381,121)**	**(495,870)**	**(444,493)**	**(482,540)**	**(38,047)**	**9%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 130 City Attorney

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	21,039	22,637	25,378	30,493	30,493	30,854	361	1%
Employee Benefits	16,780	17,342	19,218	21,331	19,577	24,952	5,375	27%
Utilities & Telephone	389	360	405	455	357	450	93	26%
Materials & Supplies	143	232	490	685	678	285	(393)	-58%
Contracts & Services	25,988	-	7,256	6,000	6,000	1,000	(5,000)	-83%
Employee Support	1,144	946	1,176	2,144	1,498	1,860	362	24%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	65,483	41,517	53,923	61,108	58,603	59,401	798	1%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	14,679	17,952	15,469	19,258	16,934	21,720	4,786	28%
Subtotal	14,679	17,952	15,469	19,258	16,934	21,720	4,786	28%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**80,162**	**59,469**	**69,392**	**80,366**	**75,537**	**81,121**	**5,584**	**7%**
NET	**(80,162)**	**(59,469)**	**(69,392)**	**(80,366)**	**(75,537)**	**(81,121)**	**(5,584)**	**7%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 112 / 140 Economic Development & Grants
* This was dept 112 from FY 21-22 through FY 25-26; beginning FY 26-27 it is dept 140.

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	28,221	27,088	10,991	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	28,221	27,088	10,991	-	-	-	-	
TOTAL SOURCES	**28,221**	**27,088**	**10,991**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	20,296	20,112	22,951	27,868	25,726	28,206	2,480	10%
Employee Benefits	15,504	14,533	16,219	21,207	19,359	22,632	3,273	17%
Utilities & Telephone	141	122	188	135	346	135	(211)	-61%
Materials & Supplies	-	-	313	185	-	138	138	
Contracts & Services	81	-	-	425	59	270	211	358%
Employee Support	500	716	-	875	251	375	124	49%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	36,522	35,483	39,671	50,695	45,741	51,756	6,015	13%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	14,109	15,799	14,658	18,838	16,955	19,787	2,832	17%
Subtotal	14,109	15,799	14,658	18,838	16,955	19,787	2,832	17%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**50,631**	**51,282**	**54,329**	**69,533**	**62,696**	**71,543**	**8,847**	**14%**
NET	**(22,410)**	**(24,194)**	**(43,338)**	**(69,533)**	**(62,696)**	**(71,543)**	**(8,847)**	**14%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 351 Lab

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	105,433	102,581	93,975	134,400	89,136	102,400	13,264	15%
Subtotal	105,433	102,581	93,975	134,400	89,136	102,400	13,264	15%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**105,433**	**102,581**	**93,975**	**134,400**	**89,136**	**102,400**	**13,264**	**15%**
Operating Uses								
Wages, Salaries, Stipends	122,370	132,540	135,401	145,939	137,023	155,132	18,109	13%
Employee Benefits	94,319	102,568	116,563	125,750	119,611	141,173	21,562	18%
Utilities & Telephone	17,009	20,830	26,186	22,285	24,986	25,025	39	0%
Materials & Supplies	58,275	76,536	74,236	76,703	68,349	71,440	3,091	5%
Contracts & Services	9,168	78,698	39,830	29,421	26,243	29,158	2,915	11%
Employee Support	3,896	1,322	3,802	3,779	1,001	4,009	3,008	300%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	12,444	18,018	11,546	18,083	17,783	12,075	(5,708)	-32%
Subtotal	317,481	430,512	407,564	421,960	394,996	438,012	43,016	11%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	95,993	106,784	91,885	103,559	92,745	115,323	22,578	24%
Subtotal	95,993	106,784	91,885	103,559	92,745	115,323	22,578	24%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**413,474**	**537,296**	**499,449**	**525,519**	**487,741**	**553,335**	**65,594**	**13%**
NET	**(308,041)**	**(434,715)**	**(405,474)**	**(391,119)**	**(398,605)**	**(450,935)**	**(52,330)**	**13%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 352 WWTP Operations

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	46,341	54,131	49,233	50,885	48,804	46,742	(2,062)	-4%
Employee Benefits	47,816	47,419	39,902	44,155	38,408	44,411	6,003	16%
Utilities & Telephone	12,992	11,554	12,568	13,700	14,052	13,700	(352)	-3%
Materials & Supplies	2,455	28,761	206,115	240,850	238,116	239,250	1,134	0%
Contracts & Services	1,972,260	1,821,185	2,030,813	2,605,761	2,258,734	1,911,703	(347,031)	-15%
Employee Support	-	-	-	3,000	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	8,680	8,680	
Other Operating Uses	41,625	43,723	43,817	47,685	44,177	48,685	4,508	10%
Subtotal	2,123,489	2,006,773	2,382,448	3,006,036	2,642,291	2,313,171	(329,120)	-12%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	1,697,663	1,697,663	1,697,663	1,697,663	1,697,663	1,697,663	-	0%
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	1,697,663	1,697,663	1,697,663	1,697,663	1,697,663	1,697,663	-	0%
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	54,645	57,446	41,315	43,873	39,546	44,519	4,973	13%
Subtotal	54,645	57,446	41,315	43,873	39,546	44,519	4,973	13%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**3,875,797**	**3,761,882**	**4,121,426**	**4,747,572**	**4,379,500**	**4,055,353**	**(324,147)**	**-7%**
NET	**(3,875,797)**	**(3,761,882)**	**(4,121,426)**	**(4,747,572)**	**(4,379,500)**	**(4,055,353)**	**324,147**	**-7%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 353 Collection System

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	157	-	(157)	-100%
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	157	-	(157)	-100%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**157**	**-**	**(157)**	**-100%**
Operating Uses								
Wages, Salaries, Stipends	54,010	90,151	107,714	130,506	116,534	135,426	18,892	16%
Employee Benefits	54,491	73,752	89,374	103,054	96,764	115,162	18,398	19%
Utilities & Telephone	10,402	11,103	14,297	13,945	15,423	15,800	377	2%
Materials & Supplies	27,153	37,236	35,265	41,210	25,716	45,560	19,844	77%
Contracts & Services	289,845	31,429	12,035	80,333	71,076	31,800	(39,276)	-55%
Employee Support	1,406	1,841	1,322	12,550	3,127	5,350	2,223	71%
Grants/Contributions to Others	-	-	-	-	-	8,680	8,680	
Other Operating Uses	4,247	4,614	4,977	5,000	4,722	5,400	678	14%
Subtotal	441,554	250,126	264,984	386,598	333,362	363,178	29,816	9%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	121,385	134,455	138,183	162,604	152,409	175,876	23,467	15%
Subtotal	121,385	134,455	138,183	162,604	152,409	175,876	23,467	15%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**562,939**	**384,581**	**403,167**	**549,202**	**485,771**	**539,054**	**53,283**	**11%**
NET	**(562,939)**	**(384,581)**	**(403,167)**	**(549,202)**	**(485,614)**	**(539,054)**	**(53,440)**	**11%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 413 Sewer Fund
Dept: 356 County Community Service Area (CSA)

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	139,245	211,399	141,541	285,524	135,388	260,099	124,711	92%
Subtotal	139,245	211,399	141,541	285,524	135,388	260,099	124,711	92%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**139,245**	**211,399**	**141,541**	**285,524**	**135,388**	**260,099**	**124,711**	**92%**
Operating Uses								
Wages, Salaries, Stipends	31,990	65,297	37,375	68,081	31,072	69,206	38,134	123%
Employee Benefits	28,768	36,003	34,451	53,443	31,573	55,454	23,881	76%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	12,876	46,929	47,277	62,200	30,154	31,000	846	3%
Contracts & Services	56,942	52,003	27,145	53,600	44,254	57,000	12,746	29%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	294	380	363	1,029	1,029	1,150	121	12%
Subtotal	130,870	200,612	146,611	238,353	138,082	213,810	75,728	55%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	36,206	52,902	47,126	49,381	49,278	48,518	(760)	-2%
Subtotal	36,206	52,902	47,126	49,381	49,278	48,518	(760)	-2%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**167,076**	**253,514**	**193,737**	**287,734**	**187,360**	**262,328**	**74,968**	**40%**
NET	**(27,831)**	**(42,115)**	**(52,196)**	**(2,210)**	**(51,972)**	**(2,229)**	**49,743**	**-96%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: **413** **Sewer Fund**
Dept: **357** **WWTP Major Maintenance**

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	53,013	56,175	60,269	73,808	69,431	70,919	1,488	2%
Employee Benefits	42,838	43,506	49,476	65,340	60,932	64,870	3,938	6%
Utilities & Telephone	923	696	698	1,185	1,344	1,305	(39)	-3%
Materials & Supplies	648	944	468	340	347	340	(7)	-2%
Contracts & Services	85,385	58,606	26,877	83,900	69,672	27,400	(42,272)	-61%
Employee Support	195	340	-	1,000	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	183,002	160,267	137,788	225,573	201,726	164,834	(36,892)	-18%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	38,617	45,598	41,287	56,972	53,491	52,849	(642)	-1%
Subtotal	38,617	45,598	41,287	56,972	53,491	52,849	(642)	-1%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**221,619**	**205,865**	**179,075**	**282,545**	**255,217**	**217,683**	**(37,534)**	**-15%**
NET	**(221,619)**	**(205,865)**	**(179,075)**	**(282,545)**	**(255,217)**	**(217,683)**	**37,534**	**-15%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 913 Sewer CIP Fund
Dept: n/a Sewer CIP Fund - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	21,095	61,684	58,773	50,000	50,000	50,000	-	0%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	21,095	61,684	58,773	50,000	50,000	50,000	-	0%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	1,156,757	1,156,757	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	1,156,757	1,156,757	
Internal Sources								
Interfund Transfers In	742,000	52,398	-	75,000	75,000	593,771	518,771	692%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	742,000	52,398	-	75,000	75,000	593,771	518,771	692%
TOTAL SOURCES	**763,095**	**114,082**	**58,773**	**125,000**	**125,000**	**1,800,528**	**1,675,528**	**1340%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	640,827	107,497	109,945	870,000	150,438	2,468,757	2,318,319	1541%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	640,827	107,497	109,945	870,000	150,438	2,468,757	2,318,319	1541%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	194,074	194,074	-	(194,074)	-100%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	194,074	194,074	-	(194,074)	-100%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**640,827**	**107,497**	**109,945**	**1,064,074**	**344,512**	**2,468,757**	**2,124,245**	**617%**
NET	**122,268**	**6,585**	**(51,172)**	**(939,074)**	**(219,512)**	**(668,229)**	**(448,717)**	**204%**

Interfund Transfers between the Sewer Enterprise and Sewer CIP Funds are shown for transparency but are netted on the audit and for analysis
Sewer CIP is combined with Sewer Fund on audited financial statements
Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: **913** **Sewer Capital Improvement Projects (CIP) Fund**
Dept: **n/a** **All Cost Centers Combined**

Summary of Sewer CIP Projects

Capital projects often take place over more than one fiscal year. The project is budgeted when approved, and the unspent budget amount carries forward until the project is complete. The following shows planned projects and their estimated budget amounts for this fiscal year. For projects that began in a prior year, the amount shown below is the estimated amount remaining at the time of budget preparation. The actual amount remaining for FY 26-27 will be updated when FY 25-26 is finalized. Projects may not be completed this year; unfinished amounts will roll forward until completed.

Open Projects	Authorized from Sewer Fund	Authorized from Grant	Authorized from Other	Total Budget Authorized to Date	Estimated Expense Through FY 25-26	Estimated Budget FY 26-27
RBC gear box	127,000			127,000	-	127,000
Boiler	228,000			228,000	-	228,000
Influent gate	219,000			219,000	184,000	35,000
Primary influent valves	120,000			120,000	-	120,000
Influent pump rebuild	151,000			151,000	-	151,000
Gas flare	79,000			79,000	-	79,000
Primary buildings	28,000			28,000	-	28,000
Chemical pumps	56,000			56,000	-	56,000
City sewer main projects	488,000			488,000	-	488,000
WWTP improvements (design)		2,108,000		2,108,000	951,243	1,156,757
	1,496,000	2,108,000	-	3,604,000	1,135,243	2,468,757

City of Crescent City FY 2026-27 Budget

Fund: 419 + 919 Water Fund and Water CIP Fund
Dept: n/a Water - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	20,757	28,511	29,419	27,300	26,500	27,300	800	3%
Other Operating Sources	5,070	5,027	140,427	76,630	69,956	60,977	(8,979)	-13%
Operating Grants/Contributions	-	78,625	-	-	-	-	-	
Charges for Services	2,611,769	2,679,045	2,604,342	2,744,197	2,697,334	3,788,494	1,091,160	40%
Subtotal	2,637,596	2,791,208	2,774,188	2,848,127	2,793,790	3,876,771	1,082,981	39%
Financing Sources								
Interest Income	83,890	210,115	219,023	140,744	138,048	140,744	2,696	2%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	83,890	210,115	219,023	140,744	138,048	140,744	2,696	2%
Capital Sources								
Capital Leases/Rentals	19,132	19,132	19,132	24,648	24,648	-	(24,648)	-100%
Capital Grants/Contributions	90,789	478,666	138,425	805,122	97,629	803,122	705,493	723%
Gain on Sale of Assets	(26,952)	-	700	-	1,400	-	(1,400)	-100%
Subtotal	82,969	497,798	158,257	829,770	123,677	803,122	679,445	549%
Internal Sources								
Interfund Transfers In	771,221	1,011,334	870,020	610,200	610,200	795,000	184,800	30%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	771,221	1,011,334	870,020	610,200	610,200	795,000	184,800	30%
TOTAL SOURCES	**3,575,676**	**4,510,455**	**4,021,488**	**4,428,841**	**3,665,715**	**5,615,637**	**1,949,922**	**53%**
Operating Uses								
Wages, Salaries, Stipends	587,751	674,963	719,007	850,802	832,068	906,976	74,908	9%
Employee Benefits	(110,906)	426,499	544,268	567,278	544,149	626,623	82,474	15%
Utilities & Telephone	193,791	207,342	282,390	349,651	340,329	375,537	35,208	10%
Materials & Supplies	182,781	205,856	227,825	298,018	245,049	257,940	12,891	5%
Contracts & Services	314,229	251,627	308,314	544,917	352,403	561,189	208,786	59%
Employee Support	9,868	13,006	26,324	25,755	20,522	22,809	2,287	11%
Grants/Contributions to Others	-	77,418	-	-	-	-	-	
Other Operating Uses	17,717	18,883	22,344	23,500	23,355	26,400	3,045	13%
Subtotal	1,195,231	1,875,594	2,130,472	2,659,921	2,357,875	2,777,474	419,599	18%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	382,806	468,370	587,214	2,264,801	346,706	2,714,309	2,367,603	683%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	382,806	468,370	587,214	2,264,801	346,706	2,714,309	2,367,603	683%
Financing Uses								
Debt Principal Repaid	350,000	175,000	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	350,000	175,000	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	832,197	1,132,480	891,138	622,350	617,793	795,000	177,207	29%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	530,874	610,123	577,960	680,368	626,648	714,544	87,896	14%
Subtotal	1,363,071	1,742,603	1,469,098	1,302,718	1,244,441	1,509,544	265,103	21%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**3,291,108**	**4,261,567**	**4,186,784**	**6,227,440**	**3,949,022**	**7,001,327**	**3,052,305**	**77%**
EST EFFECT ON WORKING CAP	**284,568**	**248,888**	**(165,296)**	**(1,798,599)**	**(283,307)**	**(1,385,690)**	**(1,102,383)**	**389%**
WORKING CAPITAL	**3,536,257**	**4,287,753**	**4,355,762**	**2,557,163**	**4,072,455**	**2,686,765**	**(1,385,690)**	**-34%**
FUND BALANCE	**11,722,617**	**12,307,067**	**12,337,484**	**12,493,686**	**12,090,883**	**13,109,502**	**1,018,619**	**8%**

Interfund Transfers between the Water Fund and Water CIP Fund are included here for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 000 Non Departmental

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	20,757	28,511	29,419	27,300	26,500	27,300	800	3%
Other Operating Sources	5,070	5,027	23,355	5,000	5,000	40,000	35,000	700%
Operating Grants/Contributions	-	78,625	-	-	-	-	-	
Charges for Services	2,608,443	2,675,540	2,600,994	2,740,897	2,694,034	3,785,194	1,091,160	41%
Subtotal	2,634,270	2,787,703	2,653,768	2,773,197	2,725,534	3,852,494	1,126,960	41%
Financing Sources								
Interest Income	66,246	138,996	140,739	90,744	88,048	90,744	2,696	3%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	66,246	138,996	140,739	90,744	88,048	90,744	2,696	3%
Capital Sources								
Capital Leases/Rentals	19,132	19,132	19,132	24,648	24,648	-	(24,648)	-100%
Capital Grants/Contributions	90,789	476,461	133,546	110,000	97,629	108,000	10,371	11%
Gain on Sale of Assets	(26,952)	-	700	-	1,400	-	(1,400)	-100%
Subtotal	82,969	495,593	153,378	134,648	123,677	108,000	(15,677)	-13%
Internal Sources								
Interfund Transfers In	-	435,628	-	210,200	210,200	-	(210,200)	-100%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	435,628	-	210,200	210,200	-	(210,200)	-100%
TOTAL SOURCES	**2,783,485**	**3,857,920**	**2,947,885**	**3,208,789**	**3,147,459**	**4,051,238**	**903,779**	**29%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	(503,341)	6,339	72,701	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	77,418	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	(503,341)	83,757	72,701	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	832,197	696,852	891,138	412,150	407,593	795,000	387,407	95%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	832,197	696,852	891,138	412,150	407,593	795,000	387,407	95%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**328,856**	**780,609**	**963,839**	**412,150**	**407,593**	**795,000**	**387,407**	**95%**
NET	**2,454,629**	**3,077,311**	**1,984,046**	**2,796,639**	**2,739,866**	**3,256,238**	**516,372**	**19%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 110 City Council
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	12,238	11,534	11,534	12,316	782	7%
Employee Benefits	-	-	21,838	12,517	12,564	23,351	10,787	86%
Utilities & Telephone	-	-	479	1,710	949	1,710	761	80%
Materials & Supplies	-	-	190	592	51	592	541	1061%
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	102	3,560	1,008	2,443	1,435	142%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	34,847	29,913	26,106	40,412	14,306	55%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	14,683	9,953	9,337	13,554	4,217	45%
Subtotal	-	-	14,683	9,953	9,337	13,554	4,217	45%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**49,530**	**39,866**	**35,443**	**53,966**	**18,523**	**52%**
NET	**-**	**-**	**(49,530)**	**(39,866)**	**(35,443)**	**(53,966)**	**(18,523)**	**52%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 111 City Manager

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	44,273	48,381	53,425	61,218	60,208	62,504	2,296	4%
Employee Benefits	27,547	30,006	33,719	37,484	37,326	40,343	3,017	8%
Utilities & Telephone	704	659	893	820	725	825	100	14%
Materials & Supplies	758	199	202	1,674	1,521	408	(1,113)	-73%
Contracts & Services	-	-	-	1,000	-	1,000	1,000	
Employee Support	1,981	2,560	2,222	3,318	2,348	2,150	(198)	-8%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	75,263	81,805	90,461	105,514	102,128	107,230	5,102	5%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	28,225	35,734	32,353	37,419	33,100	39,085	5,985	18%
Subtotal	28,225	35,734	32,353	37,419	33,100	39,085	5,985	18%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**103,488**	**117,539**	**122,814**	**142,933**	**135,228**	**146,315**	**11,087**	**8%**
NET	**(103,488)**	**(117,539)**	**(122,814)**	**(142,933)**	**(135,228)**	**(146,315)**	**(11,087)**	**8%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 113 City Clerk
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	28,198	27,726	28,247	28,995	748	3%
Employee Benefits	-	-	19,422	20,445	20,534	22,247	1,713	8%
Utilities & Telephone	-	-	339	746	476	755	279	59%
Materials & Supplies	-	-	696	566	755	1,225	470	62%
Contracts & Services	-	-	6,348	4,989	4,353	8,774	4,421	102%
Employee Support	-	-	109	88	119	568	449	377%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	55,112	54,560	54,484	62,564	8,080	15%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	16,627	18,638	16,722	19,473	2,751	16%
Subtotal	-	-	16,627	18,638	16,722	19,473	2,751	16%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**71,739**	**73,198**	**71,206**	**82,037**	**10,831**	**15%**
NET	**-**	**-**	**(71,739)**	**(73,198)**	**(71,206)**	**(82,037)**	**(10,831)**	**15%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 114 Human Resources
* Budgeted as internal service fund charge until FY 24-25

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	7,554	7,679	11,521	3,842	50%
Employee Benefits	-	-	917	6,713	6,756	9,332	2,576	38%
Utilities & Telephone	-	-	39	328	192	237	45	23%
Materials & Supplies	-	-	354	391	401	365	(36)	-9%
Contracts & Services	-	-	10,039	2,753	2,753	136	(2,617)	-95%
Employee Support	-	-	260	1,118	1,118	495	(623)	-56%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	11,609	18,857	18,899	22,086	3,187	17%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	2,177	6,085	5,817	7,925	2,108	36%
Subtotal	-	-	2,177	6,085	5,817	7,925	2,108	36%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**13,786**	**24,942**	**24,716**	**30,011**	**5,295**	**21%**
NET	**-**	**-**	**(13,786)**	**(24,942)**	**(24,716)**	**(30,011)**	**(5,295)**	**21%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 120 Finance

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	100,015	116,364	122,278	156,114	143,999	146,388	2,389	2%
Employee Benefits	68,743	73,413	74,340	101,523	90,376	102,370	11,994	13%
Utilities & Telephone	6,257	5,570	6,460	6,127	6,323	6,747	424	7%
Materials & Supplies	17,876	21,292	21,036	29,035	23,648	26,638	2,990	13%
Contracts & Services	54,272	63,590	61,119	78,439	75,775	79,486	3,711	5%
Employee Support	1,075	3,104	5,333	4,552	1,769	3,218	1,449	82%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	248,238	283,333	290,566	375,790	341,890	364,847	22,957	7%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	78,088	95,392	72,812	99,842	89,703	94,535	4,832	5%
Subtotal	78,088	95,392	72,812	99,842	89,703	94,535	4,832	5%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**326,326**	**378,725**	**363,378**	**475,632**	**431,593**	**459,382**	**27,789**	**6%**
NET	**(326,326)**	**(378,725)**	**(363,378)**	**(475,632)**	**(431,593)**	**(459,382)**	**(27,789)**	**6%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 130 Attorney

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	21,443	22,208	25,232	30,493	29,360	30,854	1,494	5%
Employee Benefits	12,765	13,212	15,081	16,778	16,779	18,951	2,172	13%
Utilities & Telephone	389	360	405	455	340	450	110	32%
Materials & Supplies	143	246	490	685	680	285	(395)	-58%
Contracts & Services	-	-	-	1,000	-	1,000	1,000	
Employee Support	1,144	946	1,176	2,144	1,332	1,860	528	40%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	35,884	36,972	42,384	51,555	48,491	53,400	4,909	10%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	13,202	15,453	13,940	17,577	15,328	18,927	3,599	23%
Subtotal	13,202	15,453	13,940	17,577	15,328	18,927	3,599	23%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**49,086**	**52,425**	**56,324**	**69,132**	**63,819**	**72,327**	**8,508**	**13%**
NET	**(49,086)**	**(52,425)**	**(56,324)**	**(69,132)**	**(63,819)**	**(72,327)**	**(8,508)**	**13%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 112 / 140 Economic Development and Grants
* This was dept 112 from FY 21-22 through FY 25-26; beginning FY 26-27 it is dept 140.

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	28,221	26,706	10,991	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	28,221	26,706	10,991	-	-	-	-	
TOTAL SOURCES	**28,221**	**26,706**	**10,991**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	20,684	19,730	22,819	27,868	28,216	28,206	(10)	0%
Employee Benefits	11,976	11,033	12,565	16,401	16,543	17,146	603	4%
Utilities & Telephone	141	122	188	135	330	135	(195)	-59%
Materials & Supplies	-	-	320	185	-	137	137	
Contracts & Services	81	-	-	425	52	270	218	419%
Employee Support	500	716	-	875	224	375	151	67%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	33,382	31,601	35,892	45,889	45,365	46,269	904	2%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	12,817	13,652	13,274	17,052	15,256	17,234	1,978	13%
Subtotal	12,817	13,652	13,274	17,052	15,256	17,234	1,978	13%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**46,199**	**45,253**	**49,166**	**62,941**	**60,621**	**63,503**	**2,882**	**5%**
NET	**(17,978)**	**(18,547)**	**(38,175)**	**(62,941)**	**(60,621)**	**(63,503)**	**(2,882)**	**5%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 371 Water Operations

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	375,893	442,067	433,122	512,101	505,941	569,671	63,730	13%
Employee Benefits	255,230	277,835	281,570	345,262	335,699	382,323	46,624	14%
Utilities & Telephone	186,300	200,631	273,587	339,330	330,994	364,678	33,684	10%
Materials & Supplies	156,647	171,210	175,597	249,890	208,182	223,290	15,108	7%
Contracts & Services	258,380	174,633	161,474	360,450	186,477	425,270	238,793	128%
Employee Support	5,168	5,680	17,122	10,100	12,604	11,700	(904)	-7%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	17,276	18,313	21,800	22,900	22,755	25,800	3,045	13%
Subtotal	1,254,894	1,290,369	1,364,272	1,840,033	1,602,652	2,002,732	400,080	25%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	350,000	175,000	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	350,000	175,000	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	384,592	433,714	400,724	462,243	430,269	493,520	63,251	15%
Subtotal	384,592	433,714	400,724	462,243	430,269	493,520	63,251	15%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**1,989,486**	**1,899,083**	**1,764,996**	**2,302,276**	**2,032,921**	**2,496,252**	**463,331**	**23%**
NET	**(1,989,486)**	**(1,899,083)**	**(1,764,996)**	**(2,302,276)**	**(2,032,921)**	**(2,496,252)**	**(463,331)**	**23%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 419 Water Fund
Dept: 372 Community Service Districts

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	89,580	71,630	64,956	20,977	(43,979)	-68%
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	3,326	3,505	3,348	3,300	3,300	3,300	-	0%
Subtotal	3,326	3,505	92,928	74,930	68,256	24,277	(43,979)	-64%
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**3,326**	**3,505**	**92,928**	**74,930**	**68,256**	**24,277**	**(43,979)**	**-64%**
Operating Uses								
Wages, Salaries, Stipends	25,443	26,213	21,695	16,194	16,884	16,521	(363)	-2%
Employee Benefits	16,174	14,661	12,115	10,155	7,572	10,560	2,988	39%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	7,357	12,909	28,940	15,000	9,811	5,000	(4,811)	-49%
Contracts & Services	1,496	13,404	69,334	95,861	82,993	45,253	(37,740)	-45%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	441	570	544	600	600	600	-	0%
Subtotal	50,911	67,757	132,628	137,810	117,860	77,934	(39,926)	-34%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	13,950	16,178	11,370	11,559	11,116	10,291	(825)	-7%
Subtotal	13,950	16,178	11,370	11,559	11,116	10,291	(825)	-7%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**64,861**	**83,935**	**143,998**	**149,369**	**128,976**	**88,225**	**(40,751)**	**-32%**
NET	**(61,535)**	**(80,430)**	**(51,070)**	**(74,439)**	**(60,720)**	**(63,948)**	**(3,228)**	**5%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis

Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 919 Water CIP Fund
Dept: n/a Water CIP Fund - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	27,492	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	27,492	-	-	-	-	
Financing Sources								
Interest Income	17,644	71,119	78,284	50,000	50,000	50,000	-	0%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	17,644	71,119	78,284	50,000	50,000	50,000	-	0%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	2,205	4,879	695,122	-	695,122	695,122	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	2,205	4,879	695,122	-	695,122	695,122	
Internal Sources								
Interfund Transfers In	743,000	549,000	859,029	400,000	400,000	795,000	395,000	99%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	743,000	549,000	859,029	400,000	400,000	795,000	395,000	99%
TOTAL SOURCES	**760,644**	**622,324**	**969,684**	**1,145,122**	**450,000**	**1,540,122**	**1,090,122**	**242%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	382,806	468,370	587,214	2,264,801	346,706	2,714,309	2,367,603	683%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	382,806	468,370	587,214	2,264,801	346,706	2,714,309	2,367,603	683%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	435,628	-	210,200	210,200	-	(210,200)	-100%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	435,628	-	210,200	210,200	-	(210,200)	-100%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**382,806**	**903,998**	**587,214**	**2,475,001**	**556,906**	**2,714,309**	**2,157,403**	**387%**
NET	**377,838**	**(281,674)**	**382,470**	**(1,329,879)**	**(106,906)**	**(1,174,187)**	**(1,067,281)**	**998%**

Interfund Transfers between the Water Enterprise and Water CIP Funds are shown for transparency but are netted on the audit and for analysis
Water CIP is combined with Water Fund on audited financial statements
Depreciation expense is not budgeted

City of Crescent City FY 2026-27 Budget

Fund: 919 Water Capital Improvement Projects (CIP) Fund
Dept: n/a All Cost Centers Combined

Summary of Water CIP Projects

Capital projects often take place over more than one fiscal year. The project is budgeted when approved, and the unspent budget amount carries forward until the project is complete. The following shows planned projects and their estimated budget amounts for this fiscal year. For projects that began in a prior year, the amount shown below is the estimated amount remaining at the time of budget preparation. The actual amount remaining for FY 26-27 will be updated when FY 25-26 is finalized. Projects may not be completed this year; unfinished amounts will roll forward until completed.

Open Projects	Authorized from Water Fund	Authorized from Grant	Authorized from Other	Total Budget Authorized to Date	Estimated Expense Through FY 25-26	Estimated Budget FY 26-27
Surge protection	712,000	200,000		912,000	165,730	746,270
Meter replacements	1,570,000			1,570,000	779,925	790,075
Water main replacements	375,000			375,000	115,143	259,857
Ground source well	154,000	500,000		654,000	5,893	648,107
Amador tank rehab	174,781			174,781	144,781	30,000
Washington tank rehab	140,322			140,322	40,322	100,000
Chlorination generator	140,000			140,000	-	140,000
	3,266,103	700,000	-	3,966,103	1,251,794	2,714,309

Internal Service Funds

City of Crescent City FY 2026-27 Budget

Fund: 420 Information Technology Fund
Dept: 115 Information Technology

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	487	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	487	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	4,500	15,750	82,404	34,000	4,000	54,000	50,000	1250%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	351,369	404,892	446,683	553,424	553,424	568,541	15,117	3%
Subtotal	355,869	420,642	529,087	587,424	557,424	622,541	65,117	12%
TOTAL SOURCES	**356,356**	**420,642**	**529,087**	**587,424**	**557,424**	**622,541**	**65,117**	**12%**
Operating Uses								
Wages, Salaries, Stipends	151,856	160,364	169,625	203,520	203,520	211,979	8,459	4%
Employee Benefits	85,790	94,402	111,566	140,975	140,975	150,218	9,243	7%
Utilities & Telephone	13,922	13,068	15,086	15,615	15,615	14,462	(1,153)	-7%
Materials & Supplies	13,964	18,433	10,716	40,290	10,290	55,290	45,000	437%
Contracts & Services	89,775	116,587	147,943	187,830	157,830	195,248	37,418	24%
Employee Support	3,245	1,821	5,983	9,175	9,175	5,325	(3,850)	-42%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	358,552	404,675	460,919	597,405	537,405	632,522	95,117	18%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	6,417	5,138	5,258	6,500	6,500	6,500	-	0%
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	6,417	5,138	5,258	6,500	6,500	6,500	-	0%
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**364,969**	**409,813**	**466,177**	**603,905**	**543,905**	**639,022**	**95,117**	**17%**
EST EFFECT ON WORKING CAP	**(8,613)**	**10,829**	**62,910**	**(16,481)**	**13,519**	**(16,481)**	**(30,000)**	**-222%**
WORKING CAPITAL	**(57,426)**	**(36,342)**	**14,087**	**(2,394)**	**27,606**	**11,125**	**(16,481)**	**-60%**
FUND BALANCE	**(8,613)**	**2,216**	**65,124**	**48,643**	**78,643**	**62,162**	**(16,481)**	**-21%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 506 Building Maintenance Fund
Dept: 506 Building Maintenance

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	-	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	33,298	-	-	15,000	15,000	-	(15,000)	-100%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	224,372	275,698	280,033	221,637	221,637	238,501	16,864	8%
Subtotal	257,670	275,698	280,033	236,637	236,637	238,501	1,864	1%
TOTAL SOURCES	**257,670**	**275,698**	**280,033**	**236,637**	**236,637**	**238,501**	**1,864**	**1%**
Operating Uses								
Wages, Salaries, Stipends	86,283	79,599	64,235	88,832	88,832	103,317	14,485	16%
Employee Benefits	52,139	49,927	47,894	61,248	61,248	81,067	19,819	32%
Utilities & Telephone	7,172	8,252	8,850	9,777	9,777	8,750	(1,027)	-11%
Materials & Supplies	28,714	28,302	25,537	27,200	27,200	21,587	(5,613)	-21%
Contracts & Services	83,362	110,169	133,517	49,580	49,580	23,780	(25,800)	-52%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	257,670	276,249	280,033	236,637	236,637	238,501	1,864	1%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**257,670**	**276,249**	**280,033**	**236,637**	**236,637**	**238,501**	**1,864**	**1%**
EST EFFECT ON WORKING CAP	**-**	**(551)**	**-**	**-**	**-**	**-**	**-**	
WORKING CAPITAL	**-**	**(551)**	**(551)**	**(551)**	**(551)**	**(551)**	**-**	**0%**
FUND BALANCE	**-**	**(551)**	**(551)**	**(551)**	**(551)**	**(551)**	**-**	**0%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 508 Equipment Fund
Dept: 508 Equipment

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	8	3,542	88	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	11,805	8,167	14,201	20,000	20,000	18,000	(2,000)	-10%
Subtotal	11,813	11,709	14,289	20,000	20,000	18,000	(2,000)	-10%
Financing Sources								
Interest Income	760	6,470	5,983	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	760	6,470	5,983	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	263,265	180,976	330,038	-	-	-	-	
Gain on Sale of Assets	25,780	-	15,652			-	-	
Subtotal	289,045	180,976	345,690	-	-	-	-	
Internal Sources								
Interfund Transfers In	188,658	252,232	163,462	115,400	115,400	76,000	(39,400)	-34%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	386,500	292,157	397,911	402,667	402,667	437,141	34,474	9%
Subtotal	575,158	544,389	561,373	518,067	518,067	513,141	(4,926)	-1%
TOTAL SOURCES	**876,776**	**743,544**	**927,335**	**538,067**	**538,067**	**531,141**	**(6,926)**	**-1%**
Operating Uses								
Wages, Salaries, Stipends	122,086	79,258	112,296	118,480	118,480	137,988	19,508	16%
Employee Benefits	79,015	68,883	85,717	102,593	102,593	111,359	8,766	9%
Utilities & Telephone	15,871	15,805	20,432	23,480	23,480	23,480	-	0%
Materials & Supplies	128,194	128,436	158,775	159,750	159,750	169,150	9,400	6%
Contracts & Services	3,121	3,797	3,226	7,164	7,164	7,164	-	0%
Employee Support	2,138	-	9,271	11,200	11,200	6,000	(5,200)	-46%
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	350,425	296,179	389,717	422,667	422,667	455,141	32,474	8%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	231,910	252,232	192,800	75,400	75,400	36,000	(39,400)	-52%
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	231,910	252,232	192,800	75,400	75,400	36,000	(39,400)	-52%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**582,335**	**548,411**	**582,517**	**498,067**	**498,067**	**491,141**	**(6,926)**	**-1%**
EST EFFECT ON WORKING CAP	**31,176**	**14,157**	**14,780**	**40,000**	**40,000**	**40,000**	**-**	**0%**
WORKING CAPITAL	**128,988**	**143,146**	**157,927**	**197,927**	**197,927**	**237,927**	**40,000**	**20%**
FUND BALANCE	**1,573,211**	**1,815,025**	**2,120,350**	**2,003,750**	**2,003,750**	**1,847,750**	**(156,000)**	**-8%**

Depreciation expense is not budgeted

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 620 Insurance Fund
Dept: 620 Insurance

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	76,684	75,000	96,340	-	120,230	-	(120,230)	-100%
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	76,684	75,000	96,340	-	120,230	-	(120,230)	-100%
Financing Sources								
Interest Income	1,985	6,610	8,261	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	1,985	6,610	8,261	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	382,704	567,046	654,026	866,559	799,972	957,298	157,326	20%
Subtotal	382,704	567,046	654,026	866,559	799,972	957,298	157,326	20%
TOTAL SOURCES	**461,373**	**648,656**	**758,627**	**866,559**	**920,202**	**957,298**	**37,096**	**4%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	382,704	567,046	654,026	866,559	799,972	1,002,528	202,556	25%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	382,704	567,046	654,026	866,559	799,972	1,002,528	202,556	25%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	59,946	25,750	125,249	92,786	62,786	151,723	88,937	142%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	59,946	25,750	125,249	92,786	62,786	151,723	88,937	142%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**442,650**	**592,796**	**779,275**	**959,345**	**862,758**	**1,154,251**	**291,493**	**34%**
EST EFFECT ON WORKING CAP	**18,723**	**55,860**	**(20,648)**	**(92,786)**	**57,444**	**(196,953)**	**(254,397)**	**-443%**
WORKING CAPITAL	**154,447**	**210,307**	**189,659**	**96,873**	**247,103**	**50,150**	**(196,953)**	**-80%**
FUND BALANCE	**154,447**	**210,307**	**189,659**	**96,873**	**247,103**	**50,150**	**(196,953)**	**-80%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 630 Other Post Employment Benefits Trust
Dept: n/a All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	344	124	346	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	344	124	346	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	110,186	113,805	123,034	163,043	163,043	161,007	(2,036)	-1%
Subtotal	110,186	113,805	123,034	163,043	163,043	161,007	(2,036)	-1%
TOTAL SOURCES	**110,530**	**113,929**	**123,380**	**163,043**	**163,043**	**161,007**	**(2,036)**	**-1%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	106,381	109,690	119,358	158,543	158,543	156,507	(2,036)	-1%
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	3,849	4,480	4,081	4,500	4,500	4,500	-	0%
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	110,230	114,170	123,439	163,043	163,043	161,007	(2,036)	-1%
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**110,230**	**114,170**	**123,439**	**163,043**	**163,043**	**161,007**	**(2,036)**	**-1%**
NET	**300**	**(241)**	**(59)**	**-**	**-**	**-**	**-**	
FUND BALANCE	**300**	**59**	**-**	**-**	**-**	**-**	**-**	
WORKING CAPITAL BALANCE	**300**	**59**	**-**	**-**	**-**	**-**	**-**	

General Capital Improvements and Public Safety Vehicle Replacements

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 901 Capital Improvement Projects (CIP) Fund
Dept: n/a CIP Fund - All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	25,501	69,721	76,091	-	45,050	-	(45,050)	-100%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	25,501	69,721	76,091	-	45,050	-	(45,050)	-100%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	81,378	1,194,282	2,919,957	8,965,390	1,010,244	7,955,146	6,944,902	687%
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	81,378	1,194,282	2,919,957	8,965,390	1,010,244	7,955,146	6,944,902	687%
Internal Sources								
Interfund Transfers In	1,239,336	2,199,192	846,062	968,000	968,000	506,302	(461,698)	-48%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	1,239,336	2,199,192	846,062	968,000	968,000	506,302	(461,698)	-48%
TOTAL SOURCES	**1,346,215**	**3,463,195**	**3,842,110**	**9,933,390**	**2,023,294**	**8,461,448**	**6,438,154**	**318%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	1,414,377	2,591,911	4,754,781	11,243,663	1,567,729	10,024,032	8,456,303	539%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	1,414,377	2,591,911	4,754,781	11,243,663	1,567,729	10,024,032	8,456,303	539%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	64,000	64,000	-	(64,000)	-100%
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	64,000	64,000	-	(64,000)	-100%
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Transfer Pebble Beach balances to new fund			(146,270)	-	-			
TOTAL USES	**1,414,377**	**2,591,911**	**4,608,511**	**11,307,663**	**1,631,729**	**10,024,032**	**8,392,303**	**514%**
NET	**(68,162)**	**871,284**	**(766,401)**	**(1,374,273)**	**391,565**	**(1,562,584)**	**(1,954,149)**	**-499%**
FUND BALANCE	**1,385,239**	**2,256,523**	**1,490,122**	**115,849**	**1,881,687**	**319,103**	**(1,562,584)**	**-83%**

City of Crescent City FY 2026-27 Budget

Fund: **901** **General Capital Improvement Projects (CIP) Fund**
Dept: **n/a** **All Cost Centers Combined**

Summary of General CIP Projects

Capital projects often take place over more than one fiscal year. The project is budgeted when approved, and the unspent budget amount carries forward until the project is complete. The following shows planned projects and their estimated budget amounts for this fiscal year. For projects that began in a prior year, the amount shown below is the estimated amount remaining at the time of budget preparation. The actual amount remaining for FY 26-27 will be updated when FY 25-26 is finalized. Projects may not be completed this year; unfinished amounts will roll forward until completed.

Open Projects	Authorized from City Fund	Authorized from Grant	Authorized from Other	Total Budget Authorized to Date	Estimated Expense Through FY 25-26	Estimated Budget FY 26-27	
City Hall	355,000			355,000	214,705	140,295	
Fire Hall facility improvements	132,269			132,269	16,181	116,088	City Gen Fund,
Police Department facility improvements	295,000			295,000	247,788	47,212	City Gen Fund,
Measure S street projects (rolling balance)	2,634,254			2,634,254	1,026,842	1,607,412	Measure S
Gateway (Gen Fund portion)	30,350			30,350	24,117	6,233	City Gen Fund
Beachfront Park (bike park, kidtown, loop, exercise stations)		5,450,000		5,450,000	1,894,013	3,555,987	Prop 68 SPP, H
Beachfront Park (amphitheater, plaza)		3,000,000		3,000,000	266,926	2,733,074	Prop 68 RRTP
Tolowa Interpretive Walk		2,712,952		2,712,952	973,849	1,739,103	Prop 68 Per Ca
Cultural Center improvements	16,000			16,000		16,000	City Gen Fund
Pool roof	220,000			220,000	202,372	17,628	City Gen Fund,
Pool audio	20,000			20,000	10,000	10,000	Measure S
Pool scoreboard	20,000			20,000		20,000	Measure S
Pool window tint	15,000			15,000		15,000	Measure S
	3,737,873	11,162,952	-	14,900,825	4,876,793	10,024,032	

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 902 Beachfront Park Donations
Dept: 470 Parks

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	167	439	446	-	-	-	-	
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	167	439	446	-	-	-	-	
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**167**	**439**	**446**	**-**	**-**	**-**	**-**	
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
NET	**167**	**439**	**446**	**-**	**-**	**-**	**-**	
FUND BALANCE	**8,765**	**9,204**	**9,650**	**9,650**	**9,650**	**9,650**	**-**	**0%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: **903** **Pebble Beach Drive**
Dept: **364** **Streets**

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	-	-	121,949	-	88,506	-	(88,506)	-100%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	-	-	121,949	-	88,506	-	(88,506)	-100%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	113,944	13,052,697	15,988	13,403,593	13,387,605	83735%
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	113,944	13,052,697	15,988	13,403,593	13,387,605	83735%
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**-**	**-**	**235,893**	**13,052,697**	**104,494**	**13,403,593**	**13,299,099**	**12727%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	4,825,140	8,252,711	6,220	8,531,491	8,525,271	137062%
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	4,825,140	8,252,711	6,220	8,531,491	8,525,271	137062%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Transfer Pebble Beach balances to new fund			146,270	-	-			
TOTAL USES	**-**	**-**	**4,971,410**	**8,252,711**	**6,220**	**8,531,491**	**8,525,271**	**137062%**
NET	**-**	**-**	**(4,735,517)**	**4,799,986**	**98,274**	**4,872,102**	**4,773,828**	**4858%**
FUND BALANCE	**-**	**-**	**(4,735,517)**	**64,469**	**(4,637,243)**	**234,859**	**4,872,102**	**-105%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 930 Fire Vehicle & Equipment Replacement Fund
Dept: 230 Fire

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	2,867	13,633	34,541	-	17,248	-	(17,248)	-100%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	2,867	13,633	34,541	-	17,248	-	(17,248)	-100%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	38,000	245,500	335,500	155,500	155,500	155,500	-	0%
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	38,000	245,500	335,500	155,500	155,500	155,500	-	0%
TOTAL SOURCES	**40,867**	**259,133**	**370,041**	**155,500**	**172,748**	**155,500**	**(17,248)**	**-10%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	167,892	147,107	147,107	-	(147,107)	-100%
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	167,892	147,107	147,107	-	(147,107)	-100%
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**-**	**-**	**167,892**	**147,107**	**147,107**	**-**	**(147,107)**	**-100%**
NET	**40,867**	**259,133**	**202,149**	**8,393**	**25,641**	**155,500**	**129,859**	**506%**
FUND BALANCE	**192,066**	**451,199**	**653,348**	**661,741**	**678,989**	**834,489**	**155,500**	**23%**

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 940 Police Vehicle Replacement Fund
Dept: 240 Police

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	-	-	-	-	-	-	-	
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Sources								
Interest Income	1,313	729	1,181	-	176	-	(176)	-100%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	1,313	729	1,181	-	176	-	(176)	-100%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	190,000	80,000	80,000	-	-	80,000	80,000	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	190,000	80,000	80,000	-	-	80,000	80,000	
TOTAL SOURCES	**191,313**	**80,729**	**81,181**	**-**	**176**	**80,000**	**79,824**	**45355%**
Operating Uses								
Wages, Salaries, Stipends	-	-	-	-	-	-	-	
Employee Benefits	-	-	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	-	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	243,453	98,831	78,485	-	-	86,329	86,329	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	243,453	98,831	78,485	-	-	86,329	86,329	
Financing Uses								
Debt Principal Repaid	-	-	-	-	-	-	-	
Debt Interest Paid	-	-	-	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**243,453**	**98,831**	**78,485**	**-**	**-**	**86,329**	**86,329**	
NET	**(52,140)**	**(18,102)**	**2,696**	**-**	**176**	**(6,329)**	**(6,505)**	**-3696%**
FUND BALANCE	**21,559**	**3,457**	**6,153**	**6,153**	**6,329**	**-**	**(6,329)**	**-100%**

Fiduciary Funds

DRAFT

City of Crescent City FY 2026-27 Budget

Fund: 991 RDA Successor Agency
Dept: n/a All Cost Centers Combined

	FY 2022-23 Actual	FY 2023-24 Actual	FY 2024-25 Actual	FY 2025-26 Budget	FY 2025-26 Estimated	FY 2026-27 Proposed	Var $	Var %
Operating Sources								
Taxes	95,000	165,419	45,387	45,387	143,536	-	(143,536)	-100%
Special Assessments	-	-	-	-	-	-	-	
Licenses & Permits	-	-	-	-	-	-	-	
Fines & Penalties	-	-	-	-	-	-	-	
Other Operating Sources	-	-	-	-	-	-	-	
Operating Grants/Contributions	-	-	-	-	-	-	-	
Charges for Services	-	-	-	-	-	-	-	
Subtotal	95,000	165,419	45,387	45,387	143,536	-	(143,536)	-100%
Financing Sources								
Interest Income	4,052	3,196	3,831	-	1,421	-	(1,421)	-100%
Debt Proceeds	-	-	-	-	-	-	-	
Other Financing Sources	-	-	-	-	-	-	-	
Subtotal	4,052	3,196	3,831	-	1,421	-	(1,421)	-100%
Capital Sources								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Grants/Contributions	-	-	-	-	-	-	-	
Gain on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Internal Sources								
Interfund Transfers In	-	-	-	-	-	-	-	
Interfund Loans In	-	-	-	-	-	-	-	
Interfund Services Provided	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL SOURCES	**99,052**	**168,615**	**49,218**	**45,387**	**144,957**	**-**	**(144,957)**	**-100%**
Operating Uses								
Wages, Salaries, Stipends	-	1,341	-	-	-	-	-	
Employee Benefits	4	320	-	-	-	-	-	
Utilities & Telephone	-	-	-	-	-	-	-	
Materials & Supplies	-	-	-	-	-	-	-	
Contracts & Services	-	1,800	-	-	-	-	-	
Employee Support	-	-	-	-	-	-	-	
Grants/Contributions to Others	-	-	-	-	-	-	-	
Other Operating Uses	-	-	-	-	-	-	-	
Subtotal	4	3,461	-	-	-	-	-	
Capital Uses								
Capital Leases/Rentals	-	-	-	-	-	-	-	
Capital Equipment	-	-	-	-	-	-	-	
Capital Improvements	-	-	-	-	-	-	-	
Loss on Sale of Assets	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Financing Uses								
Debt Principal Repaid	155,296	90,000	165,419	45,387	45,387	159,778	114,391	252%
Debt Interest Paid	3,975	3,300	2,059	-	-	-	-	
Other Financing Uses	-	-	-	-	-	-	-	
Subtotal	159,271	93,300	167,478	45,387	45,387	159,778	114,391	252%
Internal Uses								
Interfund Transfers Out	-	-	-	-	-	-	-	
Interfund Loans Out	-	-	-	-	-	-	-	
Interfund Services Used	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
Extraordinary Items								
Extraordinary Item	-	-	-	-	-	-	-	
Subtotal	-	-	-	-	-	-	-	
TOTAL USES	**159,275**	**96,761**	**167,478**	**45,387**	**45,387**	**159,778**	**114,391**	**252%**
NET	**(60,223)**	**71,854**	**(118,260)**	**-**	**99,570**	**(159,778)**	**(259,348)**	**-260%**
FUND BALANCE	**(463,367)**	**(301,513)**	**(254,354)**	**(208,967)**	**(109,397)**	**(109,397)**	**-**	**0%**

Cost Allocations

DRAFT

City of Crescent City
Information Technology
FY 26-27 Allocation

Fund	Dept	Project	Cost Center	Budgeted Wages & Benefits	Dept %	Fund Share	Allocation
001	110		Council	35,566	0.5%		768
001	111		City Manager	94,867	1.4%		2,149
001	112		Community Support	74,868	1.1%		1,689
001	113		City Clerk	50,478	0.8%		1,228
001	114		Human Resources	119,946	1.8%		2,763
001	120		Finance	293,354	4.4%		6,754
001	130		City Attorney	94,641	1.4%		2,149
001	140		Grants & Econ Dev	93,622	1.4%		2,149
001	230		Fire	1,196,618	18.1%		27,785
001	240		Police	2,831,661	42.9%		65,854
001	250		Code Enforcement	65,481	1.0%		1,535
001	251		Building Inspection	90,429	1.4%		2,149
001	313		Planning	81,030	1.2%		1,842
001	350		Public Works Admin	153,103	2.3%		3,531
001	364		Streets	53,526	0.8%		1,228
001	364	10023	Street Lights	61,799	0.9%		1,382
001	364	10024	Street Sweeping	11,975	0.2%		307
001	364	10025	Street Maintenance	108,104	1.6%		2,456
001	470		Parks	324,479	4.9%		7,522
001	471		Cultural Center	50,882	0.8%		1,228
001	480		Pool	717,437	10.9%		16,732
			General Fund Total	6,603,866		27.0%	153,200
110			Housing Authority	658,387		2.0%	11,371
412			RV Park	266,054		5.0%	28,427
413	110		Council	36,225	2.4%		4,503
413	111		City Manager	104,548	7.0%		13,133
413	113		City Clerk	57,008	3.8%		7,130
413	114		Human Resources	18,774	1.3%		2,439
413	120		Finance	275,742	18.4%		34,522
413	130		City Attorney	55,806	3.7%		6,942
413	140		Grants & Econ Dev	50,838	3.4%		6,379
413	351		Sewer Lab	296,305	19.8%		37,148
413	352		WWTP Operations	91,153	6.1%		11,445
413	353		Collection System	177,706	11.9%		22,327
413	353	35019	City Lift Stations	72,881	4.9%		9,193
413	356	35020	Oregon Lift Station	8,195	0.5%		938
413	356	35022	CSA Lift Stations	116,465	7.8%		14,634
413	357		Major Maintenance	135,789	9.1%		17,073
			Sewer Fund Total	1,497,435		33.0%	187,806
419	110		Council	35,667	2.3%		4,315
419	111		City Manager	102,847	6.7%		12,570
419	113		City Clerk	51,242	3.3%		6,191
419	114		Human Resources	20,853	1.4%		2,627
419	120		Finance	248,758	16.2%		30,394
419	130		City Attorney	49,805	3.2%		6,004
419	140		Grants & Econ Dev	45,352	3.0%		5,629
419	371		Water Operations & Maint.	951,994	62.1%		116,511
419	372	41028	Bertsch Oceanview	14,759	1.0%		1,876
419	372	41029	Churchtree	6,224	0.4%		750
419	372	41030	Meadowbrook	6,098	0.4%		750
			Water Fund Total	1,533,599		33.0%	187,617
			ISF Expenses (less reimbursed expenses)				568,541

City of Crescent City
Building Maintenance
FY 26-27 Allocation

Fund	Dept	Project	Cost Center	Budgeted Wages & Benefits	Dept %	Fund Share	Allocation
001	110		Council	35,566	0.5%		331
001	111		City Manager	94,867	1.4%		928
001	112		Community Support	74,868	1.1%		729
001	113		City Clerk	50,478	0.8%		530
001	114		Human Resources	119,946	1.8%		1,193
001	120		Finance	293,354	4.4%		2,916
001	130		City Attorney	94,641	1.4%		928
001	140		Grants and Econ Dev	93,622	1.4%		928
001	230		Fire	1,196,618	18.1%		11,994
001	240		Police	2,831,661	42.9%		28,427
001	250		Code Enforcement	65,481	1.0%		663
001	251		Building Inspection	90,429	1.4%		928
001	313		Planning	81,030	1.2%		795
001	350		Public Works Admin	153,103	2.3%		1,524
001	364		Streets	53,526	0.8%		530
001	364	10023	Street Lights	61,799	0.9%		596
001	364	10024	Street Sweeping	11,975	0.2%		133
001	364	10025	Street Maintenance	108,104	1.6%		1,060
001	470		Parks	324,479	4.9%		3,247
001	471		Cultural Center	50,882	0.8%		530
001	480		Pool	717,437	10.9%		7,223
			General Fund Total	6,603,866		28.0%	66,133
110			Housing Authority	658,387		1% labor	1,844
412			RV Park	266,054		5.0%	11,833
413	110		Council	36,225	2.4%		1,903
413	111		City Manager	104,548	7.0%		5,550
413	113		City Clerk	57,008	3.8%		3,013
413	114		Human Resources	18,774	1.3%		1,031
413	120		Finance	275,742	18.4%		14,588
413	130		City Attorney	55,806	3.7%		2,933
413	140		Grants and Econ Dev	50,838	3.4%		2,696
413	351		Sewer Lab	296,305	19.8%		15,697
413	352		WWTP Operations	91,153	6.1%		4,836
413	353		Collection System	177,706	11.9%		9,434
413	353	35019	City Lift Stations	72,881	4.9%		3,885
413	356	35020	Oregon Lift Station	8,195	0.5%		396
413	356	35022	CSA Lift Stations	116,465	7.8%		6,184
413	357		Major Maintenance	135,789	9.1%		7,214
			Sewer Fund Total	1,497,435		33.5%	79,360
419	110		Council	35,667	2.3%		1,823
419	111		City Manager	102,847	6.7%		5,312
419	113		City Clerk	51,242	3.3%		2,616
419	114		Human Resources	20,853	1.4%		1,110
419	120		Finance	248,758	16.2%		12,843
419	130		City Attorney	49,805	3.2%		2,537
419	140		Grants and Econ Dev	45,352	3.0%		2,378
419	371		Water Operations & Maint.	951,994	62.1%		49,233
419	372	41028	Bertsch Oceanview	14,759	1.0%		793
419	372	41029	Churchtree	6,224	0.4%		317
419	372	41030	Meadowbrook	6,098	0.4%		317
			Water Fund Total	1,533,599		33.5%	79,279

ISF Expenses (less other revenue)	238,501
Housing share (1% labor only)	1,844
To allocate to other funds	236,657

DRAFT

City of Crescent City
Equipment
FY 26-27 Allocation

						Proposed Base Budget			
						Base	Fuel	Parts	Total
Fund	**Dept**	**Project**	**Cost Center**	**Units**	**%**	**Allocation**	**Allocation**	**Allocation**	**Allocation**
001	110		Council	-	0.0%	-	-	-	-
001	111		City Manager	0.90	0.8%	2,317	809	848	3,974
001	112		Community Support	-	0.0%	-	-	-	-
001	113		City Clerk	-	0.0%	-	-	-	-
001	114		Human Resources	-	0.0%	-	-	-	-
001	120		Finance	-	0.0%	-	-	-	-
001	130		City Attorney	-	0.0%	-	-	-	-
001	140		Grants and Econ Dev	-	0.0%	-	-	-	-
001	230		Fire	17.00	15.7%	45,474			45,474
001	240		Police	11.00	10.2%	29,543			29,543
001	250		Code Enforcement	-	0.0%	-	-	-	-
001	251		Building Inspection	-	0.0%	-	-	-	-
001	313		Planning	-	0.0%	-	-	-	-
001	350		Public Works Admin	-	0.0%	-	-	-	-
001	364		Streets	-	0.0%	-	-	-	-
001	364	10023	Street Lights	-	0.0%	-	-	-	-
001	364	10024	Street Sweeping	-	0.0%	-	-	-	-
001	364	10025	Street Maintenance	16.73	15.5%	44,894	15,038	15,769	75,701
001	470		Parks	12.70	11.7%	33,888	11,416	11,971	57,275
001	471		Cultural Center	-	0.0%	-	-	-	-
001	480		Pool	-	0.0%	-	-	-	-
			General Fund Total	58.33		156,116	27,263	28,588	211,967
110			Housing Authority	0.50	0.5%	1,448	449	471	2,368
412			RV Park	0.80	0.7%	2,027	719	754	3,500
413	110		Council	-	0.0%	-	-	-	-
413	111		City Manager	-	0.0%	-	-	-	-
413	113		City Clerk	-	0.0%	-	-	-	-
413	114		Human Resources	-	0.0%	-	-	-	-
413	120		Finance	-	0.0%	-	-	-	-
413	130		City Attorney	-	0.0%	-	-	-	-
413	140		Grants and Econ Dev	-	0.0%	-	-	-	-
413	351		Sewer Lab	-	0.0%	-	-	-	-
413	352		WWTP Operations	2.00	1.9%	5,503	1,798	1,885	9,186
413	353		Collection System	17.33	16.0%	46,343	15,578	16,335	78,256
413	353	35019	City Lift Stations	-	0.0%	-	-	-	-
413	356	35020	Oregon Lift Station	-	0.0%	-	-	-	-
413	356	35022	CSA Lift Stations	-	0.0%	-	-	-	-
413	357		Major Maintenance	-	0.0%	-	-	-	-
			Sewer Fund Total	19.33		51,846	17,376	18,220	87,442
419	110		Council	-	0.0%	-	-	-	-
419	111		City Manager	-	0.0%	-	-	-	-
419	113		City Clerk	-	0.0%	-	-	-	-
419	114		Human Resources	-	0.0%	-	-	-	-
419	120		Finance	-	0.0%	-	-	-	-
419	130		City Attorney	-	0.0%	-	-	-	-
419	140		Grants and Econ Dev	-	0.0%	-	-	-	-
419	371		Water Operations & Maint.	29.14	27.0%	78,203	26,193	27,467	131,863
419	372	41028	Bertsch Oceanview	-	0.0%	-	-	-	-
419	372	41029	Churchtree	-	0.0%	-	-	-	-
419	372	41030	Meadowbrook	-	0.0%	-	-	-	-
			Water Fund Total	29.14		78,203	26,193	27,467	131,863
			Total units	108.10					
			Units for fuel and parts	80.10					

Total fund expenses	491,141
Vehicle replacements - funded by transfers in from the funds to benefit	36,000
Other revenue	18,000
ISF to allocate	437,141
Fuel	72,000
Parts (for vehicles / equipment)	75,500
Other	289,641
	437,141

DRAFT

City of Crescent City
Insurance
FY 26-27 Allocation

Fund	Dept	Project	Cost Center	Budgeted Wages & Benefits	Dept %	Fund Share	Allocation
001	110		Council	35,566	0.5%		1,292
001	111		City Manager	94,867	1.4%		3,619
001	112		Community Support	74,868	1.1%		2,843
001	113		City Clerk	50,478	0.8%		2,068
001	114		Human Resources	119,946	1.8%		4,652
001	120		Finance	293,354	4.4%		11,373
001	130		City Attorney	94,641	1.4%		3,619
001	140		Grants and Econ Dev	93,622	1.4%		3,619
001	230		Fire	1,196,618	18.1%		46,783
001	240		Police	2,831,661	42.9%		110,884
001	250		Code Enforcement	65,481	1.0%		2,585
001	251		Building Inspection	90,429	1.4%		3,619
001	313		Planning	81,030	1.2%		3,102
001	350		Public Works Admin	153,103	2.3%		5,945
001	364		Streets	53,526	0.8%		2,068
001	364	10023	Street Lights	61,799	0.9%		2,326
001	364	10024	Street Sweeping	11,975	0.2%		517
001	364	10025	Street Maintenance	108,104	1.6%		4,136
001	470		Parks	324,479	4.9%		12,665
001	471		Cultural Center	50,882	0.8%		2,068
001	480		Pool	717,437	10.9%		28,173
			General Fund Total	6,603,866		27.0%	257,956
110			Housing Authority	658,387		2.0%	19,146
412			RV Park	266,054		5.0%	47,865
413	110		Council	36,225	2.4%		7,582
413	111		City Manager	104,548	7.0%		22,114
413	113		City Clerk	57,008	3.8%		12,005
413	114		Human Resources	18,774	1.3%		4,107
413	120		Finance	275,742	18.4%		58,127
413	130		City Attorney	55,806	3.7%		11,689
413	140		Grants and Econ Dev	50,838	3.4%		10,741
413	351		Sewer Lab	296,305	19.8%		62,550
413	352		WWTP Operations	91,153	6.1%		19,270
413	353		Collection System	177,706	11.9%		37,593
413	353	35019	City Lift Stations	72,881	4.9%		15,480
413	356	35020	Oregon Lift Station	8,195	0.5%		1,580
413	356	35022	CSA Lift Stations	116,465	7.8%		24,641
413	357		Major Maintenance	135,789	9.1%		28,748
			Sewer Fund Total	1,497,435		33.0%	316,227
419	110		Council	35,667	2.3%		7,266
419	111		City Manager	102,847	6.7%		21,166
419	113		City Clerk	51,242	3.3%		10,425
419	114		Human Resources	20,853	1.4%		4,423
419	120		Finance	248,758	16.2%		51,177
419	130		City Attorney	49,805	3.2%		10,109
419	140		Grants and Econ Dev	45,352	3.0%		9,477
419	371		Water Operations & Maint.	951,994	62.1%		196,179
419	372	41028	Bertsch Oceanview	14,759	1.0%		3,159
419	372	41029	Churchtree	6,224	0.4%		1,264
419	372	41030	Meadowbrook	6,098	0.4%		1,264
			Water Fund Total	1,533,599		33.0%	315,909
				ISF Expenses Allocated			957,298

Transfers

City of Crescent City FY 2026-27 Budget

Fund	To/From	Purpose	Transfers In	Transfers Out
General Fund				
001	General Fund			
	Transfer in from Gas Tax Fund	To reimburse General Fund for street maintenance	177,942	
	Transfer in from Insurance Fund	To reimburse General Fund for safety expenditures	91,723	
	Transfer out to Internal Service Funds	To cover Internal Service Fund costs		690,378
	Transfer out to Equipment Fund	To cover contribution for vehicle and equipment purchases		40,000
	Transfer out to Capital Improvement Fund	To cover contributions for general capital improvements		505,000
	Transfer out to Fire Vehicle & Equipment Replacemer	To cover contribution for fire vehicle and equipment replacements		155,500
	Transfer out to Police Vehicle Replacement Fund	To cover contribution for police vehicle replacements		80,000
	Transfer out to Volunteer Firefighter Support Fund	To cover contribution for volunteer firefighter support program		12,600
Special Revenue Funds				
104	CDBG Program Income			
	Transfer in from CDBG Rehab Loan Fund	To transfer program income earned in current year	2,000	
	Transfer out to General CIP Fund	To transfer prior year defederalized program income for future project		1,302
	Transfer out to CDBG Covid Fund	To transfer prior year defederalized program income to close out fund		698
107	CDBG Loan Fund			
	Transfer out to CDBG Program Income Fund	To transfer program income earned in current year		2,000
110	Housing			
	Transfer out to Internal Service Funds	To cover Internal Service Fund costs		34,621
115	Gas Tax			
	Transfer out to General Fund	To reimburse General Fund for street maintenance		177,942
121	Volunteer Firefighter Support Fund			
	Transfer in from General Fund	To cover contribution for volunteer firefighter support program	12,600	
154	CDBG Covid			
	Transfer in from CDBG Program Income Fund	To transfer prior year defederalized program income to close out fund	698	
Enterprise Funds				
412	RV Park			
	Transfer out to Internal Service Funds	To cover Internal Service Fund costs		91,742
413	Sewer			
	Transfer in from Insurance Fund	To reimburse Sewer Fund for safety expenditures	6,000	
	Transfer out to Internal Service Funds	To cover Internal Service Fund costs		670,196
	Transfer out to Sewer CIP Fund	To cover CIP costs		593,771
	Transfer out to Equipment Fund	To cover contribution for vehicle and equipment purchases		36,000
419	Water			
	Transfer out to Internal Service Funds	To cover Internal Service Fund costs		714,544
	Transfer out to Water CIP Fund	To cover CIP costs		795,000
Internal Service Funds				
420	Info Tech Services			
	Transfer in from various funds	To cover Information/Technology services	568,541	
	Transfer in from Insurance Fund	To cover safety expenditures	54,000	
506	Building Services			
	Transfer in from various funds	To cover building services	238,501	
508	Equipment Services			
	Transfer in from various funds	To cover equipment services and vehicle and equipment purchases	513,141	
620	Insurance Services			
	Transfer in from various funds	To cover insurance services	957,298	
	Transfer out to General Fund	To cover safety expenditures		91,723
	Transfer out to Sewer Fund	To cover safety expenditures		6,000
	Transfer out to IT Fund	To cover safety expenditures		54,000
Capital Improvement Funds				
901	General CIP Fund			
	Transfer in from General Fund	To cover contributions for general capital improvements	505,000	
	Transfer in from CDBG Program Income Fund	To transfer defederalized program income for future project	1,302	
930	Fire Vehicle & Equipment Replacement Fund			
	Transfer in from General Fund	To cover fire vehicle and equipment replacements	155,500	
913	Sewer CIP Fund			
	Transfer in from Sewer Fund	To cover CIP costs	593,771	
919	Water CIP Fund			
	Transfer in from Water Fund	To cover CIP costs	795,000	
		TOTAL	**4,753,017**	**4,753,017**

Authorized Position Control

City of Crescent City
Position Control
Authorized Positions & Pay Ranges FY 26-27
Adopted 06/15/26
Effective first full pay period beginning after 07/01/26 (07/10/26 for 9/80 schedule and 07/12/26 for traditional schedule)

		Pay Range - Previous			Pay Range - Updated					
	Bargaining Unit	Grade	Min Annual	Max Annual	Grade	Min Annual	Max Annual	Auth FTE - Previous	Change	Auth FTE - Updated
Administration										
City Manager	Contract	51	131,165	167,398	51	135,100	172,420	1.00		1.00
City Attorney	Contract	50	127,962	163,322	50	131,800	168,221	1.00		1.00
City Clerk / Administrative Analyst	CCMEA	26	70,762	90,334	26	72,884	93,044	1.00		1.00
Grants and Economic Development								1.00		1.00
Grants and Economic Development Manager	CCMEA	30	78,104	99,674	30	80,447	102,664			
Grants and Economic Development	CCMEA	24	67,350	85,966	24	69,371	88,545			
Human Resources								1.00		1.00
Human Resources Manager	Unrepresented	32	82,056	104,707	32	84,518	107,848			
Human Resources Analyst	Unrepresented	20	61,027	77,896	20	62,858	80,233			
IT Management								1.50		1.50
Information Systems Administrator	CCMEA	Z	80,829	103,168	Z	83,254	106,263			
Information Technology Manager	CCMEA	32	82,056	104,707	32	84,518	107,848			
IT / GIS Technician	CCMEA	14	52,624	67,205	14	54,203	69,221	1.00		1.00
Finance										
Director of Finance	Contract	44	110,344	140,816	44	113,654	145,040	1.00		1.00
Finance Analyst								1.00		1.00
Finance Analyst 2	CCMEA	24	67,350	85,966	24	69,371	88,545			
Finance Analyst 1	CCMEA	20	61,027	77,896	20	62,858	80,233			
Finance Technician								2.00		2.00
Finance Technician - PR/Benefits	CCMEA	16	55,286	70,595	16	56,945	72,713			
Finance Technician - AP	CCMEA	14	52,624	67,205	14	54,203	69,221			
Account Clerk / Utility Billing Specialist								2.50	(0.50)	2.00
Utility Billing Specialist	CECC	7	44,262	56,472	7	45,590	58,166			
Account Clerk	CECC	2	39,125	49,941	2	40,299	51,439			
Office Technician (Part-time)	Unrepresented	2	39,125	49,941	2	40,299	51,439	0.48		0.48
Fire										
Fire Chief								1.46		1.46
Fire Chief	Contract	50	127,962	163,322	50	131,800	168,221			
Fire Chief Interim (Retired Annuitant)	Unrepresented	50	127,962	163,322	50	131,800	168,221			
Fire Chief Extra Help (Retired Annuitant)	Unrepresented	50	127,962	163,322	50	131,800	168,221			
Career Fire Captain ***	CCCFA	FC	72,418	92,391	FC	74,590	95,163	3.00		3.00
Fire Dept Admin Specialist	CECC	12	50,086	63,898	12	51,589	65,815	1.00		1.00
Police										
Chief of Police	Contract	50	127,962	163,322	50	131,800	168,221	1.00		1.00
Lieutenant	CCPOA	PS4	103,064	125,278	PS4	106,156	129,037	-		-
Sergeant	CCPOA	PS3	84,781	103,064	PS3	87,324	106,156	4.00		4.00
Police Officer / Recruit								10.00		10.00
Police Officer	CCPOA	PS2	63,482	84,781	PS2	65,386	87,324			
Police Officer - Limited Term	CCPOA	PS2	63,482	84,781	PS2	65,386	87,324			
Police Recruit	CCPOA	PS1	50,939	50,939	PS1	52,467	52,467			
Exec Assistant, Records Specialist								1.50	(0.50)	1.00
Executive Assistant to the Chief	CECC	12	50,086	63,898	12	51,589	65,815			
Records Specialist	CECC	10	47,674	60,840	10	49,104	62,665			
Planning, Building & Code Enforcement										
Building Inspector & Code Enforcement Officer *								1.46		1.46
Building Inspector & Code Enf Officer	CCMEA	18	58,074	74,152	18	59,816	76,377			
Building Inspector & Code Enf Officer Extra Help (Retired Annuitant)	Unrepresented	18	58,074	74,152	18	59,816	76,377			
Building Inspector & Code Enf Officer Interim (Retired Annuitant)	Unrepresented	18	58,074	74,152	18	59,816	76,377			
Com Dev Spec, Office Tech **								1.00		1.00
Community Development Specialist	CECC	7	44,262	56,472	7	45,590	58,166			
Office Technician	CECC	2	39,125	49,941	2	40,299	51,439			
Recreation										
Recreation Director / Events Coordinator	Contract	36	90,584	115,627	36	93,302	119,096	1.00		1.00
Economic Development and Recreation Assistant	Unrepresented	1	38,168	48,714	1	39,313	50,175	0.48	(0.48)	-
RV Park Supervisor	CCEA	8	45,365	57,907	8	46,726	59,644	1.00		1.00
Aquatics Supervisor	CCMEA	14	52,624	67,205	14	54,203	69,221	1.00		1.00
Relief Supervisor / Lesson Coordinator	CCEA	8	45,365	57,907	8	46,726	59,644	2.00		2.00
Part-time Lifeguard								7.10		7.10
Lifeguard - Designated Head Lifeguard	Unrepresented		36,712	38,792		36,712	38,792			
Lifeguard - Part-Time	Unrepresented		35,672	37,752		35,672	37,752			
Aquatic Specialty Program Instructor	Unrepresented		37,752	41,392		37,752	41,392			
Water Safety Aide	Unrepresented		36,192	38,272		36,192	38,272			
Public Works										
Director of Public Works	Contract	44	110,344	140,816	44	113,654	145,040	1.00		1.00
Engineering Project Manager	CCMEA	26	70,762	90,334	26	72,884	93,044	2.50		2.50
Engineering Technician	CCMEA	14	52,624	67,205	14	54,203	69,221	-		-

		Pay Range - Previous			Pay Range - Updated					
	Bargaining Unit	Grade	Min Annual	Max Annual	Grade	Min Annual	Max Annual	Auth FTE - Previous	Change	Auth FTE - Updated
Public Works Maintenance Manager	CCMEA	32	82,056	104,707	32	84,518	107,848	1.00		1.00
Public Works Parks / Buildings / Maintenance Worker & Equipment Operator								12.96	(0.69)	12.27
Senior Public Works Maintenance Worker	CCEA	16	55,286	70,595	16	56,945	72,713			
Senior Bldgs & Parks Maintenance Worker	CCEA	10	47,674	60,840	10	######	######			
Maintenance Worker 3	CCEA	10	47,674	60,840	10	49,104	62,665			
Maintenance Worker 2	CCEA	6	43,181	55,099	6	44,476	56,752			
Maintenance Worker 1	CCEA	2	39,125	49,941	2	40,299	51,439			
Maintenance Worker 1 (Seasonal)	Unrepresented	2	39,125	49,941	2	40,299	51,439			
Equipment Operator 2	CCEA	12	50,086	63,898	12	51,589	65,815			
Equipment Operator 1	CCEA	7	44,262	56,472	7	45,590	58,166			
EMOT								4.00		4.00
Senior Electrical Mechanical Operations	CCEA	28	74,339	94,890	28	76,569	97,736			
Electrical Mechanical Operations Technician 2	CCEA	22	64,106	81,806	22	66,029	84,261			
Electrical Mechanical Operations Technician 1	CCEA	16	55,286	70,595	16	56,945	72,713			
Utility Mechanic	CCEA	8	45,365	57,907	8	46,726	59,644			
Laboratory Director	CCMEA	26	70,762	90,334	26	72,884	93,044	1.00		1.00
Laboratory Assistant / Tech								1.00		1.00
Laboratory Technician 2	CCEA	18	58,074	74,152	18	59,816	76,377			
Laboratory Technician 1	CCEA	10	47,674	60,840	10	49,104	62,665			
Laboratory Assistant	CCEA	2	39,125	49,941	2	40,299	51,439			
Fleet Mechanic								2.00		2.00
Senior Mechanic	CCEA	22	64,106	81,806	22	66,029	84,261			
Mechanic 2	CCEA	12	50,086	63,898	12	51,589	65,815			
Mechanic 1	CCEA	6	43,181	55,099	6	44,476	56,752			
Office Technician (Part-time)	Unrepresented	2	39,125	49,941	2	40,299	51,439	0.48	(0.48)	-
Housing Authority										
Housing Authority Director	Contract	41	102,482	130,790	41	105,556	134,714	1.00		1.00
Housing Authority Inspector	CCEA	8	45,365	57,907	8	46,726	59,644	-		-
Tenant Services Technician	CECC	10	47,674	60,840	10	49,104	62,665	2.00		2.00
Office Technician / Administrative Assistant								1.00		1.00
Administrative Assistant	CECC	6	43,181	55,099	6	44,476	56,752			
Office Technician	CECC	2	39,125	49,941	2	40,299	51,439			
Totals								**81.42**	**(2.65)**	**78.77**

* Split between Building/Code Enforcement and Housing Authority
** Split between Planning and Public Works
*** Annual wages based on 48/96 schedule including scheduled overtime

Pay ranges do not include special pay (certification, longevity, special assignment, etc.) or overtime (except for Fire Captain 48/96 scheduled OT).
Min and max annual pay ranges are equivalent to full-time (base hourly rate times 2,080 hours except for Fire Captains). Actual hours may be different.

DRAFT

City of Crescent City
Grade / Step chart FY 26-27
Effective first full pay period beginning after 07/01/26 (07/10/26 for 9/80 schedule and 07/12/26 for traditional schedule)

Grade	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
1	18.90050	19.84810	20.83690	21.87720	22.96900	24.12260
2	19.37430	20.34250	21.36220	22.43340	23.55610	24.73030
3	19.85840	20.84720	21.88750	22.97930	24.13290	25.33800
4	20.35280	21.37250	22.44370	23.56640	24.74060	25.97660
5	20.85750	21.89780	22.98960	24.14320	25.34830	26.61520
6	21.38280	22.45400	23.57670	24.75090	25.98690	27.28470
7	21.91840	23.01020	24.16380	25.36890	26.63580	27.96450
8	22.46430	23.58700	24.77150	26.00750	27.30530	28.67520
9	23.03080	24.18440	25.38950	26.65640	27.98510	29.38590
10	23.60760	24.79210	26.02810	27.32590	28.69580	30.12750
11	24.19470	25.39980	26.66670	27.99540	29.39620	30.86910
12	24.80240	26.03840	27.33620	28.70610	30.13780	31.64160
13	25.42040	26.68730	28.02630	29.42710	30.90000	32.44500
14	26.05900	27.36710	28.73700	30.17900	31.69310	33.27930
15	26.70790	28.04690	29.44770	30.92060	32.46560	34.09300
16	27.37740	28.74730	30.18930	31.70340	33.28960	34.95820
17	28.05720	29.45800	30.93090	32.47590	34.10330	35.81310
18	28.75760	30.19960	31.71370	33.29990	34.96850	36.71950
19	29.47860	30.95150	32.49650	34.12390	35.83370	37.62590
20	30.22020	31.73430	33.32050	34.98910	36.74010	38.57350
21	30.97210	32.51710	34.14450	35.85430	37.64650	39.53140
22	31.74460	33.33080	34.99940	36.75040	38.58380	40.50990
23	32.53770	34.16510	35.87490	37.66710	39.55200	41.52960
24	33.35140	35.02000	36.77100	38.61470	40.54080	42.56990
25	34.18570	35.89550	37.68770	39.57260	41.55020	43.63080
26	35.04060	36.79160	38.63530	40.57170	42.60080	44.73290
27	35.91610	37.70830	39.59320	41.57080	43.65140	45.83500
28	36.81220	38.65590	40.59230	42.62140	44.75350	46.98860
29	37.72890	39.61380	41.59140	43.67200	45.85560	48.15250
30	38.67650	40.61290	42.64200	44.77410	47.00920	49.35760
31	39.64470	41.62230	43.70290	45.88650	48.18340	50.59360
32	40.63350	42.66260	44.79470	47.02980	49.37820	51.85020
33	41.65320	43.73380	45.91740	48.21430	50.62450	53.15830
34	42.69350	44.82560	47.07100	49.42970	51.90170	54.49730
35	43.76470	45.94830	48.24520	50.65540	53.18920	55.84660
36	44.85650	47.10190	49.46060	51.93260	54.52820	57.25770
37	45.97920	48.27610	50.68630	53.22010	55.87750	58.66880
38	47.13280	49.49150	51.96350	54.55910	57.28860	60.15200
39	48.30700	50.72750	53.26130	55.92900	58.73060	61.66610
40	49.51210	51.98410	54.57970	57.30920	60.17260	63.18020
41	50.74810	53.28190	55.94960	58.75120	61.68670	64.76640
42	52.01500	54.62090	57.35040	60.21380	63.22140	66.38350
43	53.31280	55.98050	58.78210	61.71760	64.80760	68.05210
44	54.64150	57.37100	60.24470	63.25230	66.41440	69.73100
45	56.01140	58.81300	61.75880	64.84880	68.09330	71.50260
46	57.41220	60.28590	63.30380	66.46590	69.79280	73.28450
47	58.84390	61.78970	64.87970	68.12420	71.53350	75.10760
48	60.31680	63.33470	66.49680	69.82370	73.31540	76.98220
49	61.82060	64.91060	68.15510	71.56440	75.13850	78.89800

DRAFT

Grade	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
50	63.36560	66.53800	69.86490	73.35660	77.02340	80.87560
51	64.95180	68.19630	71.60560	75.19000	78.94950	82.89440
Z	40.02580	42.03430	44.13550	46.33970	48.65720	51.08800
FC	24.94660	26.19290	27.50100	28.87090	30.31290	31.82700
PS1	25.22470	n/a	n/a	n/a	n/a	n/a
PS2	31.43560	33.79430	36.32810	39.05760	41.98280	n/a
PS3	41.98280	44.08400	46.28820	48.60570	51.03650	n/a
PS4	51.03650	53.59090	56.26890	59.08080	62.03690	n/a

Appropriations Limit

DRAFT

RESOLUTION NO. 2026-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY, CALIFORNIA SELECTING THE ANNUAL ADJUSTMENT FACTORS FOR THE CALCULATION OF THE 2026-27 APPROPRIATIONS LIMIT FOR THE CITY OF CRESCENT CITY

WHEREAS, Article XIII B of the California Constitution does specify that the Appropriations Limit for cities may increase annually if selection of the adjustment factors for calculation thereof has been made; and

WHEREAS, the net change in the total county population or the net change in the total city population may be selected for the population adjustment factor; and

WHEREAS, the change in California per capita personal income or the change in the local assessment roll due to local non-residential construction may be selected for the inflationary adjustment factor.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Crescent City as follows:

1. The net change in total city population and the change in California per capita personal income are hereby selected as the annual adjustment factors for calculation of the 2026-27 Appropriations Limit for Crescent City, California.

2. The annual appropriations limit for fiscal year 2026-27 is $44,160,197.

BE IT FURTHER RESOLVED, that in the absence of the data necessary to calculate the increase in the non-residential assessed valuation, the fiscal year 2026-27 Appropriations Limit for Crescent City is hereby adopted on a provisional basis using the alternative factor of per capita income for the inflationary adjustment and may need to be adjusted once the assessment data is available.

The above and foregoing Resolution No. 2026-XX was introduced by Council Member _____, seconded by Council Member _____ and passed and adopted at a meeting of the City Council of the City of Crescent City held on the 15th day of June 2026 by the following polled vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Isaiah Wright, Mayor

ATTEST:

_____
Robin Altman, City Clerk

DRAFT

APPROPRIATIONS LIMIT: Fiscal Year 2026-27

			% Change over prior year
A.	Price Factor		
	Per capita personal income	2026-27	4.95%
	Population Factor		
	City	2026-27	5.55%
	County	2026-27	-1.17%
B.	Calculation		
	Per capita personal income	ratio	1.0495
	Population	ratio	1.0555
	Calculation of factor for FY 2026-27	A times B	1.1077

	2025-26 Limit	2026-27 Limit	2026-27 Proceeds of Taxes	2026-27 Exclusions	2026-27 Appropriations Subject to Limit	2026-27 Under (Over) Limit
General Fund	7,821,760	8,664,533	7,878,165	(500,000)	7,378,165	1,286,368
Special Revenue Funds	7,639,151	8,462,249	-	-	-	8,462,249
Enterprise Funds	19,542,574	21,648,233	-	-	-	21,648,233
Internal Service Funds	2,251,174	2,493,732	-	-	-	2,493,732
Public Financing Authority	1,910,196	2,116,014	-	-	-	2,116,014
Fiduciary Funds	700,012	775,436	-	-	-	775,436
	39,864,867	**44,160,197**	**7,878,165**	**(500,000)**	**7,378,165**	**36,782,032**

May 1, 2026

Dear Fiscal Officer:

Price Factor and Population Information

Appropriations Limit
California Revenue and Taxation Code section 2227 requires the Department of Finance to transmit an estimate of the percentage change in population to local governments. Each local jurisdiction must use their percentage change in population factor for January 1, 2026, in conjunction with a change in the cost of living, or price factor, to calculate their appropriations limit for fiscal year 2026–27. Attachment A provides the change in California's per capita personal income and an example for utilizing the factors to calculate the 2026–27 appropriations limit. Attachment B provides the city and unincorporated county population percentage change. Attachment C provides the population percentage change for counties and their summed incorporated areas. The population percentage change data excludes federal and state institutionalized populations and military populations.

Population Percent Change for Special Districts
Some special districts must establish an annual appropriations limit. California Revenue and Taxation Code section 2228 provides additional information regarding the appropriations limit. Article XIII B, section 9(C) of the California Constitution exempts certain special districts from the appropriations limit calculation mandate. Special districts required by law to calculate their appropriations limit must present the calculation as part of their annual audit. Any questions special districts have on this requirement should be directed to their county, district legal counsel, or the law itself. No state agency reviews the local appropriations limits.

Population Certification
The population certification program applies only to cities and counties. California Revenue and Taxation Code section 11005.6 mandates Finance to automatically certify any population estimate that exceeds the current certified population with the State Controller's Office. **Finance will certify the higher estimate to the State Controller by June 1, 2026**. Please note: The prior year's city population estimates may be revised. The per capita personal income change is based on historical data.

If you have any questions regarding this data, please contact the Demographic Research Unit at (916) 323-4086.

/s Erika Li
Attachment

A. **Price Factor**: Article XIII B specifies that local jurisdictions select their cost of living factor to compute their appropriation limit by a vote of their governing body. The cost of living factor provided here is per capita personal income. If the percentage change in per capita personal income is selected, the percentage change to be used in setting the fiscal year 2026–27 appropriation limit is:

Per Capita Personal Income

Fiscal Year (FY)	Percentage change over prior year
2026-27	4.95

B. Following is an example using sample population change and the change in California per capita personal income as growth factors in computing a 2026–27 appropriation limit.

2026–27:

Per Capita Cost of Living Change = 4.95 percent
Population Change = -0.14 percent

Per Capita Cost of Living converted to a ratio: $\frac{4.95 + 100}{100} = 1.0495$

Population converted to a ratio: $\frac{-0.14 + 100}{100} = 0.9986$

Calculation of factor for FY 2026–27: 1.0495 x 0.9986 = 1.0480

DRAFT

About the Data

FISCAL YEAR 2026-27
Attachment B
Annual Percent Change in Population Minus Exclusions*
January 1, 2025 to January 1, 2026, and Total Population January 1, 2026

City	County	Percent Change 25-26	Population Minus Exclusions 1-1-25	Population Minus Exclusions 1-1-26	Total Population 1-1-26
Crescent City	Del Norte	5.55	4,015	4,238	6,407
Unincorporated	Del Norte	-2.49	20,442	19,932	19,932
Incorporated	Del Norte	5.55	4,015	4,238	6,407
County Total	Del Norte	-1.17	24,457	24,170	26,339

*Exclusions include residents on federal military installations and group quarters residents in state mental institutions, state and federal correctional institutions and veteran homes.

Measure S Oversight Committee Recommendations

RESOLUTION NO. MS2026-03

A RESOLUTION OF THE CRESCENT CITY MEASURE S OVERSIGHT COMMITTEE RECOMMENDING EXPENDITURES OF MEASURE S FUNDS FOR FY 2026-2027

WHEREAS, on November 2, 2020, the voters of the City of Crescent City approved Measure S, an ordinance imposing a local 1.0% Transactions and Use Tax (commonly referred to as a sales tax); and

WHEREAS, Measure S requires a citizens' oversight committee to review and report on Measure S revenues and expenditures; and

WHEREAS, the Measure S Oversight Committee has established and periodically updates a five-year spending plan for Measure S funds; and

WHEREAS, the Measure S Oversight Committee has made recommendations to the City Council based upon the five-year plan as well as other needs and projects brought before the Committee; and

WHEREAS, the Measure S Oversight Committee has met multiple times each fiscal year to receive revenue and expenditure updates as well as to hear requests for additional or different expenditures and has amended its recommendations from time to time; and

WHEREAS, the Measure S Oversight Committee met on March 10, 2026 to receive a presentation from the City Manager and City staff and has updated the five-year expenditure plan; and

WHEREAS, the Measure S Oversight Committee finds the recommended expenditures to be an appropriate use of Measure S funds, which are intended to support the City's Fire Department, Police Department, streets, and swimming pool.

NOW, THEREFORE, BE IT RESOLVED, by the Crescent City Measure S Oversight Committee that the FY 2026-2027 Expenditure Recommendations for Measure S funds as set forth on Exhibit A, attached hereto, are hereby adopted.

PASSED AND ADOPTED and made effective the same day by the Crescent City Measure S Oversight Committee on this 14th day of April 2026, by the following polled vote:

AYES: Committee Members Estlund, Holloway, and Reno
NOES: None
ABSTAIN: None
ABSENT: Committee Member Hyatt and Vice Chair Perry

Dana Reno, Chair

ATTEST:

Robin Altman, City Clerk

Measure S Oversight Committee
Fiscal Year 2026-2027
Expenditure Recommendations
Resolution No. MS 2026-03
Exhibit A

Fire Department ($509,728 net)

Costs shared with Fire District	
Volunteer stipends	100,000
Station staffing	33,000
Firefighter intern program	50,000
Full-time Captain positions (3)	535,000
Training	15,000
Command department training system	3,125
I am Responsing / EO operating system	5,000
Volunteer recruitment and retention	5,000
Equipment and tools	10,000
Radios (for apparatus)	12,000
Pagers (for volunteers, 10 per year)	4,000
Starlink satellite (for 5111 and 3 command vehicles)	4,500
Ipad tablets	5,500
Turnouts and helmets	50,000
Transfer to Veh/Equip Fund (future turnouts)	25,000
City-only costs	
Transfer to apparatus replacement fund	98,000
Transfer to CIP Fund (station alert system at City station)	5,000
Transfer to Veh/Equip Fund (future SCBA)	32,500
Total Fire expenditures	992,625
Fire District reimbursement (estimated)	482,897
Net Fire expenditures	509,728

Police Department ($645,164)

3 additional officers	448,000
Detective assignment (premium pay)	5,600
Body cameras and tasers	47,250
Dash cameras	40,814
Cell phone analyzer (partial cost for annual subscription, data storage, and/or training)	6,000
Medical supplies	1,500
K9 Kostya (ongoing costs - vet, food, training)	8,000
K9 Murtaugh (ongoing costs - vet, food, training)	8,000
Transfer to Vehicle Replacement Fund	80,000
Total Police expenditures	645,164

Street Maintenance / Improvements ($835,000)

Pot hole, crack seal, minor repairs	100,000
Sidewalk repair or install	100,000
Striping	50,000
Street lights	45,000
Street preservation project (transfer to CIP fund)	500,000
Transfer to CIP fund for future equipment (backhoe)	40,000
Total Street expenditures	835,000

Fred Endert Swimming Pool ($395,000)

Operations (staffing, utilities, supplies, etc.)	345,000
Equipment, parts, repairs	50,000
Total Pool expenditures	395,000

Financial Oversight ($8,291)

Independent audit	3,291
Sales tax consultant (projections & business audits)	5,000
Total Finance expenditures	8,291

DRAFT

Total Recommended FY 2026-2027 Measure S Expenditures $2,393,183*

*Net with Crescent Fire Protection District reimbursement

The Committee recognizes that actual expenditures may vary from the recommended amounts, due to staffing (timing of new hires, actual cost of benefits, experience level of new hires, etc.), actual costs of purchases, and timing of projects. Recommended projects may be carried forward to the next fiscal year if not completed in this fiscal year.

RESOLUTION NO. 2026-48

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY REVISING THE SALARY SCHEDULE FOR CERTAIN CONTRACT AND CONFIDENTIAL POSITIONS

WHEREAS, the Crescent City Municipal Code provides that the City Council set employee compensation by resolution; and

WHEREAS, most City employees are represented by employee bargaining units whose pay and working conditions are set forth in Memorandums of Understanding, which are adopted by resolution and which include a Cost-of-Living Adjustment (COLA) for FY 2026-27; and

WHEREAS, City has certain employees who are under contract and are not represented by an employee bargaining unit, and those contracts specify that contract employees shall receive the COLA as that received by the Crescent City Management Employees Association (CCMEA); and

WHEREAS, City has certain confidential unrepresented employees whose pay and working conditions are set by resolution, and the City desires to provide those employees the COLA as that received by the CCMEA; and

WHEREAS, under the current Memorandum of Understanding, the CCMEA will receive a 3.0% COLA effective the first full pay period in July 2026, and best practice is to clearly state the new salary ranges for contract and confidential employees.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CRESCENT CITY, CALIFORNIA, AS FOLLOWS:

That the base salary ranges for contract and confidential employees listed below is approved and effective the first full pay period beginning on or after July 1, 2026 (July 10, 2026 for those employees on the 9/80 schedule or July 12, 2026 for those employees working the traditional schedule):

Contract Position	Grade	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Annual Min	Annual Max
City Manager	**51**	**64.95**	**68.20**	**71.61**	**75.19**	**78.95**	**82.89**	**135,100**	**172,420**
City Attorney	**50**	**63.37**	**66.54**	**69.86**	**73.36**	**77.02**	**80.88**	**131,800**	**168,221**
Fire Chief	**50**	**63.37**	**66.54**	**69.86**	**73.36**	**77.02**	**80.88**	**131,800**	**168,221**
Chief of Police	**50**	**63.37**	**66.54**	**69.86**	**73.36**	**77.02**	**80.88**	**131,800**	**168,221**
Public Works Director	**44**	**54.64**	**57.37**	**60.24**	**63.25**	**66.41**	**69.73**	**113,654**	**145,040**
Finance Director	**44**	**54.64**	**57.37**	**60.24**	**63.25**	**66.41**	**69.73**	**113,654**	**145,040**
Housing Authority Director	**41**	**50.75**	**53.28**	**55.95**	**58.75**	**61.69**	**64.77**	**105,556**	**134,714**
Recreation Director / Events Coordinator	**36**	**44.86**	**47.10**	**49.46**	**51.93**	**54.53**	**57.26**	**93,302**	**119,096**

Confidential Position	Grade	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Annual Min	Annual Max
HR Manager	**32**	**40.63**	**42.66**	**44.79**	**47.03**	**49.38**	**51.85**	**84,518**	**107,848**
HR Analyst	**20**	**30.22**	**31.73**	**33.32**	**34.99**	**36.74**	**38.57**	**62,858**	**80,233**

APPROVED and ADOPTED and made effective the same day at a meeting of the City Council of the City of Crescent City held on the 15th day of June 2026 by the following polled vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Isaiah Wright, Mayor

ATTEST:

_____
Robin Altman, City Clerk

RESOLUTION NO. 2026-49

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY, CALIFORNIA SELECTING THE ANNUAL ADJUSTMENT FACTORS FOR THE CALCULATION OF THE 2026-27 APPROPRIATIONS LIMIT FOR THE CITY OF CRESCENT CITY

WHEREAS, Article XIII B of the California Constitution does specify that the Appropriations Limit for cities may increase annually if selection of the adjustment factors for calculation thereof has been made; and

WHEREAS, the net change in the total county population or the net change in the total city population may be selected for the population adjustment factor; and

WHEREAS, the change in California per capita personal income or the change in the local assessment roll due to local non-residential construction may be selected for the inflationary adjustment factor.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Crescent City as follows:

1. The net change in total city population and the change in California per capita personal income are hereby selected as the annual adjustment factors for calculation of the 2026-27 Appropriations Limit for Crescent City, California.

2. The annual appropriations limit for fiscal year 2026-27 is $44,160,197.

BE IT FURTHER RESOLVED, that in the absence of the data necessary to calculate the increase in the non-residential assessed valuation, the fiscal year 2026-27 Appropriations Limit for Crescent City is hereby adopted on a provisional basis using the alternative factor of per capita income for the inflationary adjustment and may need to be adjusted once the assessment data is available.

The above and foregoing Resolution No. 2026-49 was introduced by Council Member _____, seconded by Council Member _____ and passed and adopted at a meeting of the City Council of the City of Crescent City held on the 15th day of June 2026 by the following polled vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Isaiah Wright, Mayor

ATTEST:

_____
Robin Altman, City Clerk

APPROPRIATIONS LIMIT: Fiscal Year 2026-27

		% Change over prior year
A. Price Factor		
Per capita personal income	2026-27	4.95%
Population Factor		
City	2026-27	5.55%
County	2026-27	-1.17%
B. Calculation		
Per capita personal income	ratio	1.0495
Population	ratio	1.0555
Calculation of factor for FY 2026-27	A times B	1.1077

	2025-26 Limit	2026-27 Limit	2026-27 Proceeds of Taxes	2026-27 Exclusions	2026-27 Appropriations Subject to Limit	2026-27 Under (Over) Limit
General Fund	7,821,760	8,664,533	7,878,165	(500,000)	7,378,165	1,286,368
Special Revenue Funds	7,639,151	8,462,249	-	-	-	8,462,249
Enterprise Funds	19,542,574	21,648,233	-	-	-	21,648,233
Internal Service Funds	2,251,174	2,493,732	-	-	-	2,493,732
Public Financing Authority	1,910,196	2,116,014	-	-	-	2,116,014
Fiduciary Funds	700,012	775,436	-	-	-	775,436
	39,864,867	**44,160,197**	**7,878,165**	**(500,000)**	**7,378,165**	**36,782,032**

DEPARTMENT OF FINANCE
OFFICE OF THE DIRECTOR

Gavin Newsom ▪ Governor
1021 O Street, Suite 3110 ▪ Sacramento CA 95814 ▪ www.dof.ca.gov

May 1, 2026

Dear Fiscal Officer:

Price Factor and Population Information

Appropriations Limit
California Revenue and Taxation Code section 2227 requires the Department of Finance to transmit an estimate of the percentage change in population to local governments. Each local jurisdiction must use their percentage change in population factor for January 1, 2026, in conjunction with a change in the cost of living, or price factor, to calculate their appropriations limit for fiscal year 2026–27. Attachment A provides the change in California's per capita personal income and an example for utilizing the factors to calculate the 2026–27 appropriations limit. Attachment B provides the city and unincorporated county population percentage change. Attachment C provides the population percentage change for counties and their summed incorporated areas. The population percentage change data excludes federal and state institutionalized populations and military populations.

Population Percent Change for Special Districts
Some special districts must establish an annual appropriations limit. California Revenue and Taxation Code section 2228 provides additional information regarding the appropriations limit. Article XIII B, section 9(C) of the California Constitution exempts certain special districts from the appropriations limit calculation mandate. Special districts required by law to calculate their appropriations limit must present the calculation as part of their annual audit. Any questions special districts have on this requirement should be directed to their county, district legal counsel, or the law itself. No state agency reviews the local appropriations limits.

Population Certification
The population certification program applies only to cities and counties. California Revenue and Taxation Code section 11005.6 mandates Finance to automatically certify any population estimate that exceeds the current certified population with the State Controller's Office. **Finance will certify the higher estimate to the State Controller by June 1, 2026**. Please note: The prior year's city population estimates may be revised. The per capita personal income change is based on historical data.

If you have any questions regarding this data, please contact the Demographic Research Unit at (916) 323-4086.

/s Erika Li
Attachment

May 2026
Attachment A

A. **Price Factor**: Article XIII B specifies that local jurisdictions select their cost of living factor to compute their appropriation limit by a vote of their governing body. The cost of living factor provided here is per capita personal income. If the percentage change in per capita personal income is selected, the percentage change to be used in setting the fiscal year 2026–27 appropriation limit is:

Per Capita Personal Income

Fiscal Year (FY)	Percentage change over prior year
2026-27	4.95

B. Following is an example using sample population change and the change in California per capita personal income as growth factors in computing a 2026–27 appropriation limit.

2026–27:

Per Capita Cost of Living Change = 4.95 percent
Population Change = -0.14 percent

Per Capita Cost of Living converted to a ratio: $\frac{4.95 + 100}{100} = 1.0495$

Population converted to a ratio: $\frac{-0.14 + 100}{100} = 0.9986$

Calculation of factor for FY 2026–27: 1.0495 x 0.9986 = 1.0480

About the Data

FISCAL YEAR 2026-27
Attachment B
Annual Percent Change in Population Minus Exclusions*
January 1, 2025 to January 1, 2026, and Total Population January 1, 2026

City	County	Percent Change 25-26	Population Minus Exclusions 1-1-25	Population Minus Exclusions 1-1-26	Total Population 1-1-26
Crescent City	Del Norte	5.55	4,015	4,238	6,407
Unincorporated	Del Norte	-2.49	20,442	19,932	19,932
Incorporated	Del Norte	5.55	4,015	4,238	6,407
County Total	Del Norte	-1.17	24,457	24,170	26,339

*Exclusions include residents on federal military installations and group quarters residents in state mental institutions, state and federal correctional institutions and veteran homes.

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **DAVID YEAGER, DIRECTOR OF PUBLIC WORKS**
ORRIN PLOCHER, FRESHWATER ENVIRONMENTAL

DATE: **JUNE 15, 2026**

SUBJECT: **2025 URBAN WATER MANAGEMENT PLAN**

RECOMMENDATION

- Open public hearing
  - Hear staff report
  - Council technical questions
  - Receive public comment
- Close public hearing
- Further Council discussion
- Approve and Adopt Resolution No. 2026-50, A Resolution of the City Council of the City of Crescent City Adopting the 2025 Urban Water Management Plan

BACKGROUND

The City of Crescent City has prepared an Urban Water Management Plan (UWMP) in compliance with requirements of the California Department of Water Resources (DWR) pursuant to Urban Water Management Act (UWMP Act) and the Water Conservation Bill of 2009.

The UWMP Act (California Water Code §10610 et seq.) requires urban water suppliers to report, describe, and evaluate the following four areas:

- Water deliveries and uses;
- Water supply sources;
- Efficient water uses; and
- Demand Management Measures (DMMs), including implementation strategy and schedule.

In addition, the Water Conservation Bill of 2009 requires urban water suppliers to report in their UWMPs base daily per capita water use (baseline), urban water use target, interim urban water use target, and compliance daily per capita water use. Crescent City has achieved their 2020 gallons per capita per day reduction goal.

The UWMP Act directs water agencies in carrying out their long-term resource planning responsibilities to ensure adequate water supplies are available to meet existing and future demands (Cal Water Code § 10612(b)). Urban water suppliers are required to assess current demands and supplies over a 20-year planning horizon and consider various drought scenarios. The UWMP Act also requires water shortage contingency planning and drought response actions to be included in a UWMP.

UWMPs are to be prepared every five years by urban water suppliers with 3,000 or more service connections or supplying 3,000 or more acre-feet of water per year.

The assessment included a review and evaluation of historic precipitation data, historic Smith River discharge (flow), and historic groundwater elevations in the Smith River Plain Groundwater Basin. Based on these assessments, the Crescent City water supply (Smith River Underflow) is not currently experiencing the impact of drought and has been reliable even during periods of record low precipitation.

It is predicted that the Crescent City water supply will be reliable even during periods of record low precipitation (single driest year and driest 5 years) into the future for the planning period (20 years).

ANALYSIS

A UWMP, including discussion of the status of a water supplier's implementation of DMMs, is required for an urban water supplier to be eligible for a water management grant or loan administered by DWR, the State Water Resources Control Board (State Water Board), (Cal. Water Code § 10631.5(a)). A current UWMP must also be maintained by the water supplier throughout the term of any grant or loan administered by DWR.

FISCAL IMPACT

There is no fiscal impact for receiving this report.

STRATEGIC PLAN ASSESSMENT

This action supports Goal 1, provide and maintain an efficient, adequate infrastructure to provide for both current and future community needs.

ATTACHMENTS

- Resolution No. 2026-50
- 2025 Urban Water Management Plan

RESOLUTION NO. 2026-50

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY ADOPTING THE 2025 URBAN WATER MANAGEMENT PLAN

WHEREAS, the City prepared a 2025 Urban Water Management Plan (UWMP) in compliance with the requirements of the California Department of Water Resources (DWR) pursuant to Urban Water Management Act (UWMP Act) and the Water Conservation Bill of 2009; and

WHEREAS, the UWMP Act requires development and implementation of a written UWMP that reports, describes, and evaluates the following four areas:

- Water deliveries and uses;
- Water supply sources;
- Efficient water uses; and
- Demand Management Measures (DMMs), including implementation strategy and schedule, and public notification requirements; and

WHEREAS, the City's UWMP will be updated every five years as required by the UWMP Act; and

WHEREAS, the purpose of the UWMP is for water agencies in carrying out their long-term resource planning responsibilities to ensure adequate water supplies are available to meet existing and future water demands; and

WHEREAS, the evaluation of four areas effecting the City's water supply will allow City staff to better manage the water distribution system and help to ensure efficient and cost effective operation of the City's water system into the future; and

WHEREAS, the procedural requirements of the UWMP include public notice, council review and approval, that the City has completed, considered and adopted the Plan.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Crescent City hereby adopts the 2025 Urban Water Management Plan attached hereto and approves its implementation.

PASSED AND ADOPTED and made effective the same day by the City Council of the City of Crescent City on June 15, 2026 by the following polled vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

_____
Isaiah Wright, Mayor

ATTEST:

_____
Robin Altman, City Clerk

2025 URBAN WATER MANAGEMENT PLAN

FOR

CRESCENT CITY, CALIFORNIA

Prepared for:
City of Crescent City
377 J Street
Crescent City, California 95531

June 2026

Prepared by:
Orrin Plocher and Stan Thiesen
of

Freshwater Environmental Services

78 Sunny Brae Center
Arcata, California 95521
Phone (707) 839-0091

DRAFT

TABLE OF CONTENTS

LIST OF TABLES vii

LIST OF FIGURES viii

LIST OF APPENDICES viii

1.0 URBAN WATER MANAGEMENT PLAN INTRODUCTION AND LAY DESCRIPTION 1

1.1 Urban Water Management Planning Act of 1983 1

1.2 Water Conservation Act of 2009 (SB X7-7) 1

1.3 Lay Description 1

2.0 URBAN WATER MANAGEMENT PLAN PREPARATION 3

2.1 Basis for Preparing a Plan 3

2.1.1 Suppliers With Both Wholesale and Retail Sales 3
2.1.2 Public Water Systems 3

2.2 Individual or Regional Plan 3

2.2.1 Regional Reporting 3

2.3 Fiscal or Calendar Year and Units of Measure 3

2.4 Coordination and Outreach 3

2.4.1 Wholesale and Retail Coordination 4
2.4.2 Coordination with Other Agencies and the Community 4
2.4.3 Notice to Cities and Counties 4

2.5 Submittal Tables 5

3.0 SERVICE AREA DESCRIPTION 6

3.1 General Description 6

3.2 Service Area Boundary Maps 8

3.3 Service Area Climate 8

3.4 Service Area Population and Demographics 10

3.4.1 Service Area Population 10

DRAFT

3.5 Other Demographic Factors 10
3.5.1 Other Social, Economic, and Demographic Factors 10
3.6 Land Use within Service Area 11
3.7 Submittal Tables 11

4.0 WATER USE CHARACTERIZATION 12
4.1 Non-Potable Versus Potable Water Use 12
4.2 Past, Current, and Projected Water Use by Sector 12
4.2.1 Optional Water-Use Sectors in Addition to Those Listed in Water Code 12
4.2.2 Past Water Use 12
4.2.3 Current Water Use 14
4.2.4 Projected Water Use 14
4.2.5 Lower-Income Households 14
4.2.6 Climate Change Considerations 15
4.3 Distribution System Water Loss 15
4.3.1 Previous Five Years Distribution System Losses 15
4.3.2 Progress Toward Meeting the Water Loss Performance Standard 16
4.4 Submittal Tables 17

5.0 SB X7-7 BASELINES, 2020 TARGETS, AND 2025 REPORTING 20
5.1 Reporting Requirements for Wholesale Suppliers 20
5.2 Reporting Requirements for Retail Suppliers 20
5.2.1 Supplier was Not an Urban Retail Water Supplier in 2020 20
5.2.2 Supplier Met 2020 Target in 2020 20
5.2.3 Supplier Did Not Meet 2020 Target in 2020—No Change to Service Area 20
5.2.4 Supplier Did Not Meet 2020 Target—Change to Service Area Since 2020 20
5.2.5 Types of Changes to Service Area Since 2020 20
5.2.6 Funding Eligibility 20
5.3 Submittal Tables 21

6.0 NORMAL-YEAR WATER SUPPLY CHARACTERIZATION 22
6.1 Water Supply Analysis Overview 23
6.1.1 Specific Analysis Applicable to All Water Supply Sources 24

DRAFT

6.1.2 Special Considerations 24
6.1.3 Climate Change Effects 24
6.1.4 Regulatory Conditions and Project Development 25
6.1.5 Other Locally Applicable Criteria 25
6.1.6 Wholesale and Retail Suppliers Coordination 25
6.2 Water Supply Characterization 25
6.2.1 Purchased or Imported Water 25
6.2.2 Ground Water 25
6.2.2.1 Basin Description 26
6.2.2.2 Basin Management Information 28
6.2.2.3 Other Considerations 28
6.2.2.4 Past Five Years Groundwater Pumping 28
6.2.3 Stormwater 28
6.2.4 Wastewater and Recycled Water 28
6.2.4.1 Recycled Water Coordination 29
6.2.4.2 Wastewater Collection, Treatment, and Disposal 29
6.2.4.2.1 Wastewater Collected Within the Service Area 29
6.2.4.2.2 Wastewater Treatment and Discharge 29
6.2.4.3 Recycled Water System Description 30
6.2.4.4 Current, Potential, and Projected Recycled Water Uses 30
6.2.4.4.1 Potential Recycled Water Use 30
6.2.4.4.2 Projected Recycled Water Use 30
6.2.4.5 Actions to Encourage and Optimize Future Recycled Water Use 30
6.2.5 Desalinated Water Opportunities 30
6.2.6 Water Exchanges or Transfers 30
6.2.6.1 Exchanges 30
6.2.6.2 Transfers 30
6.2.6.3 Emergency Interties 30
6.2.7 Supply From Storage 30
6.2.8 Other 31
6.2.9 Future Water Projects 31
6.3 Energy Use 31
6.4 Submittal Tables 31

DRAFT

7.0 WATER SERVICE RELIABILITY AND DROUGHT RISK ASSESSMENT....36
7.1 Constraints on Water Sources Considerations....36
7.2 Water Service Reliability Assessment....38
7.2.1 WSRA Year-Type Characterization....38
7.2.1.1 Types of Years....38
7.2.1.2 Sources for Water Data....40
7.2.2 WSRA Supply and Demand Comparison....41
7.2.2.1 Normal Years....41
7.2.2.2 Single Dry Year....41
7.2.2.3 Five Consecutive Dry Years....41
7.2.3 WSRA Description of Management Tools and Options....41
7.3 Drought Risk Assessment....41
7.3.1 DRA Data, Methods, and Basis for Water Shortage Conditions....42
7.3.2 DRA Individual Water Source Reliability....48
7.3.3 DRA Total Water Supply and Use Comparison....48
7.4 Submittal Tables....49
8.0 WATER SHORTAGE CONTINGENCY PLAN....52
8.1 Water Supply Reliability Analysis....52
8.2 Annual Water Supply and Demand Assessment Procedures....52
8.2.1 Decision-Making Process....53
8.2.2 Data and Methodologies....53
8.3 Shortage Response Actions....54
8.4 Shortage Response Actions....54
8.4.1 Supply Augmentation....54
8.4.2 Demand Reduction....55
8.4.3 Operational Changes....55
8.4.4 Additional Mandatory Restrictions....55
8.4.5 Emergency Response Plan....58
8.4.6 Seismic Risk Assessment and Mitigation Plan....58
8.4.7 Shortage Response Action Effectiveness....58
8.5 Communication Protocols....59
8.6 Compliance and Enforcement....60

DRAFT

8.7 Legal Authorities....60
8.7.1 Legal Authorities....60
8.7.2 Proclamation of Local Emergency....60
8.8 Financial Consequences of a Water Shortage Contingency Plan....60
8.8.1 Financial Impacts and Mitigation Action....60
8.8.2 Reporting Cost of Compliance With Excessive Water Use Prohibition During Drought Emergency....61
8.9 Monitoring and Reporting.....61
8.10 Water Shortage Contingency Plan Refinement Procedures....61
8.11 Special Water Feature Distinction....61
8.12 Plan Adoption, Submittal, Availability, and Amendment Procedures....61
8.13 Submittal Tables....62
9.0 DEMAND MANAGEMENT MEASURE....64
9.1 Demand Management Measures for Retail Suppliers....64
9.1.1 Implementation Over the Past Five Years....64
9.1.2 Implementation to Achieve Water-Use Targets....64
9.1.3 Required Demand Management Measures....64
9.1.3.1 Water-Waste Prevention Ordinances....64
9.1.3.2 Metering....64
9.1.3.3 Conservation Pricing....64
9.1.3.4 Public Education and Outreach....65
9.1.3.5 Programs to Assess and Manage Distribution System Real Loss....65
9.1.3.6 Water Conservation Program Coordination and Staffing Support....65
9.1.3.7 Other Demand Management Measures....65
9.2 Demand Management Measures for Wholesale Suppliers....65
9.2.1 Required Demand Management Measures....65
9.2.1.1 Metering....65
9.2.1.2 Public Education and Outreach....66
9.2.1.3 Water Conservation Program Coordination and Staffing Support....66
9.2.1.4 Other Demand Management Measures....66
9.2.2 Wholesale Demand Management Measures....66

DRAFT

9.2.2.1 Asset Management 66
9.2.2.2 Supplier Assistance Programs 66

10.0 URBAN WATER MANAGEMENT PLAN ADOPTION, SUBMITTAL, AND IMPLEMENTATION 67
10.1 Plan Completion Timeline 67
10.2 Notice of Plan Preparation 67
10.3 Notice of Public Hearing 67
10.4 Public Hearing and Adoption 67
10.5 Plan Submittal 68
10.5.1 Submitting a UWMP and Water Shortage Contingency Plan to DWR 68
10.5.2 Electronic Data Submittal 68
10.5.3 Submitting a UWMP, Including WSCP, to the California State Library 68
10.5.4 Submitting a UWMP to Cities and Counties 68
10.7 Notification to Public Utilities Commission 68
10.8 Plan Implementation 68
10.9 Amending an Adopted Urban Water Management Plan or Water Shortage Contingency Plan 68
10.9.1 Amending a UWMP or WSCP 68
10.9.2 Submitting Revised Water Shortage Contingency Plan 68
10.10 Submittal Tables 69

DRAFT

LIST OF TABLES

TABLE 2-1 R	Retail: Public Water Systems
TABLE 2-2	Plan Identification
TABLE 2-3	Supplier Identification
TABLE 2-4 R	Retail: Water Supplier Information Exchange
TABLE 3-1 R	Retail: Population - Current and Projected
TABLE 4-1 R	Retail: Total Uses for Potable and Non-Potable Water - Actual
TABLE 4-2 R	Retail: Total Uses for Potable, and Non-Potable Water -Projected
TABLE 4-3 R	Retail: Inclusion in Water Use Projections
TABLE 4-4 R	Retail: Passive Water Savings Projection
TABLE 4-5 R	Retail: Water Loss Audit Reporting
TABLE 4-6	Retail: Progress Towards 2028 Water Loss Standard
TABLE 5-1 R	Retail: SB X7-7 2020 Target Progress
TABLE 6-1 R	Retail: Groundwater Volume Pumped
TABLE 6-2 R	Retail: Wastewater Collected Within Service Area
TABLE 6-3 R	Retail: Wastewater Treatment and Outcomes Within UWMP Service Area
TABLE 6-4 R	Retail: Recycled Water Direct Beneficial Uses Within Service Area
TABLE 6-5 R	Retail: 2020 UWMP Recycled Water Use Projection Compared to 2025 Actual
TABLE 6-6 R	Retail: Methods to Encourage Future Recycled Water Use
TABLE 6-7 R	Retail: Expected Future Water Supply Projects or Programs
TABLE 6-8 R	Retail: Water Supplies — Actual
TABLE 6-9 R	Retail: Water Supplies — Projected
TABLE 7-1 R	Retail: Basis of Water Year Data (Reliability Assessment)
TABLE 7-2 R	Retail: Normal Year Supply and Use Comparison

DRAFT

TABLE 7-3 R Retail: Single Dry Year Supply and Use Comparison

TABLE 7-4 R Retail: Multiple Dry Years Supply and Use Comparison

TABLE 7-5 R Retail: Five-Year Drought Risk Assessment

TABLE 8-1 R Cross-reference for Standard vs Supplier Shortage Levels

TABLE 8-2 R Retail: Supply Augmentation and Other Actions

TABLE 8-3 R Retail: Demand Reduction Actions

TABLE 10-1 R Retail: Notification to Cities and Counties

LIST OF FIGURES

FIGURE 1 Site Location Map - Crescent City & Service Districts

FIGURE 2 Site Location Map - Crescent City

FIGURE 3 Site Location Map - Pelican Bay State Prison

FIGURE 4 Site Location Map - Crescent City

FIGURE 5 Site Location Map - Pelican Bay State Prison

FIGURE 6 Smith River Plain Groundwater Basin

FIGURE 7 Geologic Map

FIGURE 8 Water Transmission System Schematic

LIST OF APPENDICES

APPENDIX A 2025 UWMP Checklist

APPENDIX B Notice of Preparation to Neighboring Municipalities

APPENDIX C Crescent City Water Shortage Contingency Plan, 2021

APPENDIX D Del Norte County Operational Area Hazard Mitigation Pla

APPENDIX E Crescent City Municipal Code Section 13.17

APPENDIX F Notice of Public Hearing from the Local Newspaper

APPENDIX G Crescent City Resolution 2026-__

DRAFT

1.0 URBAN WATER MANAGEMENT PLAN INTRODUCTION AND LAY DESCRIPTION

This Urban Water Management Plan (UWMP) has been prepared for the City of Crescent City in compliance with requirements of the California Department of Water Resources (DWR) pursuant to the Urban Water Management Planning Act (UWMP Act of 1983) and the Water Conservation Bill of 2009. Crescent City recognizes that water planning is an essential function of water suppliers that becomes critical as California grapples with ongoing drought and expected long-term climate changes.

The data used for preparing this report comes primarily from the City of Crescent City's operational records. Figures relating to watershed runoff were obtained from the United States Geological Survey. Population projections are based on US Census data and data obtained from the California Department of Finance. Regional groundwater elevation trends are based on data acquired from the California Statewide Groundwater Elevation Monitoring (CASGEM).

It should be noted that Crescent City is located in a high rainfall and moderate temperature.

1.1 Urban Water Management Planning Act of 1983

The UWMP Act requires water agencies to develop UWMPs. The UWMPs provide a framework for long-term water planning and informs the public of a supplier's plans for long-term resource planning that ensures adequate water supplies for existing and future demands. The California Water Code (CWC) requires urban water suppliers to report, describe, and evaluate;

- Water deliveries and uses;
- Water supply sources;
- Efficient water uses;
- Demand management measures; and
- Water shortage contingency planning.

A 2025 UWMP Checklist is included as Appendix A.

1.2 Water Conservation Act of 2009 (SB X7-7)

The Water Conservation Act of 2009 requires retail urban water suppliers to report the following in their UWMPs:

- Base Daily per Capita Water Use (Baseline GPCD);
- 2015 Interim Urban Water Use Target;
- 2020 Urban Water Use Target; and
- Compliance Daily per Capita Water Use.

1.3 Lay Description

The City of Crescent City's only water source is provided by Smith River underflow associated with the Smith River Plain Groundwater Basin. The Smith provides an abundant supply of high quality, fresh water.

This assessment included a review and evaluation of historic precipitation data, historic Smith River discharge (flow), and historic groundwater elevations in the Smith River Plain Groundwater Basin. Based on these assessments, the Crescent City water supply (Smith River underflow) has been reliable even during periods of record low precipitation.

DRAFT

Based on historic conditions, it is likely that the Crescent City water supply will be reliable during periods of low precipitation (single driest year and driest 5 years) into the future for the planning period (20 years).

DRAFT

2.0 URBAN WATER MANAGEMENT PLAN PREPARATION

This Section provides information on Crescent City's process for developing the 2025 UWMP, including efforts in coordination and outreach.

2.1 Basis for Preparing a Plan

> ***Requirement:*** *"Urban water supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers. This part applies only to water supplied from public water systems (CWC 10617).*

The City of Crescent City has more than 3,000 water connections (customers), and is an urban water supplier required to prepare and submit a UWMP under CWC 10617. Crescent City operates a Public Water System (PWS). During the preparation of this updated plan contact was made with the municipalities that the City of Crescent City supplies water to including;

- Del Norte County;
- Church Tree Community Services District;
- Bertsch Oceanview Community Services District; and
- Pelican Bay State Prison.

2.1.1 Suppliers With Both Wholesale and Retail Sales

The City of Crescent City is a retailer. Although the City sells water to other small agencies, the annual volume of sales is less than the threshold for being considered a wholesaler.

2.1.2 Public Water Systems

The City of Crescent City operates a single public water system (ID CA0810001).

2.2 Individual or Regional Plan

Crescent City is preparing an individual UWMP.

2.2.1 Regional Reporting

Although coordinating with other regional water agencies, the City is preparing an individual UWMP.

2.3 Fiscal or Calendar Year and Units of Measure

Crescent City is reporting water data on a calendar year basis. Water volume data will be reported in millions of gallons for the entire 2025 UWMP.

2.4 Coordination and Outreach

> ***Requirement:*** *An urban water supplier that relies upon a wholesale agency for a source of water shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years or as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over*

DRAFT

the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c). (CWC 10631).

2.4.1 Wholesale and Retail Coordination

Requirement: *Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable. (CWC 10620 (d)(2)).*

The City of Crescent City does not rely on a wholesale agency for a source of water and is not a wholesale provider of water.

2.4.2 Coordination with Other Agencies and the Community

Crescent City provided notice of preparation to Del Norte County, Church Tree Community Services District; Bertsch Oceanview Community Services District; and Pelican Bay State Prison. Agencies were invited to participate in the planning process to update the UWMP.

There are no other water suppliers that share a common source, and Crescent City does not rely on water wholesalers for any water supply

2.4.3 Notice to Cities and Counties

Requirement*: Every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days before the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. (CWC 10621 (b)).*

Crescent City provided notice of preparation to Del Norte County, Church Tree Community Services District; Bertsch Oceanview Community Services District; and Pelican Bay State Prison at least 60 days before the public hearing. These local agencies were invited to participate in the planning process to develop the 2025 UWMP, Appendix B.

DRAFT

2.5 Submittal Tables

Submittal Table 2-1 Retail: Public Water Systems			
Public Water System Number	Public Water System Name	Number of Municipal Connections 2025	Volume of Water Supplied 2025 (MG)
Add additional rows as needed			
CA0810001	City of Crescent City	4,581	829
	Total	4,581	829
DWR NOTES: **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.			
NOTES:			

Submittal Table 2-2: Plan Identification		
Select One	**Type of Plan**	**Name of Regional Alliance or RUWMP** (Drop Down List)
☑	**Individual UWMP**	
	If Water Supplier is also a member of a SB X7-7 Regional Alliance, select name from the drop-down.	
☐	**Regional Urban Water Management Plan (RUWMP)**	
	If Supplier selected RUWMP, select name from the drop-down.	
NOTES:		

Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
☐	Supplier is a wholesale supplier
☑	Supplier is a retail supplier
Fiscal or Calendar Year (select one)	
☑	UWMP Tables are in calendar years
☐	UWMP Tables are in fiscal years
If using fiscal years provide month and date that the fiscal year begins (mm/dd)	
Units of measure used in UWMP (Select from the drop down list).	
Unit	MG
DWR NOTES: **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Submittal Table 2-3.	
NOTES:	

DRAFT

3.0 SERVICE AREA DESCRIPTION

This Section includes a description of the Crescent City service area, climate, Public Water System, and City organizational structure and history.

3.1 General Description

***Requirement**: Describe the service area of the supplier. (CWC 10631 (b)).*

Crescent City is located on Highway 101 on the Northern California coast about 20 miles south of the Oregon border and is the only incorporated city in Del Norte County. Crescent City is approximately 1.4 square miles in size. Del Norte County is characterized by rugged mountains split by meandering streams and rivers that flow to the ocean. It has a rugged, "untamed" nature about it, with sequoia/redwood forests prevalent throughout the area.

Fishing, agriculture, tourism, timber and government are the primary economic activities of the area. The economic influence of the timber and fishing industries has been dwindling, and their future is uncertain. The Department of Corrections opened Pelican Bay State Prison north of Crescent City in December 1989 and it is estimated that when at 100% capacity, 4,000 inmates will be housed there with a staff of over 1,500. The area's largest employers are federal, state and local government agencies.

The City supplies water to three water districts as well as customers in the urban service area and within the City's jurisdictional area. The districts hire by contract the Crescent City crews and staff to maintain their system and to perform accounting. The districts are Meadowbrook, Church Tree Community Service District, and Bertsch Ocean View Community Service District.

The City of Crescent City's only water source is Smith River underflow associated with the Smith River Plain Groundwater Basin. The Smith River provides an abundant supply of high quality, fresh water. The drainage basin of the Smith River, which covers about 700 square miles, produces runoff of approximately 2.9 million Acre Feet per Year (AFY), (approximately 944,265 Million Gallons per Year (MGY) making it the highest water-producing drainage in California based on runoff per square mile.

Improvements to the City's water distribution and supply system began in May 2000 and were completed in August 2002. The improvements, described in more detail below, were aimed at increasing water supply transmission capacity to meet future system demands, eliminating low-pressure regions within the service area, and reducing operating costs. The capacity of the upgraded transmission and storage system is approximately 6,700 AFY (approximately 2,181 MGY). Under Water Resources Control Board water rights permits, (Crescent City and Department of Correction) the combined appropriation from the Smith River (underflow) is specified as an average of 12.8 cubic feet per second (cfs) (8.3 million gallons per day (MGD)) with a maximum annual diversion of 3,666 AFY (1,194 MGY).

Water is supplied to the City from the Smith River via a well-pointed
structure known and patented as a "Ranney Well." The Ranney Well, the Elevated Reservoir (a 50,000-gallon storage reservoir), and the transmission lines supplying the City's water system were constructed in 1958 (Figure 8). The well is located on the riverbank approximately 8.5 miles north of the City limits (Figures 6 and 7). The Ranney Well is capable of producing about 6,700 AFY (2,181 MGY). Water is pumped from the source to a chlorination facility off Kings Valley Road approximately one mile from the Smith River.

DRAFT

Chlorination (disinfection) is presently the only treatment the raw water requires. The chlorination building houses dual chlorinators, chemical storage area and an emergency power generator. In approximately 1989, the Department of Corrections, in addition to upgrading the pumps at the Ranney Well, also constructed an 18-inch transmission main parallel to the original 14-inch main, between the Ranney Well and Pelican Bay State Prison's 12-inch service lateral. Just south of and after the chlorination facility the lateral tees from the 18-inch and inter-connects by cross fitting to the 1958 14-inch transmission main, which continues to the 50,000-gallon Elevated Tank and pressure control facility near Highway 101 and Wonder Stump Road. The other section reduces to 12-inches and supplies the Pelican Bay State Prison. From the Ranney Well and through the chlorination facility, water is pumped to the 50,000-gallon Elevated Reservoir, an equalization-storage tank located some 14,750 feet from the Ranney Well.

Work on the Ranney Well pumps was done in 1989 and involved replacing two pumps and rebuilding the third. Each pump is capable of moving approximately 1,680 gallons per minute (gpm) at 235 feet of total dynamic head. Field pump flow indicated that the three pumps together produce between 6.0 and 6.2 MGD (2,190 to 2,263 MGY) which is in excess of the water rights permit maximum (1,194 MGY).

Variable Frequency Drives were added to the pumps in 2011. A new water system control and data acquisition (SCADA) system was installed and commissioned in 2020. From the Elevated Reservoir, water flows by gravity approximately two miles through a recently upgraded 24-inch water transmission main to the City's distribution system and storage reservoirs. The 12-inch and 24-inch transmission mains start at the Elevated Tank and run southwesterly along Wonder Stump Road. At the Wonder Stump Road-Elk Valley Cross Road intersection, the 24-inch main turns west on Elk Valley Cross Road and heads to Lake Earl Drive. The 12-inch main reduces to 10 inches and continues south along the railroad right of way. At the Lake Earl Drive intersection, the alignment heads south along Lake Earl Drive, which turns into Northcrest Drive. At the Northcrest Drive-Washington Street intersection, the pipe goes west one block and turns south at the Oregon Street intersection. At the Oregon Street-Washington Street intersection the 24-inch main interconnects with an existing 10-inch main. From this intersection the 24-inch main alignment heads south to the Oregon Street-Harding Street intersection, where it then goes one block west to California Street. The main then goes south on California Street to the Cemetery. The pipe enters Cooper Street at the cemetery access entrance and runs west along Cooper Street until Amador Street where it turns south to the 1.5 million gallon tank. At the Amador St. Reservoir the 24-inch main reduces to two 16-inch supply lines: one heads west in Macken Avenue to Joaquin Street and then south to Pacific Avenue where it connects to the distribution grid on the west side of the system. The other supply line goes south along Butte Street, from the Macken-Butte intersection, turning east at Pacific for one block and heading south on G Street, interconnecting to the existing distribution grid at 9th Street and G Street.

The first Washington Blvd. storage reservoir and pumping facility was constructed in 1963 but was replaced in 2001 with a 4-million-gallon reservoir. The upgrade equalizes supply and demand, provides sufficient supply for fire protection, and furnishes supply during periods of maintenance and repair. The station's two pumps were replaced with three 75 horsepower (HP) pumps, and a new auxiliary power system was also installed. The pumps maintain adequate pressures within the distribution system. The Washington Boulevard pump station and Amador pump station are all controlled by SCADA with operator-adjustable setpoints. The Amador pumping facility was originally installed in 1982 to increase the volume of storage in Crescent City and to improve pressures, flows and fire demands within the distribution

DRAFT

system. Three identical 75 HP pumps are provided to deliver flow volumes to the distribution system, in conjunction with the Washington Boulevard pumping system. Auxiliary power is provided for this station by a 300 kW Onan generator. The Amador Street Reservoir is a welded steel reservoir built in 1982 to increase the City's storage. It has a total capacity of 1.5 million gallons but is operated at an effective capacity of 1.0 million gallons. Amador is currently undergoing a multi-year two-phase renovation of which Phase-I (safety improvements) is complete. Between 2000 and 2002, approximately 4,600 linear feet of distribution lines were added with 16-inch high-pressure distribution piping. The City produces all its own water and sells it to other water agencies. These are the districts of Meadowbrook, Churchtree, and Bertsch Oceanview. Production from the Smith River between 2021 and 2025 is 739 to 829 MGY, well below the permitted amount of 1,194 MGY.

Year	Water Production (Smith River)
2021	805.32
2022	739.56
2023	780.05
2024	788.95
2025	829.44

A map of the Crescent City water distribution area is included as Figures 1 through 5.

Crescent City supplies water to 4,581 active connections (2025). Approximately 3,987 residential connections, 579 connections are commercial, 15 are industrial connections, and Pelican Bay State Prison.

In 2025 a total of 829.44 million gallons of water was distributed to the City's customer base.

3.2 Service Area Boundary Maps

The Crescent City service area boundary is shown in Figures 1 and 2.

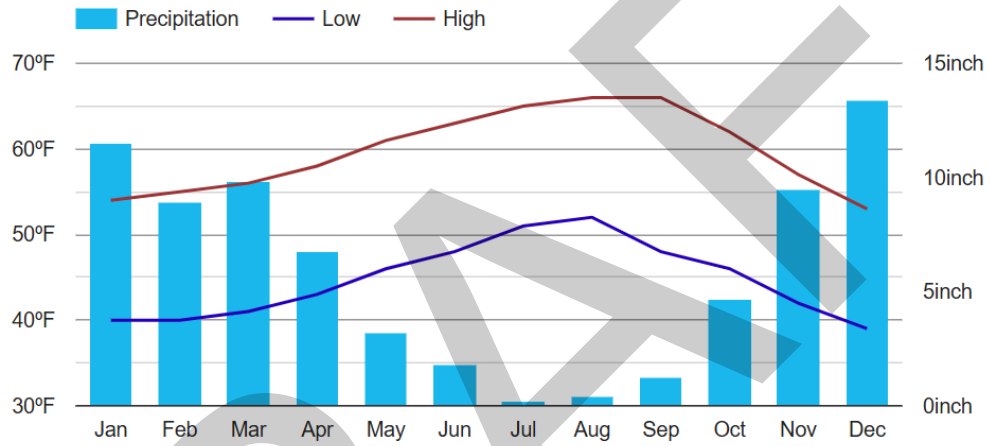
3.3 Service Area Climate

***Requirement**: Describe the service area of the supplier, including… climate…. (CWC 10631 (b)).*

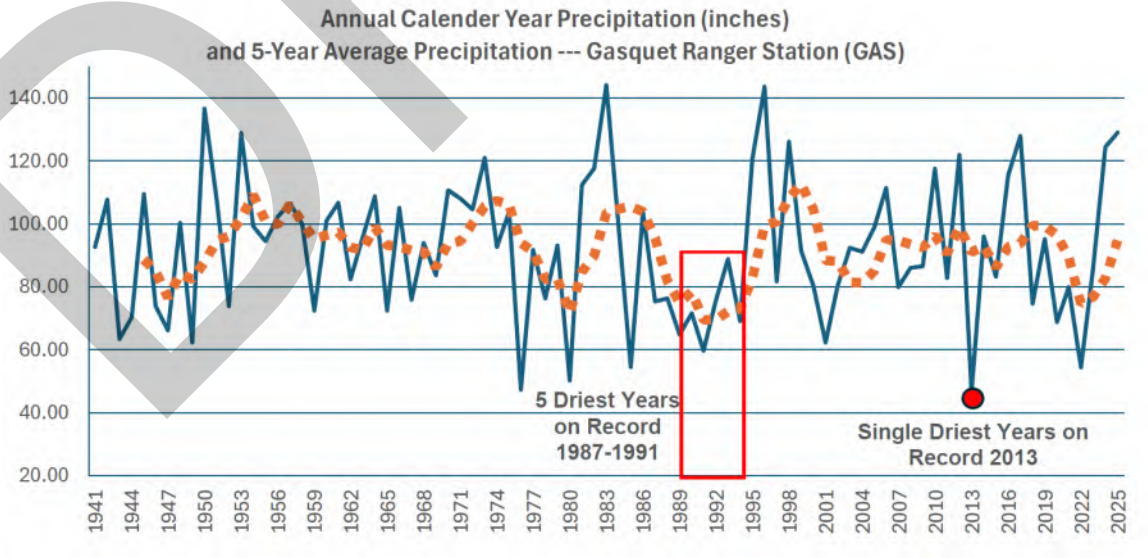
According to: http://www.usclimatedata.com/climate/crescent-city/california/united-states/usca1878a the average temperatures and precipitation for Crescent City are shown in the table and graph below:

DRAFT

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Ave. high in °F:	54	55	56	58	61	63	65	66	66	62	57	53	
Ave. low in °F:	40	40	41	43	46	48	51	52	48	46	42	39	
Ave. precipitation in inch:	11.51	8.96	9.84	6.76	3.23	1.78	0.19	0.42	1.26	4.67	9.46	13.37	71



Gasquet, California is inland from Crescent City but is representative of the precipitation received within the Smith River drainage area. Annual precipitation and 5-year average precipitation trends are shown in the chart below.



DRAFT

3.4 Service Area Population and Demographics

***Requirement**: Describe the service area of the supplier, including current and projected population The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available . (CWC 10631).*

3.4.1 Service Area Population

Based on the GIS analysis of 2000 US Census Bureau data at the block level, the population of the Crescent City water service area was determined to be 3.53 persons per total connections. Current (2025) population figures for the City of Crescent City service area are based on 3.53 persons per total water connections. Population projections (2025-2050) are based on the California Department of Finance projected population growth rates as shown below:

Year Range	Projected Population Growth Rate
2025 to 2030	-3%
2030 to 2035	-1%
2035 to 2040	-1%
2040 to 2045	-1%

3.5 Other Demographic Factors

***Requirement**: Describe the service area of the supplier, including. . . other demographic factors affecting the supplier's water management planning. (CWC 10631).*

The Crescent City service area is primarily urban residential in nature. The table below shows the percentage of residential, commercial institutional, and industrial connections, and the percentage by volume sold.

	Connections	Percent by Connections	Volume MG	Percent by Volume
Residential	3987	87%	229.3	43%
Commercial Institutional	579	13%	298.7	56%
Industrial	15	0.3%	1.2	0.22%
Total	4,581		529.5	

3.5.1 Other Social, Economic, and Demographic Factors

***Requirement**: Describe the service area of the supplier, including. . . other demographic factors affecting the supplier's water management planning. (CWC 10631).*

According to US Census data other social, economic, and demographic factors include:

DRAFT

	Crescent City	Del Norte County	California
Median household income	$35,540	$67,058	$100,149
Per capita income past 12-months	$17,501	$31,028	$36,955
Percent of persons in poverty	17.2%	19.9%	11.8%

According to California Code of Regulations Title 22, section 64300, a disadvantaged community (DAC) water system is a community with a median annual household income (MAHI) less than eighty percent (80%) of the statewide MAHI. Since Crescent City's MAHI is only 35% of the state MAHI, Crescent City meets the definition of a DAC.

3.6 Land Use within Service Area

Del Norte County Community Development will be contacted regarding any large planned residential developments, buildouts, or additions to the water system anticipated, or being discussed in the next 20 years. Del Norte County Community Development indicated that there were no large developments or additions planned that would impact the Crescent City Water system.

3.7 Submittal Tables

Submittal Table 3-1 Retail: Population - Current and Projected
Water Code Section 10631(a)

Population Served	2025	2030	2035	2040	2045	2050(opt)
	17,871	17,415	17,265	17,148	16,983	

NOTES: Urban Population 3.53 persons / total water connections, per 2020 UWMP based on census data/connections. Plus 1,700 Pelican Bay Prison population adjusted down from previous UWMP estimate of 4,000. Population projections (2025-2050) are based on the California Department of Finance projected population growth rates.

DRAFT

4.0 WATER USE CHARACTERIZATION

This Section describes and quantifies the current, and projected water uses within the City's service area.

4.1 Non-Potable Versus Potable Water Use

All of Crescent City water demand is met with potable water. Crescent City provides wastewater collection services in their service area. Wastewater collected within the City service area is treated at the Crescent City Wastewater Treatment Facility. Recycled wastewater is not currently being used in the Crescent City service area. Crescent City does not distribute recycled water, raw water, or any other non-potable water.

4.2 Past, Current, and Projected Water Use by Sector

This section will quantify past, current, and projected water uses, to the extent records are available.

> ***Requirement:*** *For an urban retail water supplier, quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, based upon information developed pursuant to subdivision (a), identifying the uses among water use sectors, including, but not necessarily limited to, all of the following:*
>
> - *(A) Single-family residential*
> - *(B) Multifamily.*
> - *(C)Commercial.*
> - *(D) Industrial.*
> - *(E) Institutional and governmental.*
> - *(F) Landscape.*
> - *(G) Sales to other agencies.*
> - *(H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.*
> - *(I) Agricultural.*
> - *(I) Distribution system water loss (CWC 10631 (d)*

The City of Crescent City utilizes the following use sectors:

- Single Family Residential;
- Commercial / Institutional (includes multi-family residential);
- Industrial; and
- A single Prison Connection.

The City does not have any water use sectors in addition to those listed in the Water Code.

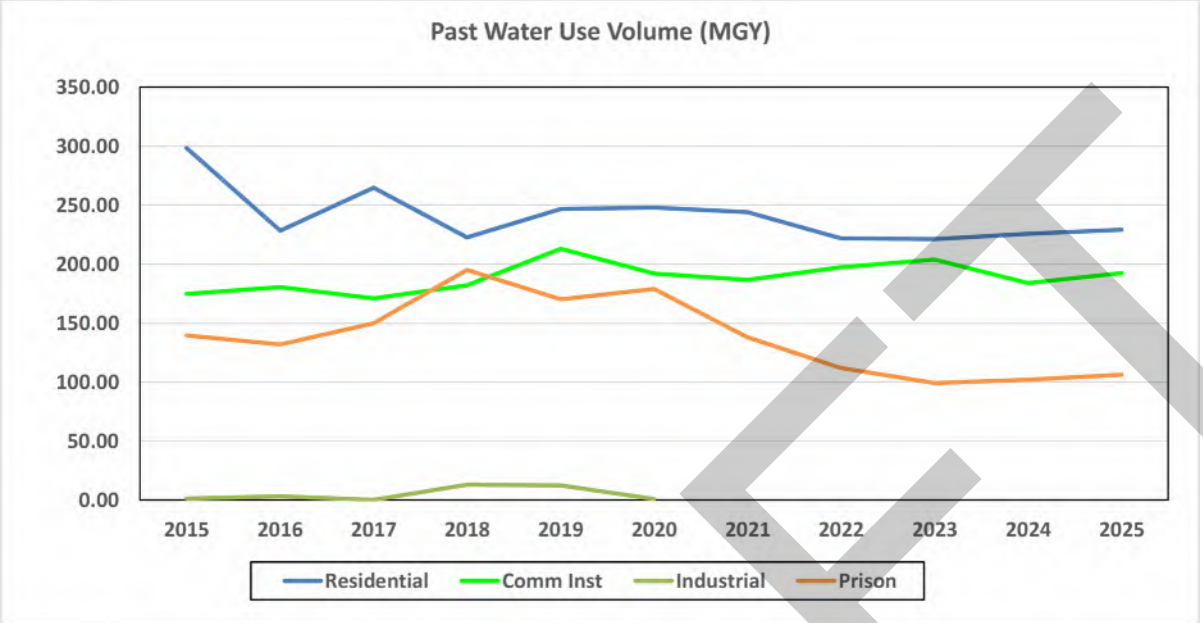
4.2.1 Optional Water-Use Sectors in Addition to Those Listed in Water Code

The City does not have any water use sectors in addition to those listed in the Water Code.

4.2.2 Past Water Use

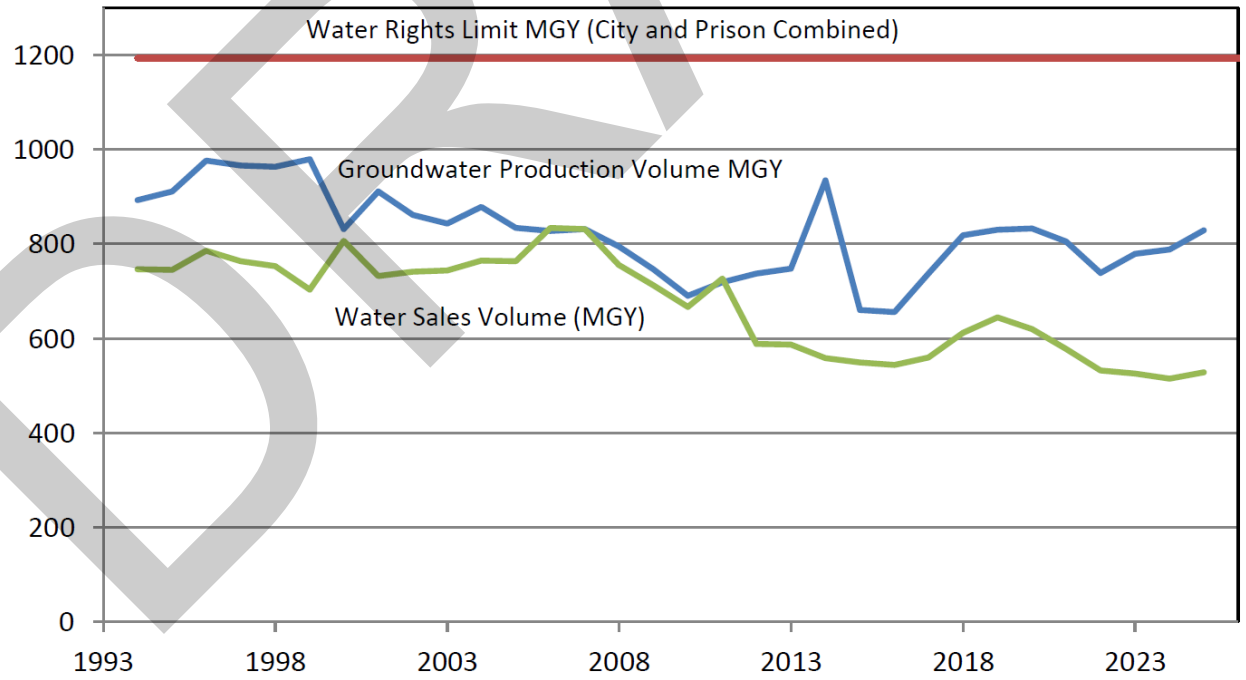
Water use volume by use sector for the past 10-years is shown in the chart below:

DRAFT



The chart above shows a steady increase in commercial/Institutional demand over the past 10 years. Residential water demand decreased from 2015-2018 and levelled off from 2018 to 2025. Prison consumption decreased significantly in the past 5 years.

The chart below shows a steady decrease in groundwater production and total sales in the past 30 years.



DRAFT

4.2.3 Current Water Use

2025 retail demand for potable and raw water by use type is included in Table 4-1. The 2025 water use volume and connection count by sector are shown in the tables below:

	Connections	% of Total Connections
Res Connections	3987	87%
Comm / Inst Connections	579	13%
Industrial Connections	15	0.33%
Total	4581	

	MGY	% of Total Volume Sold
Res Volume Sold	229	54%
Comm / Inst Volume Sold	192	45%
Industrial Volume Sols	1	0%
Total	423	

4.2.4 Projected Water Use

Demand projections by use sector (Table 4-2, 4-3) were estimated over the planning horizon using the following methods:

	Method for Volume Projections
Residential	Water projections (2025-2050) are based on the California Department of Finance projected population growth rates.
Commercial Institutional	Water projections (2025-2050) are based on the California Department of Finance projected population growth rates.
Industrial	Water projections (2025-2050) are based on the California Department of Finance projected population growth rates.
Prison	Water projections (2025-2050) are based on the California Department of Finance projected population growth rates.
Distribution System Loss	Water loss projections (2025-2050) are based on the water loss rate for 2025

4.2.5 Lower-Income Households

Low-income and very low-income households have an income less than 80% of the median household income. According to the Crescent City Housing Element, 2023, 27% of the households are classified as low, very low-income, and extremely low-income. Water use projections include projected water use for single-family and multifamily residential housing needed for lower income households.

DRAFT

4.2.6 Climate Change Considerations

Climate change was recently evaluated in a report titled "***Crescent City Climate Change Readiness Study***" prepared by Kennedy Jenks (Kennedy Jenks, March 29, 2021).

Based on the results of the climate risk evaluation calculations (Kennedy Jenks, March 29, 2021) the City is most at risk for:

- Increases in annual average precipitation;
- Flooding;
- Storm surge due to climate change; and
- Extreme precipitation events.

Climate change was evaluated and considered. The impacts of climate change on water demand would primarily be the result of gains or losses in population. There may be a shifting, or loss of population as a result of the immediate effects of climate change. Coastal population (demand) could increase as "climate refugees" seek more livable locations along the coast (cooler, less fire risk, water supply).

The water supply, and water infrastructure, could be impacted by several of the risks, or combination of risks, listed above.

4.3 Distribution System Water Loss

Requirement*: Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors, including, but not necessarily limited to, all of the following uses: (CWC 10631 (e)(1)) Distribution system water loss.*

4.3.1 Previous Five Years Distribution System Losses

Crescent City has been utilizing the American Water Works Association (AWWA) water loss methodology annually since 2013 to evaluate distribution system losses. Crescent City AWWA water loss audit for the calendar year 2025 is not due until January 1, 2027, and has not been performed yet. The result of the 2024 AWWA water loss audit indicates a real water loss of 148.03 million gallons, or 22% real loss. (Table 4-4).

	Production MG	Real Loss Gallons / Connection Per Day	Apparent Loss / Connection Per Day
2020	833	70	17
2021	805	101.8	12.63
2022	740	90	15
2023	760	112	15
2024	789	108	14
Ave.	785	96	15

DRAFT

4.3.2 Progress Toward Meeting the Water Loss Performance Standard

Pursuant to Water Code Section 10631(d)(3)(C), retail suppliers are required to provide data demonstrating whether the retail supplier met its State Water Board Water Loss Performance Standard in 23 CCR Section 980 et seq. for each applicable PWS.

2028 Real Water Loss Standard per Service Connection per day	Real Loss Gallons Per Service Connection per Day (2024 Water Loss Audit)
23	**108**

2028 Apparent Water Loss Standard per Service Connections per Day	Apparent Water Loss Gallons Per Unit per Day (2024 Water Loss Audit)
14.4	**14**

Suppliers serving economically Disadvantaged Communities (DACs) with smaller benefit-to-cost ratios for their water loss standard, as identified through the economic model, will have until 2031 to achieve their standard. The Crescent City is a DAC.

Crescent City needs to reduce real loss by 85 gallons per service connection per day by 2031. Crescent City has met their apparent loss standard 11.25 gallons per service connection per day.

By adjusting the 2024 connection count to include Pelican Bays 1,700 “equivalent connections”, the resulting real loss is reduced to 74 gallons / connection / day and apparent loss would be 9.9 gallons / connection / day.

DRAFT

4.4 Submittal Tables

Submittal Table 4-1 Retail: Total Uses for Potable and Non-Potable Water — Actual
Water Code Section 10631(d)(1)

Use Type	Additional Description (as needed)	2025 Actual Water Use	
Drop down list May select each use multiple times These are the only use types that will be recognized by the WUEdata online submittal tool		**Potable or Non-Potable** (OPTIONAL) Drop down list	Volume (MG)
Add additional rows as needed			
Single Family		Potable	229
Commercial	Includes Multi-Fam Res and Institutional	Potable	299
Industrial		Potable	1
Distribution System Water Loss		Potable	300
		Subtotal Potable	829.417
		Subtotal Non-Potable	0
		Total	829

DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.

Submittal Table 4-2 Retail: Total Uses for Potable, and Non-Potable Water — Projected
Water Code Section 10631(d)(1)

Use Type	Additional Description (as needed)	Projected Water Use (Report To the Extent that Records are Available)					
Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool		**Potable or Non-Potable** (OPTIONAL) Drop down list	**2030 (MG)**	**2035 (MG)**	**2040 (MG)**	**2045 (MG)**	**2050 opt (MG)**
Add additional rows as needed.							
Single Family		Potable	222.40	220.17	217.97	215.79	
Commercial	Includes Multi-Fam Res and Institutional	Potable	289.70	286.80	283.93	281.10	
Industrial		Potable	1.14	1.13	1.12	1.11	
Distribution System Water Loss	Estimated at 2025 loss 36%	Potable	291	288	286	283	
		Subtotal Potable	805	797	789	781	0
		Subtotal Non-Potable	0	0	0	0	0
		Total	805	797	789	781	0

DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.

Estimated 25% Loss.

DRAFT

Submittal Table 4-3 Retail: Inclusion in Water Use Projections Water Code Section 10631 (a), 10631 (d)(4)(A), and 10631 (d)(4)(B)	
Are Future Water Savings Included in Projections? **Drop down list (y/n)**	No
If "Yes" to above, **state the section or page number**, in the cell to the right, where citations of the codes, ordinances, or otherwise are utilized in demand projections are found. ***Optional*** Suppliers may complete Optional Submittal Table 4-4 R to quantify the expected savings.	
Are Lower Income Residential Demands Included In Projections? **Drop down list (y/n)**	Yes
Optional If the method for accounting Lower Income Residential Demands has been included, provide page number where this accounting can be found.	
DWR NOTES: Additional guidance is provided in Appendix K.	
NOTES:	

Optional **Submittal Table 4-4 Retail: Passive Water Savings Projections** **Water Code Section 10631(d)(4)(A)**					
Description (Codes, Standards, Ordinances, or Plans)	Passive savings				
	2030 (MG)	**2035 (MG)**	**2040 (MG)**	**2045 (MG)**	**2050 opt (MG)**
Add additional rows as needed					
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.					
NOTES:					

DRAFT

Submittal Table 4-5 Retail: Water Loss Audit Reporting Water Code Section 10631(d)(3)(A)		
Public Water System ID # Reported in Table 2-1 R	Reporting Period	Submitted to DWR Water Loss Audit Program (yes/no)
Report submittal status for all five years for each Public Water System as available. Add rows as needed		
	2020	Yes
	2021	Yes
	2022	Yes
	2023	Yes
	2024	Yes
DWR NOTES: Suppliers will provide a link to the WUEdata submittals of their Water Loss Audit Reports.		
NOTES: Crescent Citys water loss audits can be accessed at: https://wuedata.water.ca.gov/secure/Default.asp?		

Submittal Table 4-6 Retail: Progress Towards 2028 Water Loss Standard
Water Code Section 10631(d)(3)(C)

Public Water System ID # Reported in Submittal Table 2-1 R	Did the Water Board Calculate a Water Loss Standard for this Public Water System? (y/n) If no, Supplier will not complete this row.	Real Water Loss					Apparent Water Loss				
		State Water Board Standard		Most Recent AWWA Water Loss Audit			State Water Board Standard		Most Recent AWWA Water Loss Audit		
		2028 Real Water Loss Standard per Unit per day	Units for Real Water Loss (Drop down list)	Number of Units (Connections or Miles corresponding with units selected)	Volume of Total Real Loss (from AWWA Water Loss Audit) (MG)	Real Water Loss Per Unit per Day	2028 Apparent Water Loss Standard per Unit per Day	Units for Apparent Water Loss	Number of Connections	Volume of Total Apparent Loss (from AWWA Water Loss Audit) (MG)	Apparent Water Loss Per Unit per Day
Add additional rows as needed.											
CA0810001	Yes	23	Gallons per Service Connection per Day (GPSCD)	3757	148	107.9	14.4	Gallons per Service Connection per Day (GPSCD)	3757	20	14.6
								Gallons per Service Connection per Day (GPSCD)			
								Gallons per Service Connection per Day (GPSCD)			

Water Board's Calculated Water Loss Standards

DWR NOTES: Units of measure (AF, CCF, MG) for Water Loss **MUST** remain consistent with units reported in Submittal Table 2-3. The units reported in Submittal Table 2-3 are used in this table's calculations.

NOTES:

DRAFT

5.0 SB X7-7 BASELINES, 2020 TARGETS, AND 2025 REPORTING

Suppliers that only met the definition of an urban retail water supplier (as defined in Water Code Section 10608.12) after 2020 were not subject to SB X7-7 or UWMP requirements during the 2020 reporting cycle.

5.1 Reporting Requirements for Wholesale Suppliers

This section does not apply to Crescent City since they are a retail water supplier.

5.2 Reporting Requirements for Retail Suppliers

This section applies to retail service water agencies only.

5.2.1 Supplier was Not an Urban Retail Water Supplier in 2020

This section does not apply to the Crescent City since they were an urban retail water supplier in 2020.

5.2.2 Supplier Met 2020 Target in 2020

Crescent City's 2020 GPCD target was 116 GPCD. Crescent City's 2020 GPCD was actually 112 GPCD. Crescent City has achieved compliance with daily per-capita water use for 2020. Crescent City met their 2020 target in 2020 as reported in their 2020 UWMP.

5.2.3 Supplier Did Not Meet 2020 Target in 2020—No Change to Service Area

This section does not apply to the Crescent City since they met their 2020 target in 2020 as reported in their 2020 UWMP.

5.2.4 Supplier Did Not Meet 2020 Target—Change to Service Area Since 2020

This section does not apply to Crescent City since they met their 2020 target in 2020 as reported in their 2020 UWMP.

5.2.5 Types of Changes to Service Area Since 2020

This section does not apply to Crescent City, since it has not merged with another water system, or acquired a portion of another's service area between 2020 and 2025.

5.2.6 Funding Eligibility

Since the Crescent City achieved its 2020 Target, Crescent City is eligible to receive a water grant or loan from the State of California.

DRAFT

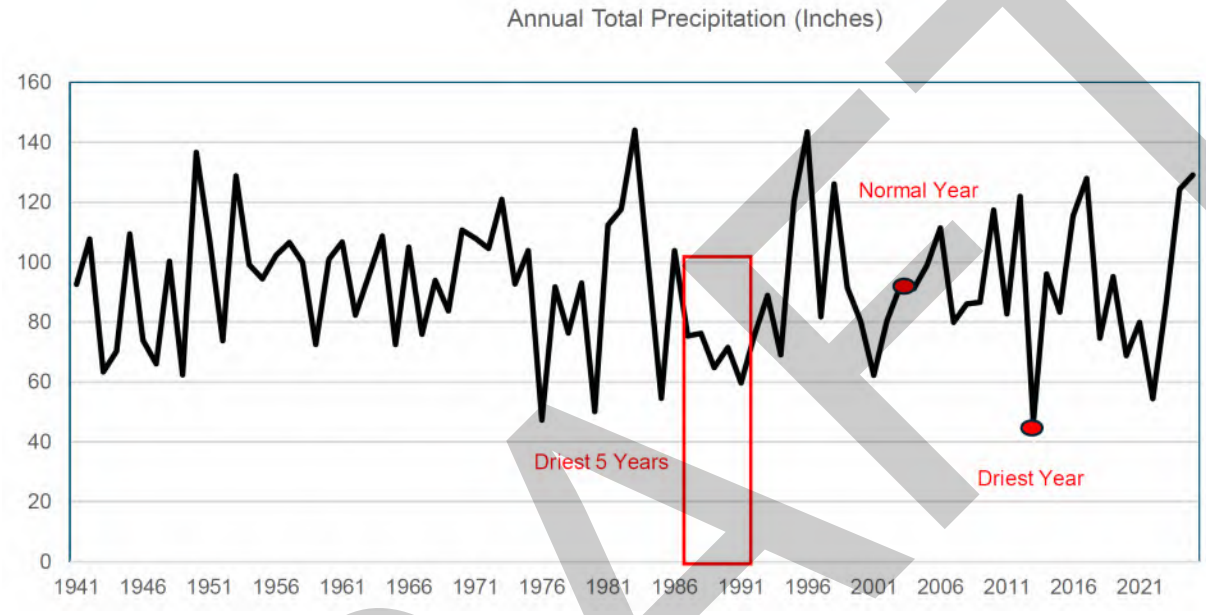
5.3 Submittal Tables

Submittal Table 5-1 Retail: SB X7-7 2020 Target Progress Water Code Section 10608.40						
☐	Check the box if the Supplier was not an Urban Water Supplier during or before the 2020 UWMP reporting cycle. Proceed to the next table.					
Was Supplier part of a merger or consolidation since 2020?	Regional Alliance Target or Individual Target? Drop down list	2020 Target	Actual 2020 GPCD	Did Supplier Achieve Targeted Reduction for 2020?	Only for suppliers that did not meet the Target in 2020 See DWR NOTES below.	
					Actual 2025 GPCD (From SB X7-7 Compliance Form)	Did Supplier meet the 2020 Target in 2025?
No	Individual Target	116	112	Yes		NA
DWR NOTES: **Suppliers calculating a 2025 GPCD** will need to complete and submit SB X 7-7 Compliance Tables to verify the use of SB X7-7 Methodologies. **Suppliers that were part of a merger or consolidation since 2020** see Chapter 5 and Appendix P for guidance. NA=Not Applicable						
NOTES:						

DRAFT

6.0 NORMAL-YEAR WATER SUPPLY CHARACTERIZATION

Crescent City relies on a single water source, the Smith River (underflow). Crescent City performed an analysis of annual precipitation totals from the nearest weather station located within the Smith River watershed, with a continuous historical record 1941-2026, (Gasquet, California). Below is a graph showing the normal year, annual total precipitation (inches), single driest year, and driest 5-year period.

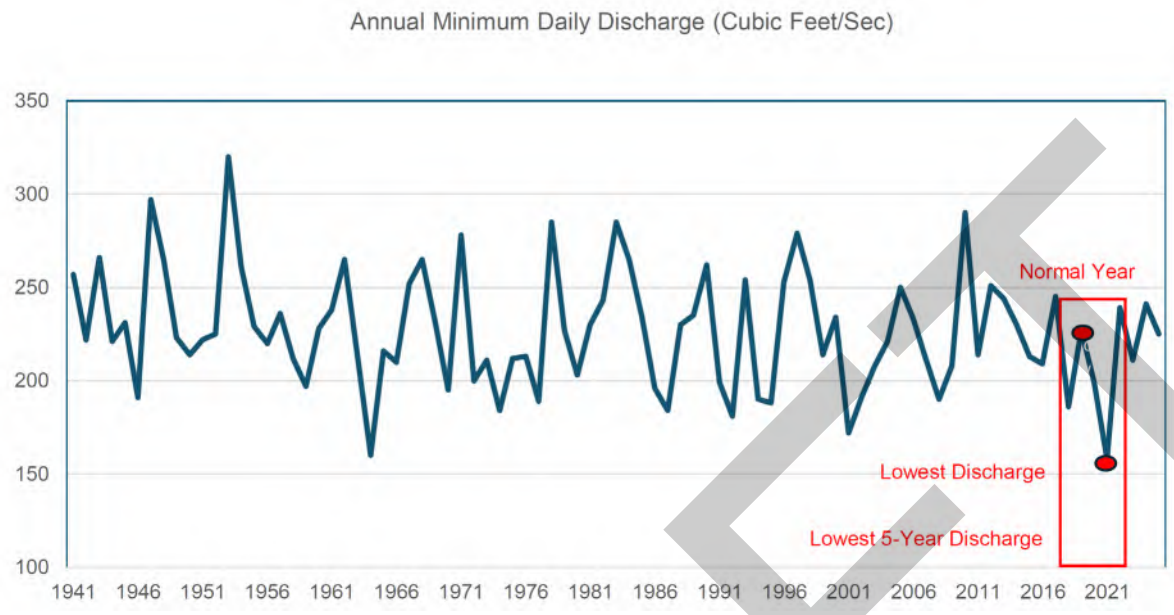


A summary of the analysis is provided in the table below:

Type of Year(s)	Year(s)	Gasquet Annual Total Precipitation (inches)	% Normal
Normal Year	2003	92	100%
Single Driest Year	2013	46	50%
Driest Five Years	1987-1991	65.7	76%

The chart below shows annual minimum daily discharge of the Smith River, normal minimum daily discharge of the Smith River, and the lowest 5-year minimum annual discharge.

DRAFT



Type of Year(s)	Year(s)	Smith River Minimum Annual Daily Discharge (cfs)	% Normal	MGY
Normal Year Annual Minimum Daily Discharge	2019	227	100%	53,655
Lowest Annual Minimum Daily Discharge	2021	158	70%	37,230
Normal 5-Year Average Minimum Daily Discharge	2010	226	100%	53,290
Lowest Five Year Average Minimum Daily Discharge	2018-2022	201	87%	47,450

6.1 Water Supply Analysis Overview

This Section describes and quantifies the current and projected sources of water available to the agency including supplies from other agencies, surface water, groundwater, recycled water, desalinated water, transfers and exchanges, and any other source water the supplier considers part of its supply portfolio.

The City of Crescent City's only existing water source is provided by groundwater from the Smith River underflow associated with the Smith River Plain Groundwater Basin. The Smith River provides an abundant supply of high-quality fresh water. The drainage basin of the Smith River, which covers about 700 square miles, produces runoff of approximately 2.9 million AFY (approximately 944,265 MGY), making it the highest water-producing drainage in California based on runoff per square mile. In the planning period there are no plans to acquire water from any wholesalers or other sources.

DRAFT

The City of Crescent City currently extracts water from the Smith River (underflow) under the City of Crescent City Water Resources Control Board water rights permit # 11475, and under the California Department of Corrections (CDC) Water Resources Control Board water rights permit # 20210 for Pelican Bay State Prison. Both permits have the same point of diversion. The place of use for the CDC permit appears to be contained within the place of use for the City of Crescent City Permit. A summary of the permit limits for pumping rate and total annual production is included in the table below.

Maximum Permitted Pumping Rate			
Entity	**Permit Number**	**Cubic Feet per Second**	**Million Gallons /Day**
City of Crescent City	11475	9.8	6.3
State Department of Corrections	20210	3	1.9
Total		**12.80 cubic feet per second**	**8.2 MGD (2,993 MGY)**

Maximum Permitted Annual Production			
Entity	**Permit Number**	**Acre Feet / Year**	**Million Gallons /Year**
City of Crescent City	11475	2,600	847
State Department of Corrections	20210	1,066	347
Total		**3,666**	**1,194**

Currently the City of Crescent City has water rights to divert a combined maximum 8.2 MGD and maximum 1,194 MGY from the Smith River.

6.1.1 Specific Analysis Applicable to All Water Supply Sources

Crescent City has a single source of drinking water, the Smith River. The specific analysis conducted to verify water supply to meet demand during a normal year, single driest year, and 5 driest years is presented in Section 7 of this UWMP.

6.1.2 Special Considerations

Within the planning period, regulatory changes, including re-evaluation of water rights is not anticipated.

6.1.3 Climate Change Effects

Based on the results of the climate risk evaluation calculations (Kennedy Jenks, March 29, 2021) the City is most at risk for increases in precipitation, flooding, and storm surge due to climate change. Extreme precipitation events, increases in annual average precipitation, and more intense storm surge increases in precipitation, flooding, and storm surge are due to climate change.

DRAFT

Climate change was evaluated and considered. The impacts of climate change on water demand would primarily be driven by gains or losses in population. There may be a shifting, or loss of population as a result of the immediate effects of climate change. Coastal population could increase as “climate refugees” seek more livable locations along the coast (cooler, less fire risk, abundant water supply).

The water supply, and water infrastructure, could be impacted by several of the risks, or combination of risks, listed above.

6.1.4 Regulatory Conditions and Project Development

There are no foreseeable regulatory conditions that would impact the availability of water used by Crescent City. The only project at this time is the evaluation of a potential groundwater well on a property owned by the City, between the Ranney Well and City limits.

6.1.5 Other Locally Applicable Criteria

There are no other locally applicable criteria related to water supply during a normal year.

6.1.6 Wholesale and Retail Suppliers Coordination

Crescent City is a water retailer. There are no water wholesalers in the region.

6.2 Water Supply Characterization

The following section describes the Crescent City’s water Supply.

6.2.1 Purchased or Imported Water

The City of Crescent City does not purchase or import water. Within the planning horizon there is no intent to utilize purchased or imported water.

6.2.2 Ground Water

The City of Crescent City's only water source is provided by groundwater from the Smith River Plain Groundwater Basin. The Smith River provides an abundant supply of high-quality fresh water. The drainage basin of the Smith River, which covers approximately 700 square miles, produces runoff of approximately 2.9 million AFY (approximately 944,265 MGY), making it the highest water-producing drainage in California based on runoff per square mile.

Crescent City’s drinking water is acquired from groundwater (underflow). Water is supplied to the City from the Smith River Plain Groundwater Basin via a well point type structure known and patented as a "Ranney Well." Groundwater is being produced from the Smith River Plain Groundwater Basin (Figure 6). The geology of the Smith River Plain Groundwater Basin is shown on Figure 7. The general location of the Crescent City Ranney Well is shown on Figures 5 and 6.

The following sections describing the Smith River Plain Groundwater Basin are from California's Groundwater Bulletin 118, 2003 update, (State of California, Department of Water Resources, 2003).

DRAFT

6.2.2.1 Basin Description

The Smith River Plain Groundwater Basin is located in Del Norte County in the extreme northwest corner of California. The plain is irregular in shape narrowing to the south against the steep scarp of the faulted mountain headland. The major structural feature in the basin is the inferred Del Norte fault which constitutes the basin boundary to the north and east (USBR 1960). The north end of the plain narrows at the mouth of the Smith River to a marine terrace less than one mile wide that continues into Oregon (DWR 1987). The basin is bounded to the north, east, and south by Mesozoic Franciscan Formation (Strand 1963).

The Smith River crosses the northern portion of the plain near the Town of Smith River and is the major watercourse responsible for most of the floodplain deposits in the area. Lake Earl and Talawa are shallow brackish lakes in the west central part of the plain and form collection basins for runoff from several minor streams (Back 1957). Annual precipitation in the basin ranges from 65- to 77-inches, increasing to the northeast.

Hydrogeologic Information

The Smith River Plain Groundwater Basin is an emerged low-relief marine terrace. The surface of the plain is comprised of sand dunes, floodplain deposits, unconsolidated river terrace deposits, and surface exposures of the marine Battery Formation. Underlying the terrace deposits are the marine Battery Formation and the St. George Formation. Beneath the St. George Formation is basement rock of the Jurassic-Cretaceous Franciscan Complex.

Water-Bearing Formations

Quaternary alluvial fan, flood-plain, terrace, and Battery Formation deposits from the primary water-bearing formations in the basin. The St. George Formation and basement rock of the Franciscan formation yield very little water to wells.

Holocene Floodplain Deposits. *Floodplain deposits underlie the present floodplain of the Smith River and its tributaries. These deposits rest on either basement rock or the Battery Formation and overlie river terrace deposits along the edge of the floodplain. The overlying deposits consist of unconsolidated clay, sand, and gravel and range in thickness from about 40-to 95-feet. The deposits are commonly covered with a shallow, silty soil 2- to 3-feet in thickness. The sands and gravels are well-rounded and poorly sorted. Boulders and cobbles are common where the Smith River flows out of the mountains. As the floodplain spreads west over the plain, the alluvial deposits generally become finer (DWR 1987). The deposits contain large amounts of unconfined water and are the most productive aquifers in the Smith River Plain Groundwater Basin. Most of the irrigation wells in the area obtain water from this zone. Yields to wells range from about 200- to 800-gpm and permeabilities range from about 6,000- to 10,000-gpd per square foot (DWR 1987).*

Pleistocene Terrace Deposits. *The Pleistocene age terrace deposits are associated with Smith River and Rowdy Creek and serve as the major aquifer in the northern part of the basin and also provide recharge to adjacent*

DRAFT

formations. These deposits contain poorly-sorted silt, sand, and gravel and include some clay - predominantly in the upper portion. Generally, these deposits become coarser with depth and large boulders are often encountered at the base. Thickness of the deposits generally range from about 30- to 55-feet, but may exceed 75 feet in the area south of the community of Smith River (DWR 1987). These deposits are underlain by basement rocks, but locally they may rest on the Battery or St. George Formations. The river terrace deposits are moderate to highly permeable, with permeabilities ranging from 1,000- to 2,000-gpd per square foot (DWR 1987). Generally, well yields are not high due to the limited saturated thickness. Several irrigation wells in the Fort Dick and Rowdy Creek areas yield 140- to 400- gpm. Some of the smaller terraces may not have enough storage-carryover capabilities to provide adequate water supplies throughout the summer and fall months because of limited areal extents.

***Groundwater Storage Capacity**. Storage capacity in the basin is estimated to be 99,350 acre-feet based a surface area of 31,070 acres, a depth interval of 10- to 35-feet below ground surface, and an average specific yield of 12.8 percent (Back 1957)..*

Groundwater Budget (Type B)
Estimates of groundwater extraction are based on a survey conducted by the California Department of Water Resources in 1996. The survey included land use and sources of water. Estimates of groundwater extraction for agricultural and municipal/industrial uses are 12,000 and 990 acre-feet respectively. Deep percolation from applied water is estimated to be 3,100 acre-feet.

***Characterization.** Groundwater in the basin consists of magnesium bicarbonate and magnesium-sodium bicarbonate type waters. Increasing proportions of sodium and chloride are found in waters from the southern half of the basin (Back 1957). Total dissolved solids (TDS) range from 50-to 500-mg/L, averaging 100 mg/L (DWR unpublished data).*

***Impairments**. High levels of iron are found in some areas. Locally high chloride, calcium, and TDS are also found.*

A Groundwater Management Plan has not been developed for the Smith River Plain Groundwater Basin. The groundwater basin is ranked as a **very low priority**.

Overdraft is the condition of a groundwater basin in which the amount of water withdrawn by pumping over the long term exceeds the amount of water that recharges the basin. Overdraft is characterized by groundwater levels that decline over a period of years and never fully recover, even in wet years.

The Smith River Plain Groundwater Basin has not been identified as being overdrafted based on extraction rates, cone of depression, recharge rate, and water surface elevation. The basin has not been identified as likely to become overdrafted if present management conditions continue.

DRAFT

The volume of groundwater pumped from 2020 through 2025 is included in Table 6-1. During 2020-2025 there were no limitations or challenges obtaining groundwater.

6.2.2.2 Basin Management Information

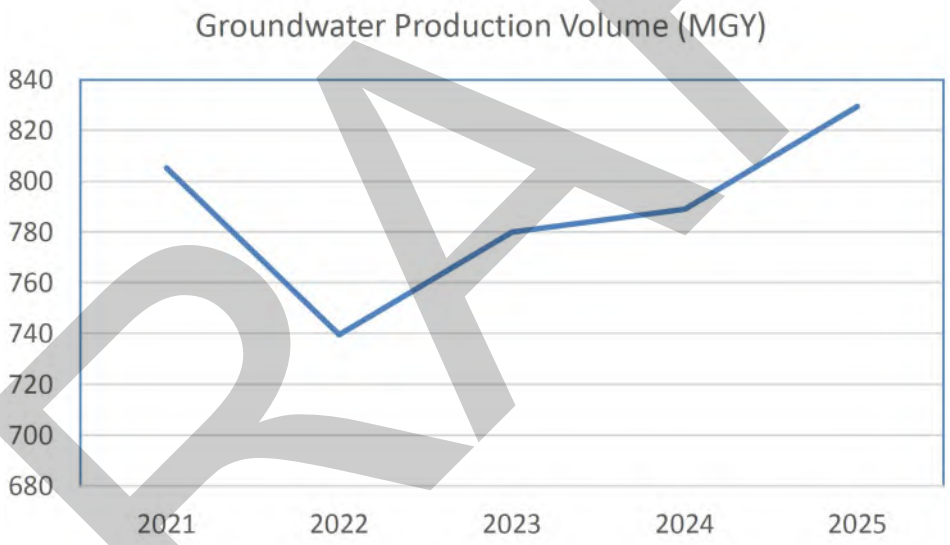
A Groundwater Management Plan has not been developed for the Smith River Plain Groundwater Basin. The groundwater basin is ranked as a **very low priority**.

6.2.2.3 Other Considerations

The number and physical capacity of wells, and condition of the water distribution system are considerations beyond the availability of water from the Smith River Plain Groundwater Basin.

6.2.2.4 Past Five Years Groundwater Pumping

The volume of groundwater produced in the past five years is shown on the graph below:



6.2.3 Stormwater

Crescent City does not currently or plan to intentionally divert stormwater for beneficial reuse.

6.2.4 Wastewater and Recycled Water

The City WWTF was designed to be capable of producing tertiary-treated recycled water in compliance with Water Recycling Criteria in Title 22 of the California Code of Regulations. The City has not acquired the necessary permits and approval to use the recycled water. The City does not intend to utilize recycled water in the planning period.

The City owns and operates a wastewater collection, treatment, and disposal facility with a design average dry weather treatment capacity of 1.86 MGD for treating

DRAFT

domestic, commercial, and industrial wastewater. The collection system service area includes the City of Crescent City and the County Service Area (Figure 2), which includes a total population of 20,365 (2020). Treatment processes at the Crescent City WWTF consist of headworks, including a mechanically cleaned screen, a Parshall flume, and a wet well; primary treatment, including two grit removal tanks and two clarifiers; and secondary treatment. Secondary treatment is provided by operating rotating biological contactors and a membrane bioreactor in parallel. Flows from the rotating biological contactors and any flow from the membrane bioreactor that is not used for recycled water use are commingled, disinfected and dechlorinated. Flow from the membrane bioreactor that can be used for recycled water is disinfected with ultraviolet (UV) light.

Solids handling consists of gravity thickening of primary sludge, rotary drum thickening of secondary sludge, and anaerobic digestion of thickened sludge. Dewatered solids are placed in a landfill.

The amount of wastewater collected in 2025 in the Crescent City system was approximately 535 million gallons. Wastewater flow is metered.

Although the Crescent City Wastewater Treatment Facility is capable of generating recycled water, use of recycled water is not currently permitted. No plans exist to acquire the necessary permits and approvals to generate and use recycled water in the planning horizon.

6.2.4.1 Recycled Water Coordination

The City WWTF was designed to produce tertiary-treated recycled water in compliance with Water Recycling Criteria in Title 22 of the California Code of Regulations. The City has not acquired the necessary permits and approval to use the recycled water. The City does not intend to utilize recycled water in the planning period.

6.2.4.2 Wastewater Collection, Treatment, and Disposal

6.2.4.2.1 Wastewater Collected Within the Service Area

The City owns and operates a wastewater collection, treatment, and disposal facility with a design average dry weather treatment capacity of 1.86 MGD for treating domestic, commercial, and industrial wastewater. The collection system service area includes the City of Crescent City and the County Service Area (Figure 2), which includes a total population of 20,365 (2020).

6.2.4.2.2 Wastewater Treatment and Discharge

Treatment processes at the Crescent City WWTF consist of headworks, including a mechanically cleaned screen, a Parshall flume, and a wet well; primary treatment, including two grit removal tanks and two clarifiers; and secondary treatment. Secondary treatment is provided by operating rotating biological contactors and a membrane bioreactor in parallel. Flows from the rotating biological contactors and any flow from the membrane bioreactor that is not used for recycled water are commingled, disinfected and dechlorinated. Flow from the

DRAFT

membrane bioreactor that can be used for recycled water is UV disinfected.

6.2.4.3 Recycled Water System Description

The City WWTF was designed to produce tertiary-treated recycled water utilizing UV technology in compliance with Water Recycling Criteria in Title 22 of the California Code of Regulations. The City has not acquired the necessary permits and approval to use the recycled water.

6.2.4.4 Current, Potential, and Projected Recycled Water Uses

The City does not intend to utilize recycled water in the planning period.

6.2.4.4.1 Potential Recycled Water Use

The City does not intend to utilize recycled water in the planning period.

6.2.4.4.2 Projected Recycled Water Use

The City does not intend to utilize recycled water in the planning period.

6.2.4.5 Actions to Encourage and Optimize Future Recycled Water Use

The City does not intend to utilize recycled water in the planning period.

6.2.5 Desalinated Water Opportunities

Due to the abundant supply of water, Crescent City is not currently using or considering the use of desalinated water.

6.2.6 Water Exchanges or Transfers

This section describes any existing, planned, or potential future water exchanges or transfers.

6.2.6.1 Exchanges

Due to the abundant supply of water, Crescent City is not currently using or considering exchanges or transfers of water. There are no other water agencies in the nearby region.

6.2.6.2 Transfers

Due to the abundant supply of water, Crescent City is not currently using or considering exchanges or transfers of water. There are no other water agencies in the region.

6.2.6.3 Emergency Interties

Crescent City does not have emergency water interties. There are no other water agencies in the region.

6.2.7 Supply From Storage

Crescent City does not have long-term storage of water to draw a supply from.

DRAFT

6.2.8 Other

Due to the abundant supply Crescent City does not need to investigate other water sources.

6.2.9 Future Water Projects

Crescent City currently has funding to evaluate a potential groundwater well on City-owned property between the Ranney Well and Crescent City.

6.3 Energy Use

Energy costs were not readily available during the preparation of this plan.

6.4 Submittal Tables

Submittal Table 6-1 Retail: Groundwater Volume Pumped
Water Code Section 10631(4) and 10631(4)(c)

☐	Check the box if the Supplier does not pump groundwater. Proceed to the next table.
☐	Check the box if all or part of the groundwater described below is desalinated. (OPTIONAL)

Groundwater Type **Drop Down List** May use each category multiple times	Potable or Non-Potable (OPTIONAL) **Drop down list**	Location or Basin Name	2021 (MG)	2022 (MG)	2023 (MG)	2024 (MG)	2025 (MG)
Add additional rows as needed							
Alluvial Basin	Potable	Smith River	805.23	739.56	780.052	855.84	829.44
		Total	805	740	780	856	829

DWR NOTES:
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.

NOTES

DRAFT

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area Water Code Section 10633(a)				
☐	Check the box if there is no wastewater collection system. Proceed to the next table.			
100%	Percentage of 2025 service area served by wastewater collection system (OPTIONAL)			
100%	Percentage of 2025 service area population served by wastewater collection system (OPTIONAL)			
Wastewater Collection			**Recipient of Collected Wastewater**	
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? OPTIONAL **Drop Down List**	Volume of Wastewater Collected from UWMP Service Area 2025 (MG)	Name of Wastewater Treatment Plant (WWTP) and Place ID Number **Drop down list**	Is WWTP Located Within UWMP Area? **Drop Down List**
Add additional rows as needed				
City of Crescent City	Metered	535	Crescent City WWTP, Place ID 216106	Yes
Total Wastewater Received from UWMP Service Area in 2025:		535		
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3. **Additional Guidance**: See Appendix M, Section M.21 for detailed guidance on this table.				
NOTES:				

Submittal Table 6-3 Retail: Wastewater Treatment and Outcomes Within UWMP Service Area Water Code Section 10633(b)															
☐	Check the box if no wastewater is treated or disposed of within the UWMP service area. Proceed to the next table.														
				2025 Outcomes of Treated Wastewater											
Wastewater Treatment Plant Name and Place ID Number **Drop down list**	Does This Plant Treat Wastewater Generated Outside the UWMP Service Area? (OPTIONAL) **Drop down list**	2025 Volume of Wastewater Received from UWMP Service Area (As Reported in Submittal Table 6-2 R) (MG)	Total 2025 Volume of Water Treated (MG)	**Water Recycled Within UWMP Service Area** (enter data as applicable)		**Water Recycled Outside of UWMP Service Area** (enter data as applicable)		**Effluent Discharge that is not a Permitted Recycled Water Use** (enter data as applicable)		**Required Discharge for Instream Flow** (enter data as applicable)		**Delivered to Another Entity for Additional Treatment** (enter data as applicable)		
				Treatment Level **Drop down list**	Volume (MG)	Treatment Level **Drop down list**	Volume (MG)	Treatment Level **Drop down list**	Volume (MG)	Treatment Level **Drop down list**	Volume (MG)	Treatment Level **Drop down list**	Volume (MG)	Name of other entity
Add additional rows as needed															
Crescent City WWTP, Place ID 216106	Yes	535	353												
Total		535	353		0		0		0		0		0		
DWR NOTES: **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3. **IPR:** Indirect Potable Reuse would have the treatment level of its end use requirement in the Level of Treatment drop-down. **Additional Guidance:** See Appendix M, Section M.21 for detailed guidance on this table.															
NOTES:															

DRAFT

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area
Water Code Section 10633 (c),(d),(e)

☑ Check box if recycled water is not used and is not planned for use within the service area of the supplier. The supplier will only complete the column on "Potential Recycled Water Use" and submit an accompanying narrative on the feasibility of that potential recycled water use.

Name(s) of Facility/ies Producing (Treating) the Recycled Water (OPTIONAL) :	
Name of Supplier Operating the Recycled Water Distribution System (OPTIONAL) :	
Volume of Supplemental Water Added in 2025 (OPTIONAL) :	
Source of 2025 Supplemental Water (OPTIONAL) :	

Use Type Drop down list	Potable or Non-Potable (after treatment if treated) (OPTIONAL) Drop down list	Additional Information (as needed)	2025 (MG)	2030 (MG)	2035 (MG)	2040 (MG)	2045 (MG)	2050 (MG)	Potential Recycled Water Use	
									Volume	Narrative page number (OPTIONAL)
Add additional rows as needed										
		Subtotal Potable	0	0	0	0	0	0	0	
		Subtotal Non-Potable	0	0	0	0	0	0	0	
		Total	0	0	0	0	0	0	0	0

DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.
Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table.
Potential recycled water use: a description of the feasibility of these uses must be included in the narrative.
Multiple Producers: If you have multiple recycled water producers, submit a separate table for each.

NOTES:

Submittal Table 6-5 Retail: 2020 UWMP Recycled Water Use Projection Compared to 2025 Actual
Water Code Section 10633(e)

☑ Check the box if recycled water was not used in 2025 nor previously projected for use in 2020.
Proceed to the next table.

Use Type Drop Down list	2020 Projection for 2025 (MG)	2025 Actual Use (MG)
Add additional rows as needed		
Total	0	0

DWR NOTES:
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure reported in Submittal Table 2-3
Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table.

NOTES:

DRAFT

Submittal Table 6-6 Retail: Methods to Encourage Future Recycled Water Use
Water Code Section 10633(f)

☑	Check the box if the Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.
	Provide page location of narrative in the UWMP

Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use (MG)
Add additional rows as needed			
		Total (MG)	0
		Unit Conversion to AF	0

DWR NOTES:
Units of measure (AF, CCF, MG) MUST remain consistent with units reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.
The unit conversion to Acre Feet addresses the Water Code's requirement that this value be provided in acre-feet.

NOTES:

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs
Water Code Section 10631(f)

☐	Check the box if there are no expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Proceed to the next table.
☐	Check the box if some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.
	Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other suppliers?		Additional Description (as needed)	**Potable or Non-Potable** (after treatment if treated) (OPTIONAL) Drop Down list	Planned Implementation Year	Planned for Use in Year Type **Drop Down List**	Expected Increase in Water Supply to Supplier (This may be a range) (MG)
	Drop Down List (yes/no)	If Yes, Supplier Name					
Add additional rows as needed							
Additional Water Well	No		Currently evaluating the potential for a new goundwater production well on city owned property.	Potable	2027	Average Year	Not known a tthis point.

DWR NOTES:
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure reported in Submittal Table 2-3.

NOTES:

DRAFT

Submittal Table 6-8 Retail: Water Supplies — Actual
Water Code Section 10631(b)

Water Supply	Additional Description (as needed)	2025		
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool		**Potable or Non-Potable** (after treatment if treated) (OPTIONAL) Drop Down list	Actual Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)
Add additional rows as needed				
Groundwater (not desalinated)	Smith River Underflow	Potable	829	
		Subtotal Potable	829	0
		Subtotal Non-Potable	0	0
		Total	829	0

DWR NOTES:
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.
Total Entitlement: e.g. Water Right, Groundwater Allocation, Contracted Amount.

NOTES:

Submittal Table 6-9 Retail: Water Supplies — Projected
Water Code Section 10631 (b)

Water Supply	Additional Detail on Water Supply	Potable or Non-Potable (after treatment if treated) (OPTIONAL) Drop Down list	Projected Water Supply (Report to the Extent Practicable)									
			2030		2035		2040		2045		2050 (opt)	
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool			Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)
Add additional rows as needed												
Groundwater (not desalinated)		Potable	1,194		1,194		1,194		1,194			
		Subtotal Potable	1,194	0	1,194	0	1,194	0	1,194	0	0	0
		Subtotal Non-Potable	0	0	0	0	0	0	0	0	0	0
		Total	1,194	0	1,194	0	1,194	0	1,194	0	0	0

DWR NOTES:
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.
Total Entitlement: e.g. Water Right, Groundwater Allocation, Contracted Amount.

NOTES:

DRAFT

7.0 WATER SERVICE RELIABILITY AND DROUGHT RISK ASSESSMENT

This Section describes the reliability of Crescent City's water supply and projects the reliability out 20 years. This description will be provided for normal, single dry years and multiple dry years.

Assessing water service reliability is the fundamental purpose for preparing a UWMP. Water service reliability reflects the City's ability to meet the water needs of its customers, including end-use customers and retail suppliers, with water supplies under varying conditions. The City's UWMP will consider the reliability of meeting customer water use by analyzing plausible hydrological variability, regulatory variability, climate conditions, and other factors that affect a supplier's water supply and its customer's water uses.

7.1 Constraints on Water Sources Considerations

Potential constraints on the City's water source includes, legal, environmental, and climate factors. Crescent City and the State Department of Corrections (Pelican Bay Prison) have separate water rights permits for Smith River underflow. Crescent City pumps groundwater for both groundwater permits.

Groundwater production is limited by combined water rights permits which limits annual production to 1,194 MGY.

Maximum Permitted Pumping Rate			
Entity	**Permit Number**	**Cubic Feet per Second**	**Million Gallons /Day**
City of Crescent City	11475	9.8	6.3
State Department of Corrections	20210	3	1.9
Total		**12.80 cubic feet per second**	**8.2 MGD**

Maximum Permitted Annual Production			
Entity	**Permit Number**	**Acre Feet / Year**	**Million Gallons /Year**
City of Crescent City	11475	2,600	847
State Department of Corrections	20210	1,066	347
Total		**3,666**	**1,194**

The highest projected demand in the next 20 years occurs in 2030 (805 MGY), which is well within the limits of the combined water rights permits. Foreseeable legal constraints are not considered a limitation within the 25-year planning period. Currently and within the planning period the only foreseeable environmental issues that could limit the City's water supply would be a chemical or fuel spill within the watershed which has occurred in the past.

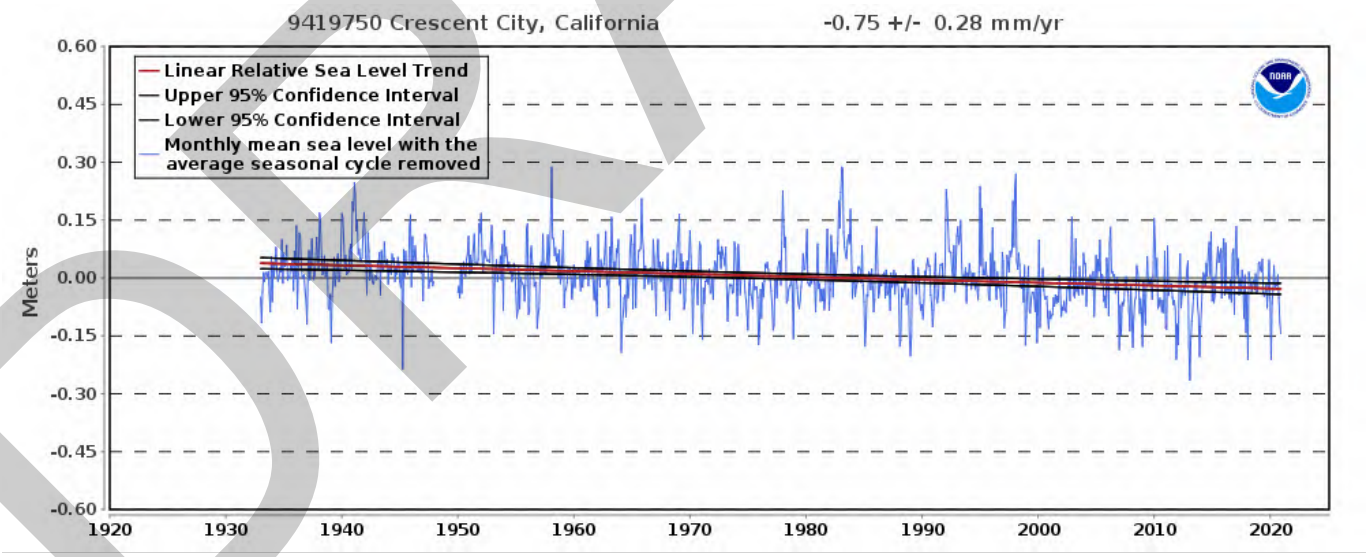
DRAFT

Constraints due to climate change are discussed in Section 4.2.6. As a result of this evaluation, it is concluded that climate change will affect the water supply and water demand very little in this area. Based on the results of the climate risk evaluation calculations (Kennedy Jenks, March 29, 2021) the City is most at risk for increases in precipitation, flooding, and storm surge due to climate change. Extreme precipitation events, increases in annual average precipitation, and more intense storm surge are the predicted results of climate change.

Climate change was evaluated and considered. The impacts of climate change on water demand would primarily be the result of gains or losses in population. There may be a shifting, or loss of population as a result of the immediate local effects of climate change. Coastal populations could increase as "climate refugees" seek more livable locations along the coast (cooler, less fire risk, water supply). The water supply, and water infrastructure, could be impacted by several of the risks, or combination of risks, listed above.

Future constraints on water supplies, due to declining groundwater levels is not anticipated based on the historic response (lack of response) of groundwater levels to changes in precipitation as shown later in this section.

Constraints on water supply due to sea level rise (SLR) is unlikely. According to (Kennedy Jenks, 2021): "Projections of sea-level rise (SLR) in the North Coast region are complicated by different rates of vertical land motion and large interseismic tectonic motions along the southern Cascadia subduction zone. Crescent City is uplifting faster than long-term global SLR due to this interseismic uplift, resulting in a negative, or decreasing local SLR rate (North Coast Fourth Assessment, 2018).



Source: National Oceanic and Atmospheric Administration, Center for Operational Oceanographic Products and Services. *Relative Sea Level Trend, 9419750 Crescent City, California.* Accessed February 9, 2021 via https://tidesandcurrents.noaa.gov/sltrends/sltrends_station.shtml?id=9419750

DRAFT

Due to projected increases in annual precipitation (Kennedy Jenks, 2021), constraints of water supply due to decreased snowpack is unlikely.

Current water management strategies include:

- Identification and correction of water loss causes;
- Continued monitoring of precipitation, Smith River discharge, and groundwater elevations in the Smith River Plain Groundwater Basin; and
- Investigation of potential groundwater well on City owned property located between the Ranney Well and Crescent City.

7.2 Water Service Reliability Assessment

Crescent City relies on groundwater from-City owned groundwater wells in the Smith River Plain Groundwater Basin. Groundwater production is limited by water rights permits held by the City and by State Department of Corrections which limits the combined annual production to 1,194 MGY. Projected water production demand in 2045 is 786 MGY which is well within the limits of the water rights permit. Analysis of precipitation and Smith River flow data indicate that climatic variations (wet and dry years) affect the monthly average flow during the wet season but have little or no effect on dry weather flows. Based on historic conditions, the groundwater source for Crescent City will likely be available at a consistent level over the 20-year planning period.

7.2.1 WSRA Year-Type Characterization

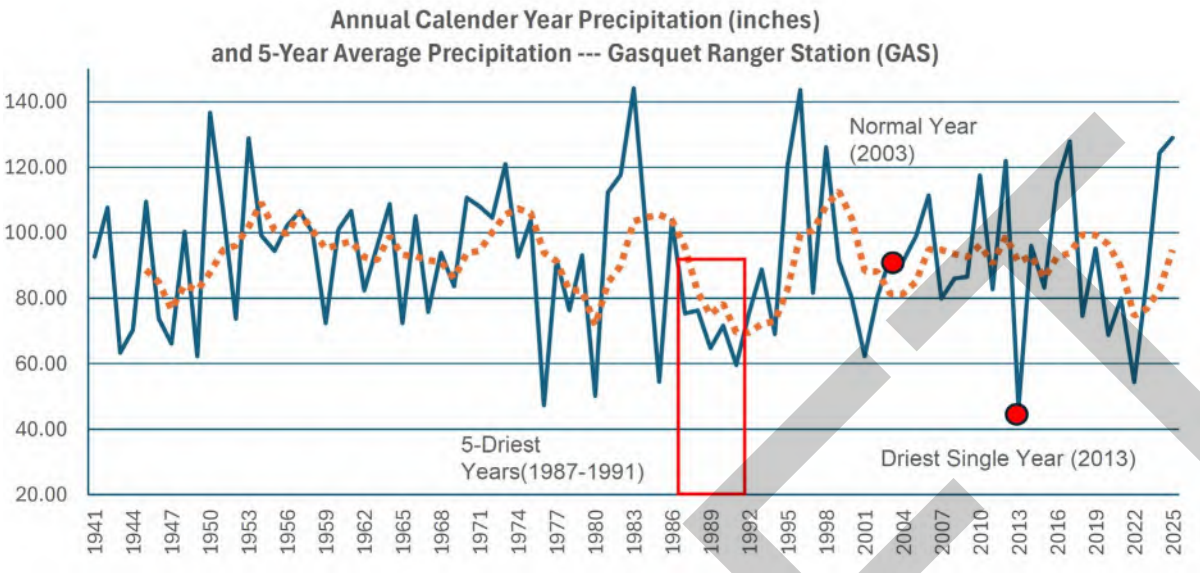
There are three year-types for which the Water Supply Reliability Analysis (WSRA) must be conducted. To conduct this assessment, Suppliers will need to identify what these year-types are and their associated effects on water supplies for their local conditions.

7.2.1.1 Types of Years

The three year-types (normal year, single dry year, and five consecutive-year drought) that must be included in the WSRA are described below:

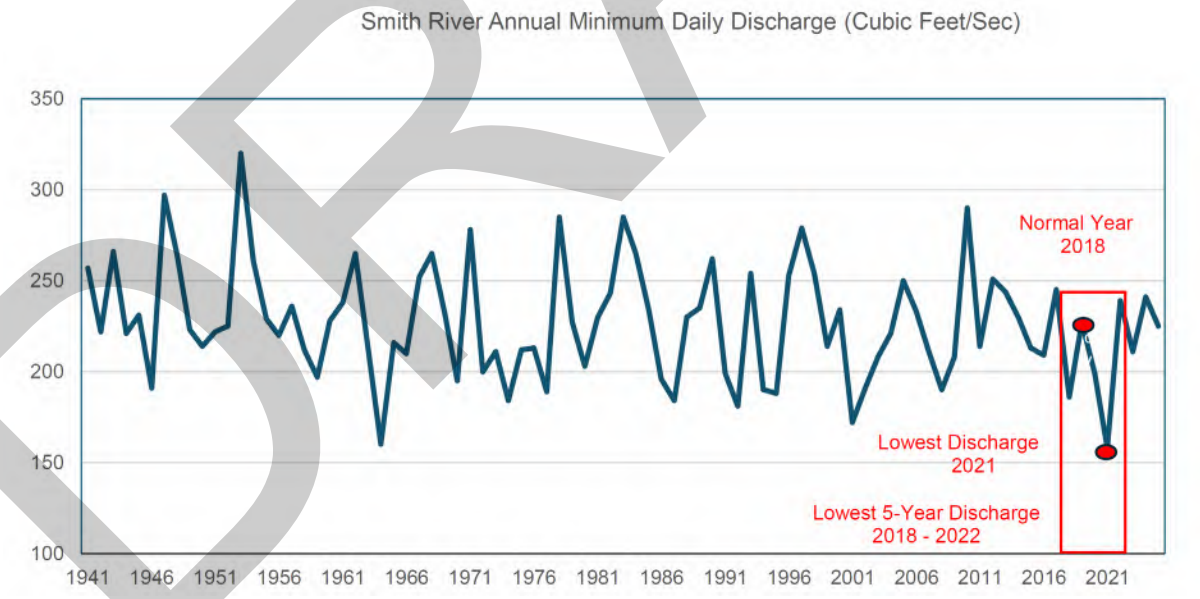
- **Normal Year.** This condition represents the water supplies a supplier considers available during normal conditions. This could be a single year or averaged range of years that most closely represents the average water supply available to the Supplier. In this Guidebook, DWR uses the terms “average” and “normal” interchangeably when addressing the water-year type. Below are charts of annual precipitation trends, and Smith River discharge trends.

DRAFT



Gasquet Precipitaion Statistics (1941 – 2026)

Type of Year	Year(s)	Annual Precipitation (inches)	Percent of Normal
Normal Year	2003	92.24	100%
Single Driest Year	2013	46.50	50%
5-Driest Years	1987 - 1991	69.51	76%



The historic low Smith River discharge (158 cfs) that occurred in 2021, was the culmination of the three previous years of below normal and decreasing annual precipitation. The single driest year (2013) had a limited impact on Smith River discharge due to the short duration of the event preceded and followed by years with above normal precipitation.

DRAFT

Smith River Discharge Statistics (1941 – 2026)

Type of Year	Year(s)	Annual Minimum Daily Discharge (cfs)	Percent of Normal
Normal Year	2018	227 cfs	100%
Single Minimum Annual Daily Discharger	2021	158 cfs	70%
5-Years With Lowest Average Minimum Daily Discharge	2018 – 2022	202 cfs	89%

- **Single Dry Year.** Suppliers can analyze trends and extremes to identify the relevant single dry year used for their analysis. In general, this will likely be the year that represents the lowest water supply available to the supplier.

  The single driest year (Gasquet, CA) was 2013 (46.5 inches) which is (50% of normal). The year with the lowest Smith River discharge was 2021 (158 cfs) which is (70%) normal.

- **Five-Consecutive-Year Drought.** There are no specifications for characterizing the WSRA five-consecutive-year drought in the Water Code.

  Five consecutive years of lowest average precipitation was from 1987 to 1991. Five consecutive years when the Smith River had the lowest average discharge was 2018 to 2022.

7.2.1.2 Sources for Water Data

Data sources used for the WSRA include:

- Precipitation records Gasquet, CA (1944-2025) (Gasquet, CA), https://scacis.rcc-acis.org/;
- Smith River Discharge (1941-2026), USGS-11480390; and
- Groundwater observations of CASGEM wells.

The Smith River is sustained by groundwater during periods of low precipitation which buffers the impact of dry periods. The record highest production rate for Crescent City was 980 MGY. The lowest annual minimum daily Smith River discharge was 158 cubic feet per second (37,230 MGY). The City's highest recorded demand volume (980 MGY) is only 2.6% of the recorded lowest annual minimum daily discharge.

DRAFT

7.2.2 WSRA Supply and Demand Comparison

The Crescent City water supply is reliable and consistent as indicated in the above section. Demand projections, based on projected population growth, will be met with the supply for all of the drought scenarios as indicated in Tables 7-1, 7-2, 7-3, and 7-4. Supply projections are conservatively modeled as the water rights combined permit limit (1,194 MGY) which is only 3% of the lowest historical discharge 158 cfs (37,230 MGY). The city's highest projected demand is 830 MGY which is 70% of the water rights permit limit and

7.2.2.1 Normal Years

Demand projections, based on projected population growth, will be met with the supply for the normal year scenario as indicated in Table 7-2. The average precipitation for Gasquet occurred in 2003 with a total of 92.24 inches. Normal Smith River discharge is 227 cfs which occurred in 2018.

During the normal year for precipitation (2003), and the normal year for Smith River discharge (2018), demand was met by supply.

7.2.2.2 Single Dry Year

The single driest year (Gasquet, CA) was 46.5 inches in 2013 which is 50% of normal. The year with the lowest Smith River discharge was 2021 with a minimum daily discharge of 158 cfs, (37,230 MGY). The City's highest projected demand volume is 830 MGY (2025), which is only 2.2% of the minimum Smith River discharge.

7.2.2.3 Five Consecutive Dry Years

The 5-driest years recorded at Gasquet was the period 1987–1991 with precipitation being 70% of normal. The 5-years with lowest average minimum daily discharge was the period 2018–2022 which was 89% of normal discharge.

7.2.3 WSRA Description of Management Tools and Options

Requirement: *An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.*

Current water management strategies include:

- Identification and correction of water loss causes; and
- Continued monitoring of precipitation, Smith River discharge, and groundwater elevations in the Smith River Plain Groundwater Basin.

7.3 Drought Risk Assessment

The Drought Risk Assessment (DRA) is contained in the Crescent City Water Shortage Contingency Plan (WSCP) (Appendix C).

DRAFT

7.3.1 DRA Data, Methods, and Basis for Water Shortage Conditions

The primary sources of data used in the DRA include:

- Crescent City performed an analysis of annual precipitation totals from the nearest weather station with a continuous historic record 1949-2025, (Gasquet, California);
- USGS Gauging Station data Smith River (USGS gauging station 11532500); and
- Groundwater elevation from wells in the Smith River Plain Groundwater Basin (data from CASGEM wells).

The method that was used for the DRA was initiated by reviewing the historical precipitation records for the area and determination of the annual total precipitation for the area. The annual total precipitation was analyzed to determine the average precipitation for the "normal year". The year with the least precipitation was designated as the "single driest year". The annual total precipitation data was also analyzed to determine the 5-year interval with the lowest average precipitation, "driest 5 years" as shown below:

Type of Year	Year(s)	Annual Precipitation (inches)	Percent of Normal
Normal Year	2003	92.24	100%
Single Driest Year	2013	46.50	50%
5-Driest Years	1987 - 1991	69.51	76%

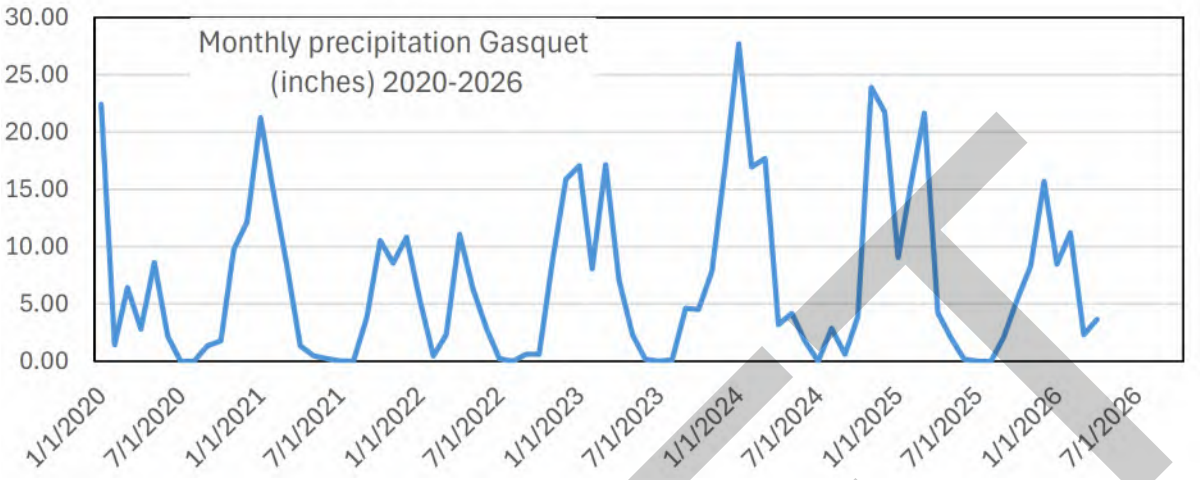
The Smith River discharge was then reviewed to determine the year with the lowest minimum discharge, and the 5 years with lowest average discharge volume.

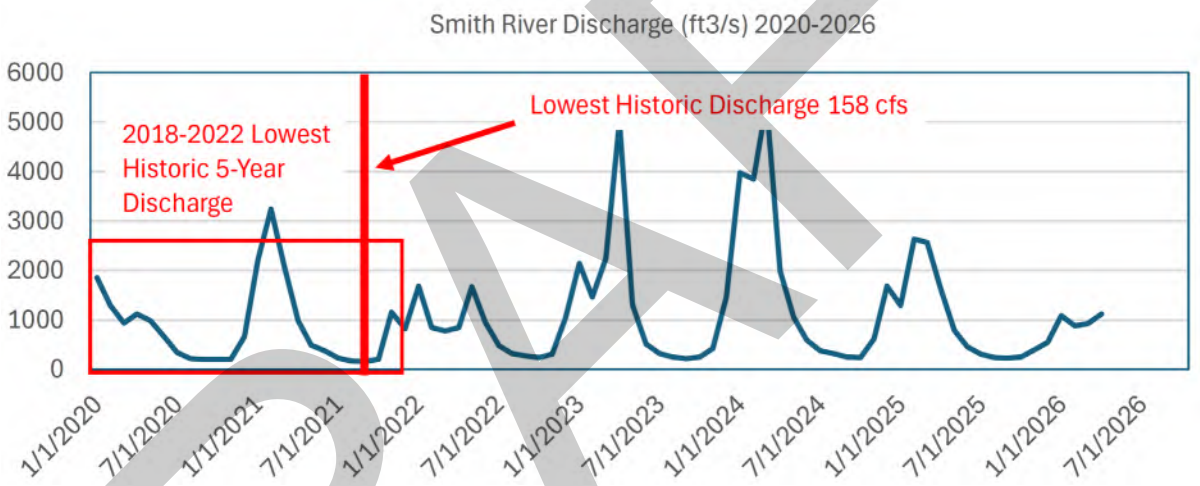
Type of Year	Year(s)	Annual Minimum Daily Discharge (cfs)	Percent of Normal
Normal Year	2018	227 cfs	100%
Single Minimum Annual Daily Discharger	2021	158 cfs	70%
5-Years With Lowest Average Minimum Daily Discharge	2018 – 2022	202 cfs	89%

The historic low Smith River discharge (158 cfs) that occurred in 2021, was the culmination of the three previous years of below normal and decreasing annual precipitation.

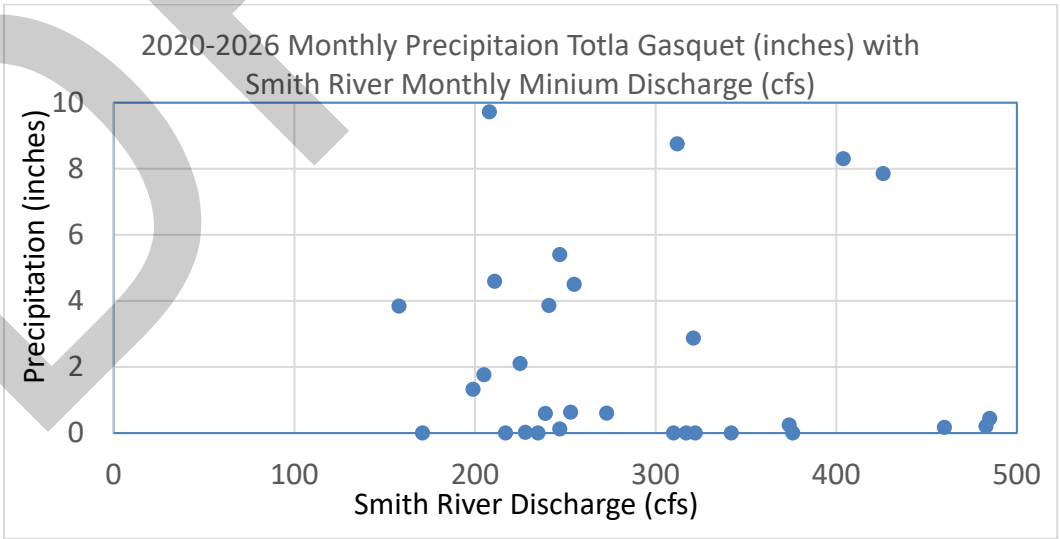
Analysis of Gasquet monthly precipitation and Smith River monthly discharge is shown in the charts below for the period 2020 to 2026.

DRAFT





Restricting the range and domain of the data set above is shown in the scatter plot below:



DRAFT

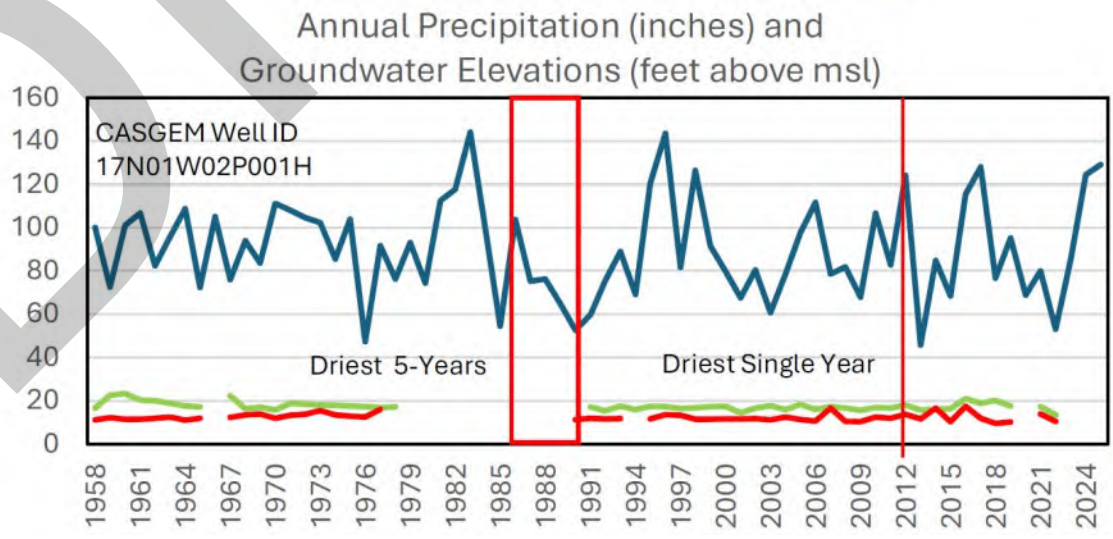
The scatter plot above shows that even during periods of low, and no monthly precipitation, the Smith River minimum monthly flows have stayed above 150 cfs (37,230 MGY).

The final step was to evaluate groundwater elevations in several wells that have been monitored within the Smith River Plain Groundwater Basin to see the effect of the single driest year and the driest 5 years on groundwater elevations.

Groundwater annual high and low elevations were plotted with annual precipitation for several groundwater wells used to monitor conditions of the Smith Groundwater Plain Groundwater Basin. The wells are located in different locations within the groundwater basin.

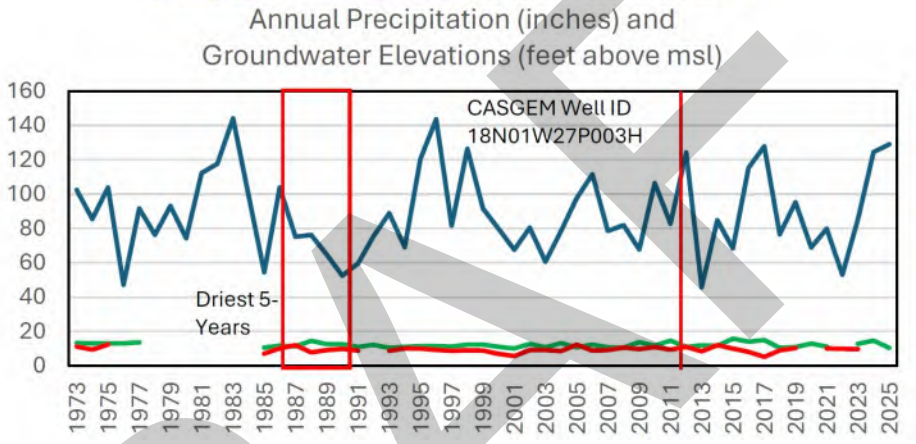
The following pages include maps showing the location of the wells in the Smith River Groundwater Basin and graphs showing precipitation and the elevation of wet season and dry season changes through time.

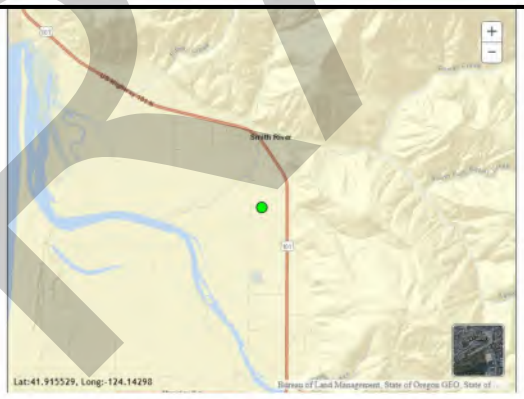


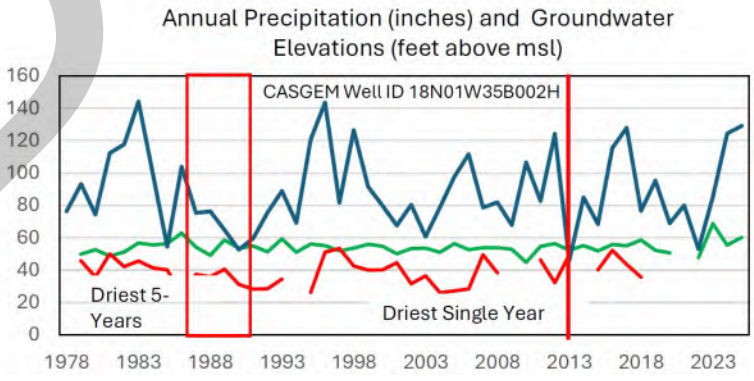


DRAFT


Smith River
Pala Rd
Lat:41.912173, Long:-124.169521

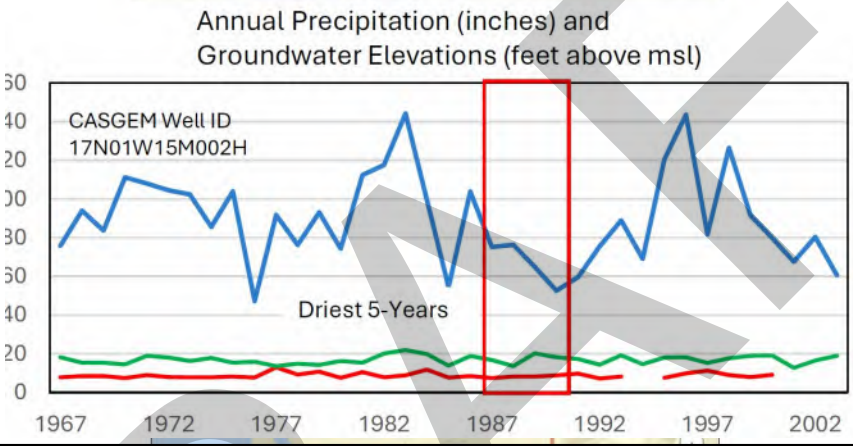

Annual Precipitation (inches) and Groundwater Elevations (feet above msl)
CASGEM Well ID 18N01W27P003H
Driest 5-Years
160
140
120
100
80
60
40
20
0
1973
1975
1977
1979
1981
1983
1985
1987
1989
1991
1993
1995
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
2017
2019
2021
2023
2025


Smith River
Lat:41.915529, Long:-124.14298

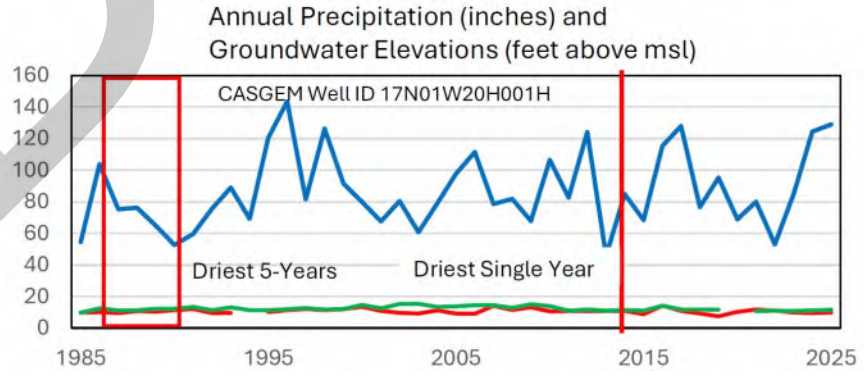

Annual Precipitation (inches) and Groundwater Elevations (feet above msl)
CASGEM Well ID 18N01W35B002H
Driest 5-Years
Driest Single Year
160
140
120
100
80
60
40
20
0
1978
1983
1988
1993
1998
2003
2008
2013
2018
2023

DRAFT

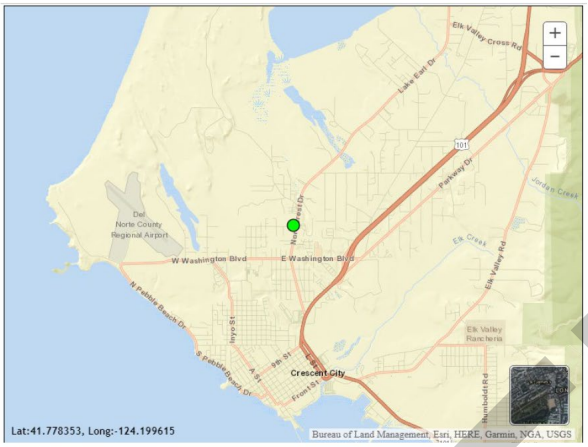

Lat:41.8655, Long:-124.1742


Annual Precipitation (inches) and
Groundwater Elevations (feet above msl)
CASGEM Well ID
17N01W15M002H
Driest 5-Years
1967
1972
1977
1982
1987
1992
1997
2002

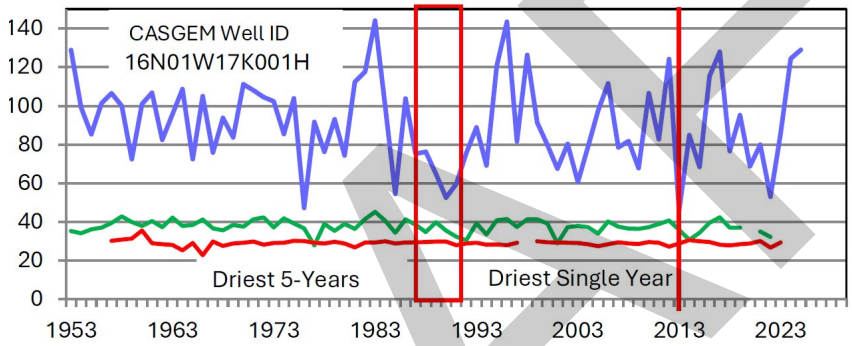

Lat:41.852247, Long:-124.201582

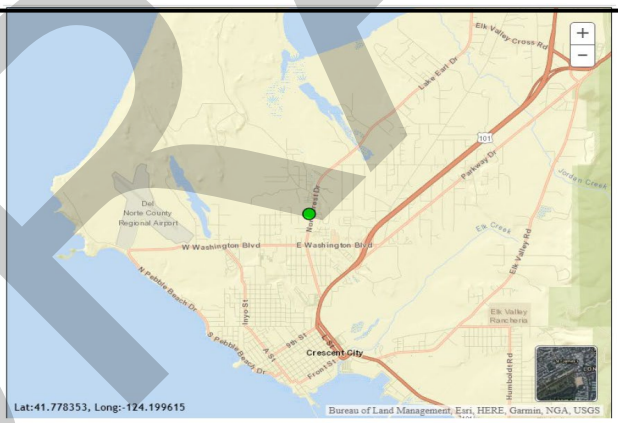

Annual Precipitation (inches) and
Groundwater Elevations (feet above msl)
CASGEM Well ID 17N01W20H001H
Driest 5-Years
Driest Single Year
160
140
120
100
80
60
40
20
0
1985
1995
2005
2015
2025

DRAFT

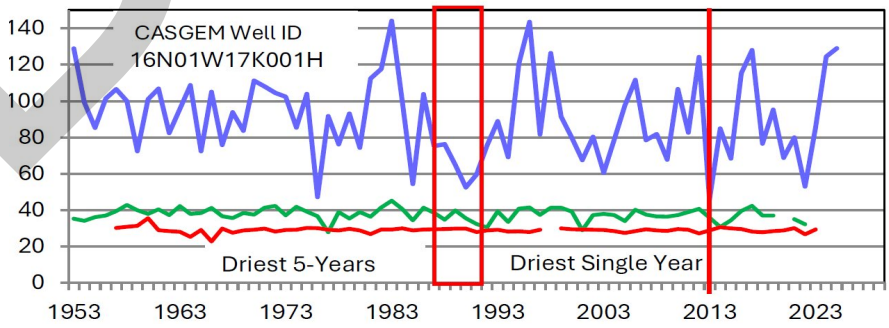


Annual Precipitation (inches) and Groundwater Elevations (feet above msl)





Annual Precipitation (inches) and Groundwater Elevations (feet above msl)



DRAFT

The plots on the previous pages indicate the following:

- Groundwater elevations in several wells were relatively stable throughout the time of available data (1950's to 2025).
- The single driest and multiple driest 5 years on record did not have an impact on the dry weather groundwater elevations. Dry season groundwater elevations appear to be relatively stable throughout the time interval covered by the available data.

Conclusions regarding water source reliability include:

- Historic periods of dry weather do not appear to have significantly impacted the seasonally low Smith River discharge volumes due to recharge from the surrounding Smith River Plain Groundwater Basin;
- Historic periods of dry weather do not appear to have had an impact on seasonally low groundwater elevations in the Smith River Plain Groundwater basin: and
- The Crescent City water supply is not currently experiencing the impact of drought and has been reliable even during periods of record low precipitation.

Reliability of the water supply is reflected in Tables 7-1, 7-2, 7-3, and 7-4.

7.3.2 DRA Individual Water Source Reliability

The DRA was performed for the single source of water used by Crescent City, groundwater from the Smith River Plain Groundwater Basin.

7.3.3 DRA Total Water Supply and Use Comparison

The DRA total water supply and demand are compared and are presented in tables 7-1 through 7.5 These tables indicate that the Crescent City water supply is not currently experiencing the impact of drought and has been reliable even during periods of record low precipitation.

Based on historic trends of precipitation and Smith River discharge, It is likely that the Crescent City water supply will be reliable even during periods of record low precipitation (single driest year and driest 5 years) into the future for the 20-year planning period.

DRAFT

7.4 Submittal Tables

Optional Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment)			
Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2024-2025, use 2025	Available Supplies if Year Type Repeats ☐ Check the box if quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. **Location:** [insert location from UWMP]	
		Quantification of available supplies is provided in this table as either volume only, percent only, or both.	
		Volume Available (MG)	% of Average Supply
Average Year	2019	53655	100%
Single-Dry Year	2021	37230	70%
Consecutive Dry Years 1st Year	2018	43877	82%
Consecutive Dry Years 2nd Year	2019	53549	100%
Consecutive Dry Years 3rd Year	2020	46943	88%
Consecutive Dry Years 4th Year	2021	37270	70%
Consecutive Dry Years 5th Year	2022	56378	93%
DWR NOTES: Supplier may use multiple versions of Submittal Table 7-1 R if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a Supplier uses multiple versions of Submittal Table 7-1 R, in the "Note" section of each submittal table, state that multiple versions of Submittal Table 7-1 R are being used and identify the particular water source that is being reported in each submittal table. **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table reports the units of measure reported in Submittal Table 2-3.			
NOTES:			

Submittal Table 7-2 Retail: Normal Year Supply and Use Comparison Water Code Section 10635 (a)					
	2030 (MG)	2035 (MG)	2040 (MG)	2045 (MG)	2050 (MG)
Supply totals (autofill from Submittal Table 6-9 R)	1,194	1,194	1,194	1,194	0
Use totals (autofill from Submittal Table 4-2 R)	805	797	789	781	0
Surplus/(shortfall)	389	397	405	413	0
OPTIONAL Planned WSCP Actions					
WSCP - supply augmentation benefit					
WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)					
DWR NOTES : Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES:					

DRAFT

Submittal Table 7-3 Retail: Single Dry Year Supply and Use Comparison Water Code Section 10635(a)					
	2030 (MG)	2035 (MG)	2040 (MG)	2045 (MG)	2050 (MG)
Supply totals	1,194	1,194	1,194	1,194	0
Use totals	805	797	789	781	0
Surplus/(shortfall)	389	397	405	413	0
OPTIONAL Planned WSCP Actions					
WSCP - supply augmentation benefit					
WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)					
DWR NOTES : Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES					

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Use Comparison Water Code Section 10635(a)						
		2030 (MG)	2035 (MG)	2040 (MG)	2045 (MG)	2050 (MG)
First year	Supply totals	1,194	1,194	1,194	1,194	0
	Use totals	805	797	789	781	0
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
Second year	Supply totals	1,194	1,194	1,194	1,194	
	Use totals	805	797	789	781	
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
Third year	Supply totals	1,194	1,194	1,194	1,194	
	Use totals	805	797	789	781	
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
Fourth year	Supply totals	1,194	1,194	1,194	1,194	
	Use totals	805	797	789	781	
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
Fifth year	Supply totals	1,194	1,194	1,194	1,194	
	Use totals	805	797	789	781	
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.						
NOTES:						

DRAFT

Submittal Table 7-5 Retail: Five-Year Drought Risk Assessment Water Code Section 10635(b)(3)	
2026	**Total**
Total Water Use (MG)	824
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	370
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
2027	**Total**
Total Water Use (MG)	820
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	374
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
2028	**Total**
Total Water Use (MG)	815
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	379
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
2029	**Total**
Total Water Use (MG)	810
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	384
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
2030	**Total**
Total Water Use (MG)	805
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	389

DRAFT

8.0 WATER SHORTAGE CONTINGENCY PLAN

This Section describes Crescent City's staged plan for dealing with water shortages, including a catastrophic supply interruption.

The Crescent City Water Shortage Contingency Plan, 2021 (Appendix C), contains the following prescriptive elements:

- Key attributes of its Water Supply Reliability Analysis conducted pursuant to Water Code Section 10635. [Water Code Section 10632(a)(1)];
- Four water shortage levels correspond six standard water shortage levels to progressive ranges of up to 10-, 20-, 30-, 40-, and 50-percent shortages and greater than 50-percent shortage. [Water Code Section 10632 (a)(3)(A)];
- Locally appropriate "shortage response actions" for each shortage level, with a corresponding estimate of the extent the action will address the gap between supplies and demands. [Water Code Section 10632 (a)(4)];
- Procedures for conducting an annual water supply and demand assessment with prescribed elements. Under Water Code Section 10632.1, urban water suppliers are required to submit, by July 1 of each year, beginning in the year following adoption of the 2020 UWMP, an annual water shortage assessment report to DWR. [Water Code Section 10632 (a)(2)];
- Communication protocols and procedures to inform customers, the public, and government entities of any current or predicted water shortages and associated response actions. [Water Code Section 10632 (a)(5)];
- Monitoring and reporting procedures to ensure appropriate data is collected to monitor customer compliance and to respond to any state reporting requirements. [Water Code Section 10632(a)(9)]; and
- A re-evaluation and improvement process to assess the functionality of its WSCP and to make appropriate adjustments as may be warranted. [Water Code Section 10632(a)(10)].

8.1 Water Supply Reliability Analysis

Crescent City relies on groundwater from City-owned groundwater wells in the Smith River Plain Groundwater Basin. Groundwater production is limited by City and State Department of Corrections water rights permits, which combined limits annual production to 1,194 MGY. Projected water production demand in 2045 is 780.7 MGY which is well within the limits of the water rights permits. Analysis of precipitation and Smith River flow data indicate that climatic variations (wet and dry years) affect the monthly average flow during the wet season but have little or no effect on dry weather flows. Based on the above information, the groundwater source for Crescent City is available at a consistent level over the 20-year planning period.

8.2 Annual Water Supply and Demand Assessment Procedures

Annually the City will perform a Water Supply and Demand Assessment as described in the water shortage contingency plan and described in the sections below. Crescent City will prepare Annual Water Supply and Demand Assessments utilizing the following data:

- Projected current year unconstrained demand;
- Projected current year available supply; and

DRAFT

- Existing infrastructure capabilities and plausible constraints.

8.2.1 Decision-Making Process

The City's Annual Water Supply and Demand Assessment will follow the following approximate schedule:

- Second week of May – Data collection, precipitation data, Smith River discharge data, and groundwater elevation data;
- Third week of May – Data evaluation. Determine current year unconstrained demand, current year available supply, identify existing infrastructure capabilities and plausible constraints, and generate the Draft-Annual Water Supply and Demand Assessment;
- Fourth week of May – Annual Water Supply and Demand Assessment reviewed by the Director of Public Works and the City Manager and finalized;
- First week in June – Notice of public meeting;
- Third week in June – Report presented to the City Council; and
- July 1 - Annual Water Supply and Demand Assessment to the Department of Water Resources.

8.2.2 Data and Methodologies

Crescent City will prepare Annual Water Supply and Demand Assessments utilizing the following data:

- Precipitation data from the Gasquet Ranger Station (GAS);
- Discharge data from the Smith River (USGS gauging station 11532500);
- Current conditions for USGS 11532500 SMITH R NR CRESCENT CITY CA);
- Groundwater elevation data from CASGEM wells within the Smith River Plain Groundwater Basin;
- Projected current year unconstrained demand; and
- Projected current year available supply.

The above data will be evaluated with similar methodologies and added to the analysis of water supply reliability contained in Section 2 of this plan. A finer time increment of analysis may be employed in the methodologies.

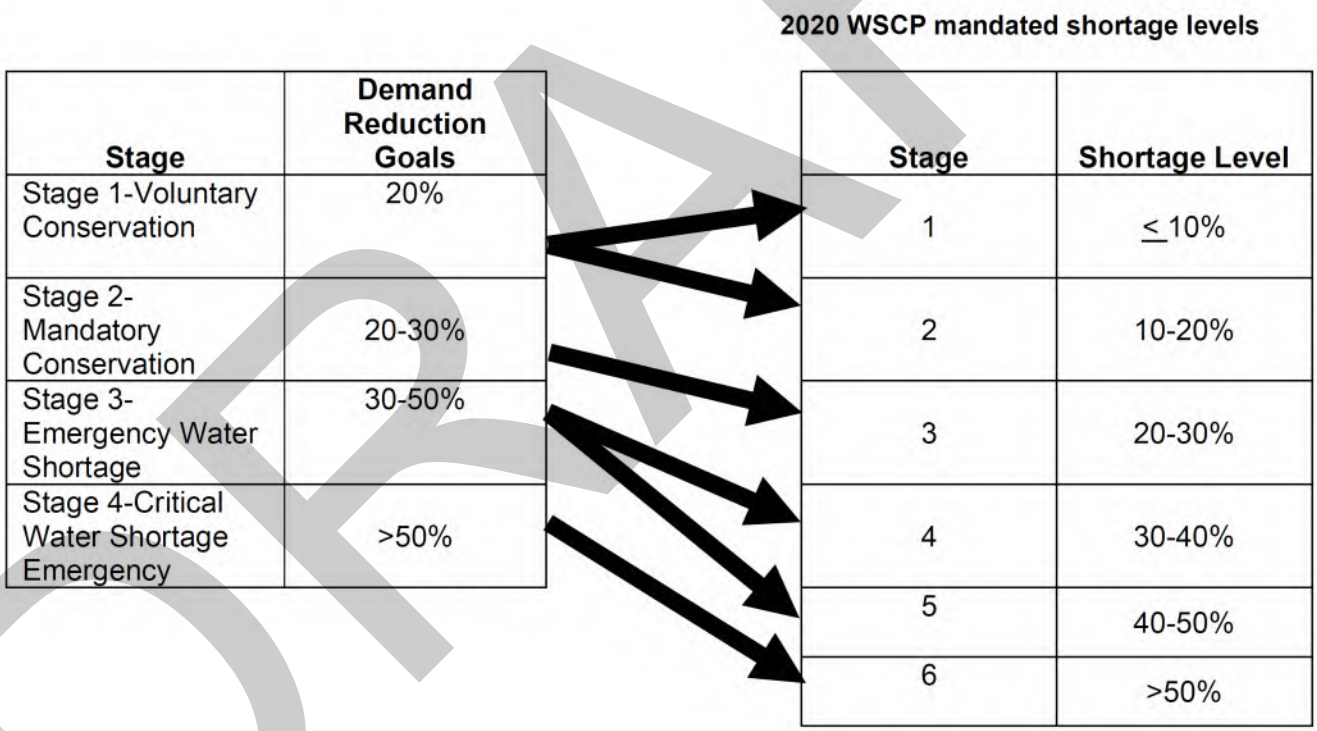
DRAFT

8.3 Shortage Response Actions

Crescent City's Water Shortage Contingency Plan consists of the following stages of rationing and demand reduction goals:

Stage	Demand Reduction Goals
Stage 1-Voluntary Conservation	20%
Stage 2-Mandatory Conservation	20-30%
Stage 3-Emergency Water Shortage	30-50%
Stage 4-Critical Water Shortage Emergency	>50%

A graphic correlation between the shortage level (stages) contained in this WSCP and the 2020 WSCP mandated shortage levels is shown below:



8.4 Shortage Response Actions

8.4.1 Supply Augmentation

Not in response to any current or future water shortage, the Crescent City has funding to evaluate a potential new groundwater well on City-owned property between the Ranney Well and Crescent City.

DRAFT

8.4.2 Demand Reduction

Over the past five years Crescent City has focused water conservation efforts on public education and outreach and programs to assess and manage distribution system real loss.

Public Education and Outreach - In the past five years Crescent City has conducted public education and outreach including:

- Public announcements and discussions at public meetings;
- Flyers are available at City Hall, which promote water conservation;
- The City website has a link to water conservations tips and tools;
- Annual conservation message is placed in the Consumer Confidence Report; and
- Each water user has access to a website that reports their monthly water use for the past 12 months.

Programs to Assess and Manage Distribution System Real Loss – Crescent City has completed AWWA Water Loss Audits for calendar years 2013 through 2024. Based on results of the audits, Crescent City has focused efforts on leak repair. Crescent City has also been working continuously with the water billing software and software provider to be able to generate meaningful reliable monthly water distribution volumes.

8.4.3 Operational Changes

Crescent City has meters on all services and sources. Due to the water distribution system's age and the areas seismic activitiy, the City routinely monitors for leaks, conducts distribution system repair and meter calibration activities. During a stage 3 water shortage emergency, the City will discontinue the sales of bulk water and will eliminate street sweeping with water.

Crescent City has completed AWWA Water Loss Audits up to calendar year 2024 and is committed to annual water loss audits. Crescent City will measure the effectiveness of this DMM by ongoing monitoring of system loss.

8.4.4 Additional Mandatory Restrictions

Additional mandatory restrictions included in the City's Water Shortage Contingency Plan are included below:

DRAFT

During a **Stage I** water shortage voluntary water conservation is requested of all customers including the specific voluntary measures below:

- Use water efficient indoor devices.
- Use of hose-end shutoff nozzles on all garden and utility hoses.
- Refrain from washing cars, boats, trailers, or other vehicles except by hose with shutoff nozzle and bucket.
- Installation of low-flow shower heads, low-flush toilets, and faucet aerators.
- Promptly repair all leaks in plumbing fixtures, water lines, and sprinkler systems.

During a **Stage 2** water shortage water use as indicated in the table below are nonessential and are prohibited:

Outdoor irrigation of ornamental landscapes or turf with potable water is prohibited on odd numbered calendar days.
Washing sidewalks, driveways, parking areas, tennis courts, patios or other exterior paved areas except by public agency for the purpose of public safety.

DRAFT

Application of potable water to outdoor landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures.
Use of potable water in a fountain or other decorative water feature, except where the water is part of a recirculation system.
Watering any portion of a golf course other than the tees and greens except where private well or recycled water supply is used.
Fire hydrant water unless authorized by the City, except by fire protection agencies for fire suppression purposes, or for other authorized uses including storm drain maintenance, and street sweeping purposes. Water/sewer flushing, and fire flow testing are authorized only if coordinated and performed at the same time.
The use of a hose that dispenses potable water to wash a motor vehicle or for any other purpose, except where the hose is fitted with a shutoff nozzle or device attached to it that causes it to cease dispensing water immediately when not in use.

During a **Stage 3** water shortage emergency, in addition to the restricted water uses in earlier Stages, water uses indicated below are nonessential and are prohibited:

Outdoor irrigation is prohibited unless total water use is reduced by 50 % from the same billing period from the previous calendar year (prior to declaration of the most recent water shortage emergency).
Bulk water sales.
Any leaks that are not repaired within 24 hours after discovery.
Automated commercial car washes without a water recycling system.
Street cleaning or dust control with potable water.
Filling or to top off any swimming pools, outdoor spas, wading pools, and ornamental water features.
Use of water from a fire hydrant except for fighting fires and human consumption.
Watering any residential lawn or any commercial or industrial area lawn maintained for aesthetic purposes, at any time of the day or night during the period of March 1, through September 30, when a Stage 3 is in effect.
Planting any new landscaping, except for designated drought-resistant landscaping approved by the City.
Operating a hotel, motel or other commercial lodging establishment without offering patrons the option to forego the daily laundering of towels, sheets and linens.
Use of water for any outdoor washing purpose including commercial car washing, window washing, and paint preparation.
Washing of cars, boats, trailers, or other vehicles.

DRAFT

During a **Stage 4** water shortage emergency, in addition to the restricted water uses in earlier stages, water uses indicated below are nonessential and are prohibited:

Agricultural irrigation.
Outdoor irrigation.
Any leaks that are not repaired immediately.

Fines and penalties and enforcement are established in the Crescent City Municipal Code in Chapter 13.17.040 through 13.17.080 “Water Conservation”. Enforcement actions include:

- Warnings, verbal and written (13.17.040);
- Installation of a flow-restricting device (13.17.040);
- Water service surcharge (13.17.050); and
- Termination of service (13.17.060).

8.4.5 Emergency Response Plan

The California Safe Drinking Water Act mandates in Section 4029 that every public water system includes a Disaster Response Plan as part of their Emergency Notification Plan. This plan will outline the steps to be taken to maintain or return water service to Crescent CIty customers after a major disaster. Crescent City has an Emergency Response Plan (ERP) that was updated in September 2024 which describes the actions the City will take during a catastrophic interruption of water supplies.

8.4.6 Seismic Risk Assessment and Mitigation Plan

The 2025 Del Norte County Hazard Mitigation Plan, under the federal Disaster Mitigation Act of 2000 (Public Law 106-390) addresses seismic risk and is included as Appendix D. In volume 2 of the Del Norte County Hazard Mitigation Plan contains specific seismic mitigation projects for the Crescent City Water System including:

- Seismic retrofitting for specific water tanks;
- Retrofit water main;
- Ordinance improvements;
- Purchase mobile equipment;
- Well retrofit;
- Installation of Hydro-Pneumatic Tank; and
- Purchase of Portable Water Equipment.

8.4.7 Shortage Response Action Effectiveness

Each shortage response action identified in the WSCP corresponds to an estimate of the extent to which that action will reduce the gap between supplies and uses.

DRAFT

2020 WSCP mandated shortage levels

Stage	Demand Reduction Goals
Stage 1-Voluntary Conservation	20%
Stage 2-Mandatory Conservation	20-30%
Stage 3-Emergency Water Shortage	30-50%
Stage 4-Critical Water Shortage Emergency	>50%

Stage	Shortage Level
1	≤10%
2	10-20%
3	20-30%
4	30-40%
5	40-50%
6	>50%

The above table includes an estimate of the extent to which that action will reduce the gap between supplies and uses. Specific prohibitions, and requirements within each stage of water shortage are detailed in the Crescent City 2021 WSCP (Appendix C).

8.5 Communication Protocols

On an annual basis in the month of June, Public Works staff will perform an Annual Assessment of City water supplies, state regulatory requirements, notices, or orders, and determine if a water shortage emergency exists or is imminent within the Crescent City water service area.

The results of the Annual Assessment will be communicated to the Public Works Director and the City Manager. The City Manager will report the findings of the Annual Assessment to the City Council before the end of June. The City Manager may recommend a water shortage emergency resolution to the City Council if warranted.

If a water shortage emergency is declared, it will be communicated to the water customers, general public, interested parties, and local and regional government agencies utilizing any of the following methods:

- bill inserts;
- press releases;
- radio spots;
- social medial posts;
- and blog posts.

DRAFT

8.6 Compliance and Enforcement

Crescent City has a Water Shortage Contingency Plan (WSCP) (Appendix C) that governs their actions during a water shortage emergency and under various specific conditions authorized by Crescent City Municipal Code Section 13.17 (contained in Appendix E). The

Water Shortage Contingency Plan provides a range of water use restrictions to reduce water consumption. Crescent City Municipal Code Section 13.17 provides enforcement authority and penalties for violation of the water use restrictions. Fines and penalties and enforcement are established in the Crescent City Municipal Code in Chapter 13.17.040 through 13.17.080 "Water Conservation". Enforcement actions include:

- Warnings, verbal and written (13.17.040);
- Installation of a flow-restricting device (13.17.040);
- Water service surcharge (13.17.050); and;
- Termination of service (13.17.060).

Crescent City's Municipal Code Section 13.17 was designed to be flexible and able to be implemented in a wide range of water shortage situations. The Crescent City WSCP meets the 2020 UWMP requirements and contains the water shortage contingency levels and also contains demand reduction measures.

8.7 Legal Authorities

8.7.1 Legal Authorities

The legal authority for this Water Shortage Contingency Plan is contained in the Crescent City Municipal Code in amended Chapter 13.17.010 and 13.17.0158.7.2.

8.7.2 Proclamation of Local Emergency

Crescent City Municipal Code 13.17.026 "Determination of stage of action necessary" includes the authority and process for declaration of a water shortage emergency.

8.8 Financial Consequences of a Water Shortage Contingency Plan

8.8.1 Financial Impacts and Mitigation Action

During the implementation of the various water shortage emergency stages, there will be an impact on revenue and expenses for the City due to the anticipated demand reduction. Revenue from water sales will be reduced and expenses including electricity (pumping) and supplies (treatment chemicals). Financial results will be closely monitored during any Water Shortage Emergency to ensure revenue is adequate.

In the event revenues decrease, or are projected to decrease, to a level impacting utility operations, the following options will be considered:

- Use of reserve funds if funds can be reduced to a level which still complies with other existing financial covenants;
- Use of capital improvement funds by deferring capital improvement projects as long as the deferment of projects does not pose a threat to public health or safety; and/or

DRAFT

- Implement excess use penalties.

8.8.2 Reporting Cost of Compliance With Excessive Water Use Prohibition During Drought Emergency

During the implementation of the various water shortage emergency stages, there will be an impact on revenue and expenses for the City due to the anticipated demand reduction. Revenue from water sales will be reduced and expenses including electricity (pumping) and supplies (treatment chemicals) will also be reduced. Financial results will be closely monitored during any Water Shortage Emergency to ensure revenue is adequate.

In the event revenues decrease or are projected to decrease to a level impacting utility operations, the following options will be considered:

- Use of reserve funds if funds can be reduced to a level which still complies with other existing financial covenants;
- Use of capital improvement funds by deferring capital improvement projects, as long as the deferment of projects does not pose a threat to public health or safety; and/or
- Implement excess use penalties.

8.9 Monitoring and Reporting.

During a declared water shortage emergency, water production volumes will be reviewed monthly, including a calculation of Gallons Per Capita per Day (GPCD), and comparison to the same month of the year just prior to the declaration of a water shortage emergency.

8.10 Water Shortage Contingency Plan Refinement Procedures

Crescent City's Water Shortage Contingency Plan was developed in the 2021 UWMP and was reviewed during the preparation of the 2025 UWMP. Crescent City's Water Shortage Contingency Plan (2021) is included in Appendix C. As part of the UWMP development process, (every 5 years) the Water Shortage Contingency Plan will be reviewed and updated as necessary.

8.11 Special Water Feature Distinction

Crescent City is not aware of any water features that use potable water without a recirculation system.

8.12 Plan Adoption, Submittal, Availability, and Amendment Procedures

The 2025 UWMP (including the 2021Water Shortage Contingency Plan) was adopted by the City Council on June 22, 2026. Within 30 days after adoption of the 2025 UWMP, the City submitted an electronic, or hardcopy, of the adopted 2025 UWMP to the California State Library, and an electronic copy was provided to Bertsch Ocean View CSD, Church Tree CSD, Del Norte County, and Pelican Bay State Prison.

DRAFT

8.13 Submittal Tables

Submittal Table 8-1: Cross-reference for Standard vs Supplier Shortage Levels Water Code Section 10632(a)(3)(B)			
☐	Check the box if the Supplier uses the Standard six levels of water shortage. Proceed to the next table.		
Standard Shortage Levels	**Percent Shortage Range**	**Suppliers Shortage Levels**	**Percent Shortage Range**
1	Up to 10%	1	20
2	Up to 20%	1	20
3	Up to 30%	2	30
4	Up to 40%	3	50
5	Up to 50%	3	50
6	>50%	4	>50
NOTES:			

Submittal Table 8-2 Retail: Supply Augmentation and Other Actions **Water Code Section 10632(a)(4)(A),(C) and (E)**				
No	Is the Supplier completing this table using the standard six levels? (yes/no)			
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier **Drop down list** These are the only categories that will be accepted by the WUEdata online submittal tool	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (MG)	
Add additional rows as needed				
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.				
NOTES:				

DRAFT

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B),(D), and (E)					
No	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions **Drop down list** These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? **For Retail Suppliers Only** Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (MG)		
Add additional rows as needed					
1	Landscape - Other landscape restriction or prohibition	Percentage	10%		
2	Landscape - Other landscape restriction or prohibition	Percentage	20%		
3	Other - Prohibit use of potable water for washing hard surfaces	Percentage	30%		
4	Landscape - Limit landscape irrigation to specific days	Percentage	40%		
5	Landscape - Limit landscape irrigation to specific days	Percentage	50%		
6	Landscape - Prohibit all landscape	Percentage	>50%		
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES:					

DRAFT

9.0 DEMAND MANAGEMENT MEASURE

This Section will describe Crescent City's efforts to promote conservation and to reduce demand for their water supply and will specifically address several demand management measures (DMMs).

9.1 Demand Management Measures for Retail Suppliers

9.1.1 Implementation Over the Past Five Years

Over the past five years Crescent City has focused water conservation efforts on public education and outreach and programs to assess and manage distribution system real loss.

Public Education and Outreach - In the past five years Crescent City has conducted public education and outreach including:

- Public announcements and discussions at public meetings;
- Flyers are available at City Hall, which promote water conservation;
- The City website has a link to water conservations tips and tools;
- Annual conservation message is placed in the Consumer Confidence Report; and
- Each water user has access to a website that reports their monthly water use for the past 12 months.

Programs to Assess and Manage Distribution System Real Loss – Crescent City has completed AWWA Water Loss Audits for calendar years 2013 through 2024 Based on results of the audits Crescent City has focused efforts on leak repair. Crescent City has also been working continuously with the water billing software and software provider to be able to generate meaningful reliable monthly water distribution volumes.

9.1.2 Implementation to Achieve Water-Use Targets

To maintain water conservation, Crescent City will continue to emphasize public education and outreach and programs to assess and manage distribution real loss.

9.1.3 Required Demand Management Measures

This Section will describe Crescent Cit's efforts to promote conservation and to reduce demand on their water supply and will specifically address several demand management measures.

9.1.3.1 Water-Waste Prevention Ordinances

Crescent City Municipal Code Section 13.17 prohibits the waste of water. "No water furnished by the City may be wasted" (13.17.028).

9.1.3.2 Metering

All Crescent City customer sectors are metered including separate meters. All customers are on meters and are billed by volume used monthly.

9.1.3.3 Conservation Pricing

Crescent City's water billing pricing structure consists of a service charge for water availability (base charge) and quantity use charges (consumption

DRAFT

charge). There is no inclining use (tiered) charges associated with Crescent City's pricing structure at this time. Crescent City has abundant water supplies and relies on water rate revenues to operate. Implementing conservation measures would reduce operating revenue (other than leak reduction).

9.1.3.4 Public Education and Outreach

Crescent City supports initiatives to inform the public about water conservation. In the future, Crescent City will continue these efforts to raise public awareness of water conservation issues in a similar manner.

Crescent City has a link on its web page to promote water use awareness and water conservation. Annual Consumer Confidence Reports include information about water conservation. Water users have access to a web application that allows water users to review water use over the past 12 months which promotes awareness and water conservation.

9.1.3.5 Programs to Assess and Manage Distribution System Real Loss

Crescent City has meters on all services and sources. Due to the water distribution system's age and the areas seismic events, Crescent City routinely monitors for leaks, conducts distribution system repair and meter calibration activities. Totalizers connected to the Crescent City's control system measure and record production rates, receiving rates, as well as delivery rates. These readings are taken continuously and are monitored at all times by Crescent City staff. Crescent City will measure the effectiveness of this DMM by ongoing monitoring of system loss.

Crescent City has completed AWWA Water Loss Audits since 2013 and is committed to annual water loss audits. As a result of the water loss audits, Crescent City will be reviewing data collection and reporting processes for water production and sales with the goal of improving the data quality. Crescent City will measure the effectiveness of this DMM by ongoing monitoring of system loss.

9.1.3.6 Water Conservation Program Coordination and Staffing Support

The Utilities Supervisor has been assigned as the City Conservation Coordinator and has overall responsibility for oversight and implementation of the water conservation program(s).

9.1.3.7 Other Demand Management Measures

Crescent City has installed additional sub-system meters in the area with noted losses to better isolate leakage.

9.2 Demand Management Measures for Wholesale Suppliers

9.2.1 Required Demand Management Measures

9.2.1.1 Metering

This section does not apply to Crescent City.

DRAFT

9.2.1.2 Public Education and Outreach

This section does not apply to Crescent City.

9.2.1.3 Water Conservation Program Coordination and Staffing Support

This section does not apply to Crescent City.

9.2.1.4 Other Demand Management Measures

Conservation Pricing

This section does not apply to Crescent City.

9.2.2 Wholesale Demand Management Measures

9.2.2.1 Asset Management

This section does not apply to Crescent City.

9.2.2.2 Supplier Assistance Programs

This section does not apply to Crescent City.

DRAFT

10.0 URBAN WATER MANAGEMENT PLAN ADOPTION, SUBMITTAL, AND IMPLEMENTATION

The following steps will be used for the 2025 UWMP adoption, submittal, and to make it available to the public:

10.1 Plan Completion Timeline

Notice of preparation to cities and counties that the Supplier will be reviewing the UWMP and considering amendments to the plan 60 days prior to the public hearing.	March 25, 2026
Legal Notice of Public Hearing (newspaper).	June 11, 2026
Legal Notice of Public Hearing (posting)	June 2, 2026
Public Hearing and Adoption 2025 UWMP.	June 15. 2026
Submit the 2025 UWMP to the Department of Water Resources by July 1, 2026.	July 1, 2026
Submittal to other agencies.	By July 1, 2026
Submittal the Cities 2025 UWMP and WSCP to the California Public Utilities Commission as part of its general rate case filings.	By July 1, 2026

10.2 Notice of Plan Preparation

On March 25, 2026, the City provided a notice of plan preparation to Bertsch Ocean View CSD, Church Tree CSD, Del Norte County, and Pelican Bay State Prison

A copy of the notification of UWMP revision is contained in Appendix B.

10.3 Notice of Public Hearing

Crescent City notified Bertsch Ocean View CSD, Church Tree CSD, Del Norte County, Pelican Bay State Prison that the UWMP was under review (Appendix B). Pursuant to Section 6066 of the Government Code, Notice of Public Hearing was published in the newspaper on June 1, 2026 and June 8, 2026. The City's 2025 UWMP was also available for public review at City Hall. Notice of Public Hearing was provided to Bertsch Ocean View CSD, Church Tree CSD, Del Norte County, and Pelican Bay State Prison on May 28, 2026.

10.4 Public Hearing and Adoption

The City held its public hearing for the 2025 UWMP at its regularly scheduled City Council meeting on June 15, 2026. Following the hearing, the City Council adopted the 2025 UWMP as prepared. The following documents relating to the public hearing have been included:

- Certificate of Publication of the Legal Notice of Public Hearing (Appendix F);
- City Council Agenda Notice of Public Hearing (Appendix F); and
- City Council Resolution Adopting the City's 2025 UWMP (Appendix G).

DRAFT

10.5 Plan Submittal

10.5.1 Submitting a UWMP and Water Shortage Contingency Plan to DWR

The City's 2025 UWMP was submitted to the DWR within 30 days of adoption on June 15, 2026. By July 1, 2026 the 2025 UWMP was submitted as an electronic copy to the California State Library, and electronic copy to the Bertsch Ocean View CSD, Church Tree CSD, Del Norte County, and Pelican Bay State Prison.

10.5.2 Electronic Data Submittal

The City submittal of the 2025 UWMP was through the DWR's Water Use Efficiency data online submittal tool.

10.5.3 Submitting a UWMP, Including WSCP, to the California State Library

By July 1, 2026 the 2025 UWMP was submitted as an electronic copy to the California State Library.

10.5.4 Submitting a UWMP to Cities and Counties

An electronic copy of the 2025 UWMP was provided to the Bertsch Ocean View CSD, Church Tree CSD, and Del Norte County. The City made its 2025 UWMP available for public review and held a public hearing to receive input. After adoption of the 2025 UWMP, the City made the plan available for public review at City Hall. Documentation showing the adopted UWMP was available for public review.

10.7 Notification to Public Utilities Commission

The City's 2025 UWMP and WSCP were submitted to the California Public Utilities Commission as part of its general rate case filings.

10.8 Plan Implementation

The City will implement its 2025 UWMP adopted pursuant to this chapter in accordance with the schedule set forth in its plan.

10.9 Amending an Adopted Urban Water Management Plan or Water Shortage Contingency Plan

10.9.1 Amending a UWMP or WSCP

Any changes to the 2025 UWMP shall be adopted by the City Council. All notification, public hearing, adoptions, and submittal requirements will be followed for an amended plan.

10.9.2 Submitting Revised Water Shortage Contingency Plan

If the Water Shortage Contingency Plan is revised and adopted by the City Council, the City will follow notification, public hearing, adoptions, and submittal requirements for an amended plan.

DRAFT

10.10 Submittal Tables

Submittal Table 10-1 Retail: Notification to Cities and Counties Water Code Section 10621(b) and 10642		
City Name	60 Day Notice **Drop Down (yes/no)**	Notice of Public Hearing **Drop Down (yes/no)**
Add additional rows as needed		
County Name **Drop Down List**	60 Day Notice **Drop Down (yes/no)**	Notice of Public Hearing **Drop Down (yes/no)**
Add additional rows as needed		
Del Norte County	Yes	Yes
NOTES:		

DRAFT

References

Climate change was recently evaluated in a report titled "***Crescent City Climate Change Readiness Study***" prepared by Kennedy Jenks (Kennedy Jenks, March 29, 2021).
Kennedy Jenks, March 29, 2021.

Smith River Plain Groundwater Basin, from California's Groundwater Bulletin 118, 2003 update, (State of California, Department of Water Resources, 2003).

DRAFT

TABLES

DRAFT

Submittal Table 2-1 Retail: Public Water Systems			
Public Water System Number	Public Water System Name	Number of Municipal Connections 2025	Volume of Water Supplied 2025 (MG)
Add additional rows as needed			
CA0810001	City of Crescent City	4,581	829
	Total	4,581	829
DWR NOTES: **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.			
NOTES:			

DRAFT

Submittal Table 2-2: Plan Identification		
Select One	**Type of Plan**	**Name of Regional Alliance or RUWMP** (Drop Down List)
☑	**Individual UWMP**	
	If Water Supplier is also a member of a SB X7-7 Regional Alliance, select name from the drop-down.	
☐	**Regional Urban Water Management Plan (RUWMP)**	
	If Supplier selected RUWMP, select name from the drop-down.	
NOTES:		

DRAFT

Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
☐	Supplier is a wholesale supplier
☑	Supplier is a retail supplier
Fiscal or Calendar Year (select one)	
☑	UWMP Tables are in calendar years
☐	UWMP Tables are in fiscal years
If using fiscal years provide month and date that the fiscal year begins (mm/dd)	
Units of measure used in UWMP (Select from the drop down list).	
Unit	MG
DWR NOTES: **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Submittal Table 2-3.	
NOTES:	

DRAFT

Submittal Table 2-4 Retail: Water Supplier Information Exchange Water Code Section 10631(h)
The retail Supplier has informed the following wholesale supplier(s) of projected water use.
Wholesale Water Supplier Name
Add additional rows as needed
NOTES: Crescent is not supplied water by a wholesaler and does not provide wholesale watr to others.

DRAFT

Submittal Table 3-1 Retail: Population - Current and Projected Water Code Section 10631(a)						
Population Served	2025	2030	2035	2040	2045	2050(opt)
	17,871	17,415	17,265	17,148	16,983	

NOTES: Urban Population 3.53 persons / total water connections, per 2020 UWMP based on census data/connections. Plus 1,700 Pelican Bay Prison population adjusted down from previous UWMP estimate of 4,000. Population projections (2025-2050) are based on the California Department of Finance projected population growth rates.

DRAFT

Submittal Table 4-1 Retail: Total Uses for Potable and Non-Potable Water — Actual
Water Code Section 10631(d)(1)

Use Type	Additional Description (as needed)	2025 Actual Water Use	
Drop down list May select each use multiple times These are the only use types that will be recognized by the WUEdata online submittal tool		**Potable or Non-Potable** (OPTIONAL) Drop down list	Volume (MG)
Add additional rows as needed			
Single Family		Potable	229
Commercial	Includes Multi-Fam Res and Institutional	Potable	299
Industrial		Potable	1
Distribution System Water Loss		Potable	300
		Subtotal Potable	829.417
		Subtotal Non-Potable	0
		Total	829

DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.

DRAFT

Submittal Table 4-2 Retail: Total Uses for Potable, and Non-Potable Water — Projected
Water Code Section 10631(d)(1)

Use Type	Additional Description (as needed)	Projected Water Use (Report To the Extent that Records are Available)					
Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool		**Potable or Non-Potable** (OPTIONAL) Drop down list	**2030 (MG)**	**2035 (MG)**	**2040 (MG)**	**2045 (MG)**	**2050 opt (MG)**
Add additional rows as needed.							
Single Family		Potable	222.40	220.17	217.97	215.79	
Commercial	Includes Multi-Fam Res and Institutional	Potable	289.70	286.80	283.93	281.10	
Industrial		Potable	1.14	1.13	1.12	1.11	
Distribution System Water Loss	Estimated at 2025 loss 36%	Potable	291	288	286	283	
		Subtotal Potable	805	797	789	781	0
		Subtotal Non-Potable	0	0	0	0	0
		Total	805	797	789	781	0

DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.

Estimated 25% Loss.

DRAFT

Submittal Table 4-3 Retail: Inclusion in Water Use Projections Water Code Section 10631 (a), 10631 (d)(4)(A), and 10631 (d)(4)(B)	
Are Future Water Savings Included in Projections? **Drop down list (y/n)**	No
If "Yes" to above, **state the section or page number**, in the cell to the right, where citations of the codes, ordinances, or otherwise are utilized in demand projections are found. ***Optional*** Suppliers may complete Optional Submittal Table 4-4 R to quantify the expected savings.	
Are Lower Income Residential Demands Included In Projections? **Drop down list (y/n)**	Yes
Optional If the method for accounting Lower Income Residential Demands has been included, provide page number where this accounting can be found.	
DWR NOTES: Additional guidance is provided in Appendix K.	
NOTES:	

DRAFT

Optional Submittal Table 4-4 Retail: Passive Water Savings Projections Water Code Section 10631(d)(4)(A)					
Description (Codes, Standards, Ordinances, or Plans)	Passive savings				
	2030 (MG)	**2035 (MG)**	**2040 (MG)**	**2045 (MG)**	**2050 opt (MG)**
Add additional rows as needed					
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.					
NOTES:					

DRAFT

Submittal Table 4-5 Retail: Water Loss Audit Reporting Water Code Section 10631(d)(3)(A)		
Public Water System ID # Reported in Table 2-1 R	Reporting Period	Submitted to DWR Water Loss Audit Program (yes/no)
Report submittal status for all five years for each Public Water System as available. Add rows as needed		
	2020	Yes
	2021	Yes
	2022	Yes
	2023	Yes
	2024	Yes
DWR NOTES: Suppliers will provide a link to the WUEdata submittals of their Water Loss Audit Reports.		
NOTES: Crescent Citys water loss audits can be accessed at: https://wuedata.water.ca.gov/secure/Default.asp?		

DRAFT

Submittal Table 4-6 Retail: Progress Towards 2028 Water Loss Standard
Water Code Section 10631(d)(3)(C)

Public Water System ID # Reported in Submittal Table 2-1 R	Did the Water Board Calculate a Water Loss Standard for this Public Water System? (y/n) If no, Supplier will not complete this row.	Real Water Loss					Apparent Water Loss				
		State Water Board Standard		Most Recent AWWA Water Loss Audit			State Water Board Standard		Most Recent AWWA Water Loss Audit		
		2028 Real Water Loss Standard per Unit per day	Units for Real Water Loss Drop down list	Number of Units (Connections or Miles corresponding with units selected)	Volume of Total Real Loss (from AWWA Water Loss Audit) (MG)	Real Water Loss Per Unit per Day	2028 Apparent Water Loss Standard per Unit per Day	Units for Apparent Water Loss	Number of Connections	Volume of Total Apparent Loss (from AWWA Water Loss Audit) (MG)	Apparent Water Loss Per Unit per Day
Add additional rows as needed.											
CA0810001	Yes	23	Gallons per Service Connection per Day (GPSCD)	3757	148	107.9	14.4	Gallons per Service Connection per Day (GPSCD)	3757	20	14.6
								Gallons per Service Connection per Day (GPSCD)			
								Gallons per Service Connection per Day (GPSCD)			

Water Board's Calculated Water Loss Standards

DWR NOTES: Units of measure (AF, CCF, MG) for Water Loss **MUST** remain consistent with units reported in Submittal Table 2-3. The units reported in Submittal Table 2-3 are used in this table's calculations.

NOTES:

DRAFT

Submittal Table 5-1 Retail: SB X7-7 2020 Target Progress Water Code Section 10608.40						
☐	**Check the box if the Supplier was not an Urban Water Supplier during or before the 2020 UWMP reporting cycle. Proceed to the next table.**					
Was Supplier part of a merger or consolidation since 2020?	Regional Alliance Target or Individual Target? Drop down list	2020 Target	Actual 2020 GPCD	Did Supplier Achieve Targeted Reduction for 2020?	**Only for suppliers that did not meet the Target in 2020** **See DWR NOTES below.**	
					Actual 2025 GPCD (From SB X7-7 Compliance Form)	Did Supplier meet the 2020 Target in 2025?
No	Individual Target	116	112	Yes		NA

DWR NOTES:
Suppliers calculating a 2025 GPCD will need to complete and submit SB X 7-7 Compliance Tables to verify the use of SB X7-7 Methodologies.
Suppliers that were part of a merger or consolidation since 2020 see Chapter 5 and Appendix P for guidance.
NA=Not Applicable

NOTES:

DRAFT

Submittal Table 6-1 Retail: Groundwater Volume Pumped
Water Code Section 10631(4) and 10631(4)(c)

☐	Check the box if the Supplier does not pump groundwater. Proceed to the next table.
☐	Check the box if all or part of the groundwater described below is desalinated. (OPTIONAL)

Groundwater Type **Drop Down List** May use each category multiple times	Potable or Non-Potable (OPTIONAL) **Drop down list**	Location or Basin Name	2021 (MG)	2022 (MG)	2023 (MG)	2024 (MG)	2025 (MG)
Add additional rows as needed							
Alluvial Basin	Potable	Smith River	805.23	739.56	780.052	855.84	829.44
		Total	805	740	780	856	829

DWR NOTES:
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.

NOTES

DRAFT

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area Water Code Section 10633(a)				
☐	Check the box if there is no wastewater collection system. Proceed to the next table.			
100%	Percentage of 2025 service area served by wastewater collection system (OPTIONAL)			
100%	Percentage of 2025 service area population served by wastewater collection system (OPTIONAL)			
Wastewater Collection			**Recipient of Collected Wastewater**	
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? OPTIONAL **Drop Down List**	Volume of Wastewater Collected from UWMP Service Area 2025 (MG)	Name of Wastewater Treatment Plant (WWTP) and Place ID Number **Drop down list**	Is WWTP Located Within UWMP Area? **Drop Down List**
Add additional rows as needed				
City of Crescent City	Metered	535	Crescent City WWTP, Place ID 216106	Yes
Total Wastewater Received from UWMP Service Area in 2025:		535		
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3. **Additional Guidance**: See Appendix M, Section M.21 for detailed guidance on this table.				
NOTES:				

DRAFT

Submittal Table 6-3 Retail: Wastewater Treatment and Outcomes Within UWMP Service Area
Water Code Section 10633(b)

☐	**Check the box if no wastewater is treated or disposed of within the UWMP service area.** Proceed to the next table.

Wastewater Treatment Plant Name and Place ID Number **Drop down list**	Does This Plant Treat Wastewater Generated Outside the UWMP Service Area? (OPTIONAL) **Drop down list**	2025 Volume of Wastewater Received from UWMP Service Area (As Reported in Submittal Table 6-2 R) (MG)	Total 2025 Volume of Water Treated (MG)	**2025 Outcomes of Treated Wastewater**										
				Water Recycled Within UWMP Service Area (enter data as applicable)		**Water Recycled Outside of UWMP Service Area** (enter data as applicable)		**Effluent Discharge that is not a Permitted Recycled Water Use** (enter data as applicable)		**Required Discharge for Instream Flow** (enter data as applicable)		**Delivered to Another Entity for Additional Treatment** (enter data as applicable)		
				Treatment Level **Drop down list**	Volume (MG)	Treatment Level **Drop down list**	Volume (MG)	Treatment Level **Drop down list**	Volume (MG)	Treatment Level **Drop down list**	Volume (MG)	Treatment Level **Drop down list**	Volume (MG)	Name of other entity
Add additional rows as needed														
Crescent City WWTP, Place ID 216106	Yes	535	353											
Total		535	353		0		0		0		0		0	

DWR NOTES:
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.
IPR: Indirect Potable Reuse would have the treatment level of its end use requirement in the Level of Treatment drop-down.
Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table.

NOTES:

DRAFT

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area
Water Code Section 10633 (c),(d),(e)

☑	Check box if recycled water is not used and is not planned for use within the service area of the supplier. The supplier will only complete the column on "Potential Recycled Water Use" and submit an accompanying narrative on the feasibility of that potential recycled water use.

Name(s) of Facility/ies Producing (Treating) the Recycled Water (OPTIONAL) :	
Name of Supplier Operating the Recycled Water Distribution System (OPTIONAL) :	
Volume of Supplemental Water Added in 2025 (OPTIONAL) :	
Source of 2025 Supplemental Water (OPTIONAL) :	

Use Type **Drop down list**	**Potable or Non-Potable** (after treatment if treated) (OPTIONAL) Drop down list	Additional Information (as needed)	2025 (MG)	2030 (MG)	2035 (MG)	2040 (MG)	2045 (MG)	2050 (MG)	**Potential Recycled Water Use**	
									Volume	Narrative page number (OPTIONAL)
Add additional rows as needed										
		Subtotal Potable	0	0	0	0	0	0	0	
		Subtotal Non-Potable	0	0	0	0	0	0	0	
		Total	0	0	0	0	0	0	0	0

DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.
Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table.
Potential recycled water use: a description of the feasibility of these uses must be included in the narrative.
Multiple Producers: If you have multiple recycled water producers, submit a separate table for each.

NOTES:

DRAFT

Submittal Table 6-5 Retail: 2020 UWMP Recycled Water Use Projection Compared to 2025 Actual
Water Code Section 10633(e)

☑	Check the box if recycled water was not used in 2025 nor previously projected for use in 2020. Proceed to the next table.

Use Type Drop Down list	2020 Projection for 2025 (MG)	2025 Actual Use (MG)
Add additional rows as needed		
Total	0	0

DWR NOTES:
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure reported in Submittal Table 2-3
Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table.

NOTES:

DRAFT

Submittal Table 6-6 Retail: Methods to Encourage Future Recycled Water Use Water Code Section 10633(f)			
☑	Check the box if the Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.		
	Provide page location of narrative in the UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use (MG)
Add additional rows as needed			
		Total (MG)	0
		Unit Conversion to AF	0

DWR NOTES:
Units of measure (AF, CCF, MG) MUST remain consistent with units reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.
The unit conversion to Acre Feet addresses the Water Code's requirement that this value be provided in acre-feet.

NOTES:

DRAFT

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs Water Code Section 10631(f)							
☐	Check the box if there are no expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Proceed to the next table.						
☐	Check the box if some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.						
	Provide page location of narrative in the UWMP						
Name of Future Projects or Programs	Joint Project with other suppliers?		Additional Description (as needed)	**Potable or Non-Potable** (after treatment if treated) (OPTIONAL) Drop Down list	Planned Implementation Year	Planned for Use in Year Type **Drop Down List**	Expected Increase in Water Supply to Supplier (This may be a range) (MG)
	Drop Down List (yes/no)	If Yes, Supplier Name					
Add additional rows as needed							
Additional Water Well	No		Currently evaluating the potential for a new goundwater production well on city owned property.	Potable	2027	Average Year	Not known a tthis point.
DWR NOTES: **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure reported in Submittal Table 2-3.							
NOTES:							

DRAFT

Submittal Table 6-8 Retail: Water Supplies — Actual Water Code Section 10631(b)				
Water Supply		**2025**		
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool	Additional Description (as needed)	**Potable or Non-Potable** (after treatment if treated) (OPTIONAL) Drop Down list	Actual Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)
Add additional rows as needed				
Groundwater (not desalinated)	Smith River Underflow	Potable	829	
		Subtotal Potable	829	0
		Subtotal Non-Potable	0	0
		Total	829	0
DWR NOTES: **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3. **Total Entitlement:** e.g. Water Right, Groundwater Allocation, Contracted Amount.				
NOTES:				

DRAFT

Submittal Table 6-9 Retail: Water Supplies — Projected
Water Code Section 10631 (b)

Water Supply			Projected Water Supply (Report to the Extent Practicable)									
			2030		2035		2040		2045		2050 (opt)	
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool	Additional Detail on Water Supply	**Potable or Non-Potable** (after treatment if treated) (OPTIONAL) Drop Down list	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)	Reasonably Available Volume (MG)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (MG)
Add additional rows as needed												
Groundwater (not desalinated)		Potable	1,194		1,194		1,194		1,194			
Subtotal Potable			1,194	0	1,194	0	1,194	0	1,194	0	0	0
Subtotal Non-Potable			0	0	0	0	0	0	0	0	0	0
Total			1,194	0	1,194	0	1,194	0	1,194	0	0	0

DWR NOTES:

Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.

Total Entitlement: e.g. Water Right, Groundwater Allocation, Contracted Amount.

NOTES:

DRAFT

Optional Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment)

Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2024-2025, use 2025	Available Supplies if Year Type Repeats	
		☐	Check the box if quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. **Location:** [insert location from UWMP]
		Quantification of available supplies is provided in this table as either volume only, percent only, or both.	
		Volume Available (MG)	**% of Average Supply**
Average Year	2019	53655	100%
Single-Dry Year	2021	37230	70%
Consecutive Dry Years 1st Year	2018	43877	82%
Consecutive Dry Years 2nd Year	2019	53549	100%
Consecutive Dry Years 3rd Year	2020	46943	88%
Consecutive Dry Years 4th Year	2021	37270	70%
Consecutive Dry Years 5th Year	2022	56378	93%

DWR NOTES: Supplier may use multiple versions of Submittal Table 7-1 R if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a Supplier uses multiple versions of Submittal Table 7-1 R, in the "Note" section of each submittal table, state that multiple versions of Submittal Table 7-1 R are being used and identify the particular water source that is being reported in each submittal table.
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table reports the units of measure reported in Submittal Table 2-3.

NOTES:

DRAFT

Submittal Table 7-2 Retail: Normal Year Supply and Use Comparison Water Code Section 10635 (a)					
	2030 (MG)	**2035 (MG)**	**2040 (MG)**	**2045 (MG)**	**2050 (MG)**
Supply totals (autofill from Submittal Table 6-9 R)	1,194	1,194	1,194	1,194	0
Use totals (autofill from Submittal Table 4-2 R)	805	797	789	781	0
Surplus/(shortfall)	389	397	405	413	0
OPTIONAL Planned WSCP Actions					
WSCP - supply augmentation benefit					
WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)					
DWR NOTES : Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES:					

DRAFT

Submittal Table 7-3 Retail: Single Dry Year Supply and Use Comparison Water Code Section 10635(a)					
	2030 (MG)	2035 (MG)	2040 (MG)	2045 (MG)	2050 (MG)
Supply totals	1,194	1,194	1,194	1,194	0
Use totals	805	797	789	781	0
Surplus/(shortfall)	389	397	405	413	0
OPTIONAL Planned WSCP Actions					
WSCP - supply augmentation benefit					
WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)					
DWR NOTES : Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES					

DRAFT

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Use Comparison Water Code Section 10635(a)						
		2030 (MG)	2035 (MG)	2040 (MG)	2045 (MG)	2050 (MG)
First year	Supply totals	1,194	1,194	1,194	1,194	0
	Use totals	805	797	789	781	0
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
Second year	Supply totals	1,194	1,194	1,194	1,194	
	Use totals	805	797	789	781	
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
Third year	Supply totals	1,194	1,194	1,194	1,194	
	Use totals	805	797	789	781	
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
Fourth year	Supply totals	1,194	1,194	1,194	1,194	
	Use totals	805	797	789	781	
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
Fifth year	Supply totals	1,194	1,194	1,194	1,194	
	Use totals	805	797	789	781	
	Surplus/(shortfall)	389	397	405	413	0
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
	Revised Surplus/(shortfall)					
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.						
NOTES:						

DRAFT

Submittal Table 7-5 Retail: Five-Year Drought Risk Assessment Water Code Section 10635(b)(3)	
2026	**Total**
Total Water Use (MG)	824
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	370
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
2027	**Total**
Total Water Use (MG)	820
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	374
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
2028	**Total**
Total Water Use (MG)	815
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	379
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
2029	**Total**
Total Water Use (MG)	810
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	384
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
2030	**Total**
Total Water Use (MG)	805
Total Supplies (MG)	1,194
Surplus/Shortfall w/o WSCP Action	389

DRAFT

OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (MG)	
WSCP - use reduction savings benefit (MG)	
Revised Surplus/(shortfall)	
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.	
NOTES:	

DRAFT

Submittal Table 8-1: Cross-reference for Standard vs Supplier Shortage Levels Water Code Section 10632(a)(3)(B)			
☐	Check the box if the Supplier uses the Standard six levels of water shortage. Proceed to the next table.		
Standard Shortage Levels	**Percent Shortage Range**	**Suppliers Shortage Levels**	**Percent Shortage Range**
1	Up to 10%	1	20
2	Up to 20%	1	20
3	Up to 30%	2	30
4	Up to 40%	3	50
5	Up to 50%	3	50
6	>50%	4	>50
NOTES:			

DRAFT

Submittal Table 8-2 Retail: Supply Augmentation and Other Actions Water Code Section 10632(a)(4)(A),(C) and (E)				
No	Is the Supplier completing this table using the standard six levels? (yes/no)			
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier **Drop down list** These are the only categories that will be accepted by the WUEdata online submittal tool	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (MG)	
Add additional rows as needed				
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.				
NOTES:				

DRAFT

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B),(D), and (E)					
No	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions **Drop down list** These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? **For Retail Suppliers Only** Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (MG)		
Add additional rows as needed					
1	Landscape - Other landscape restriction or prohibition	Percentage	10%		
2	Landscape - Other landscape restriction or prohibition	Percentage	20%		
3	Other - Prohibit use of potable water for washing hard surfaces	Percentage	30%		
4	Landscape - Limit landscape irrigation to specific days	Percentage	40%		
5	Landscape - Limit landscape irrigation to specific days	Percentage	50%		
6	Landscape - Prohibit all landscape	Percentage	>50%		
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES:					

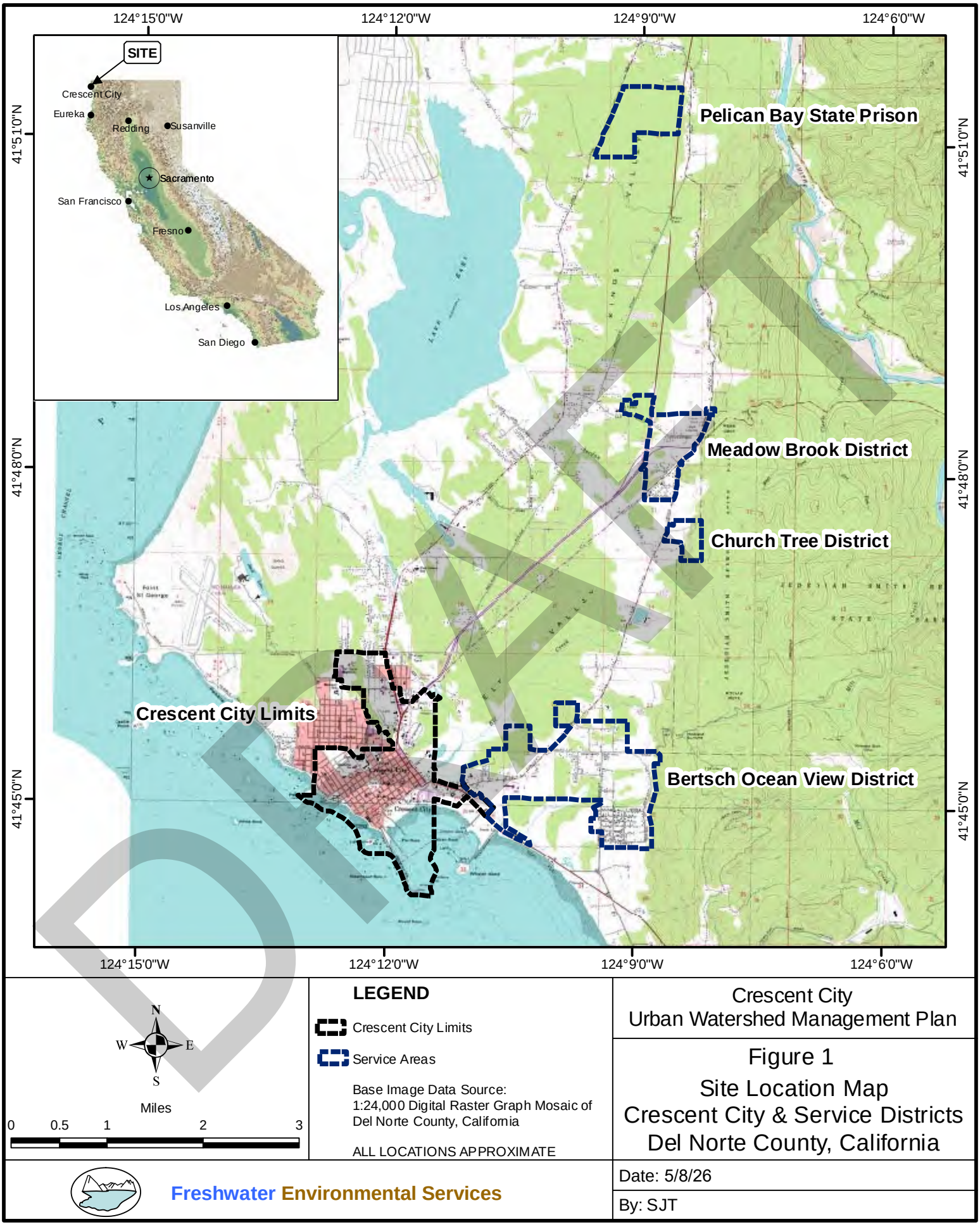
DRAFT

Submittal Table 10-1 Retail: Notification to Cities and Counties Water Code Section 10621(b) and 10642		
City Name	60 Day Notice **Drop Down (yes/no)**	Notice of Public Hearing **Drop Down (yes/no)**
Add additional rows as needed		
County Name **Drop Down List**	60 Day Notice **Drop Down (yes/no)**	Notice of Public Hearing **Drop Down (yes/no)**
Add additional rows as needed		
Del Norte County	Yes	Yes
NOTES:		

DRAFT

FIGURES

DRAFT



N
W E
S

Miles

0 0.5 1 2 3

LEGEND

Crescent City Limits

Service Areas

Base Image Data Source:
1:24,000 Digital Raster Graph Mosaic of
Del Norte County, California

ALL LOCATIONS APPROXIMATE

Crescent City
Urban Watershed Management Plan

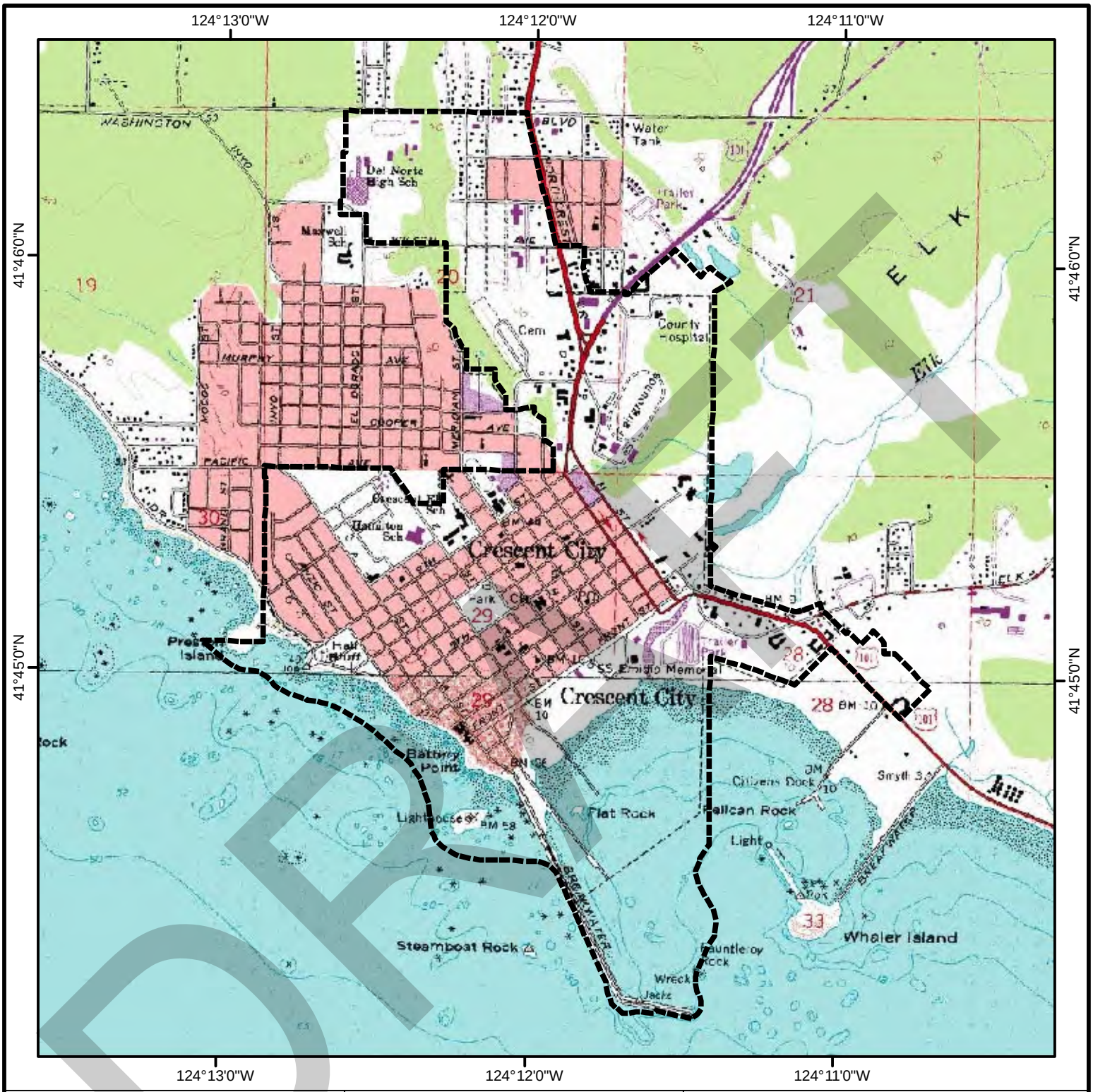
Figure 1

Site Location Map
Crescent City & Service Districts
Del Norte County, California

Freshwater Environmental Services

Date: 5/8/26

By: SJT



N
W E
S

Feet
0 500 1,000 2,000 3,000 4,000

LEGEND

Crescent City Limits

Base Image Data Source:
1:24,000 Digital Raster Graph Mosaic of Del Norte County, California

ALL LOCATIONS APPROXIMATE

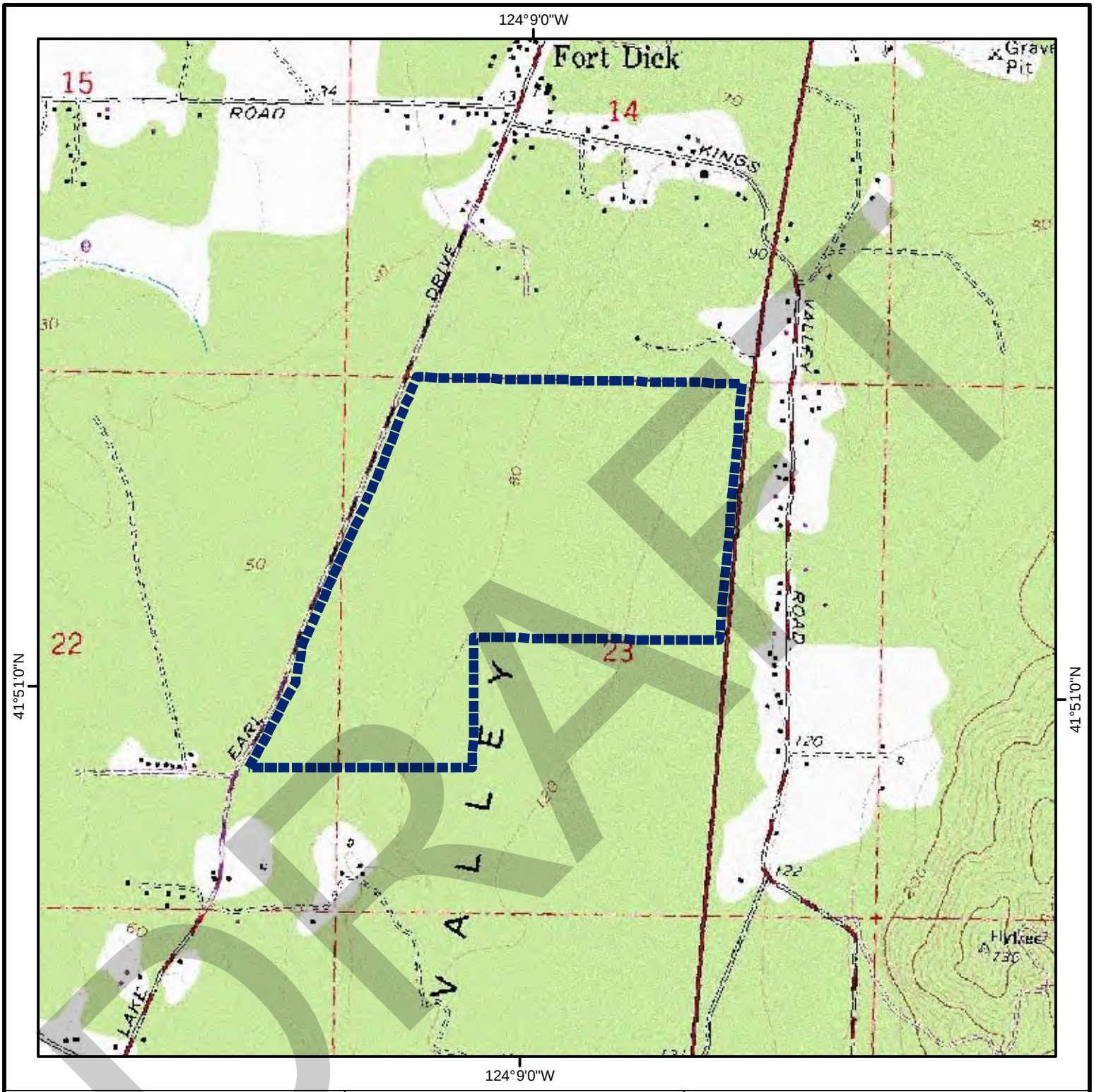
Crescent City
Urban Watershed Management Plan

Figure 2
Site Location Map
Crescent City
Del Norte County, California

Freshwater Environmental Services

Date: 5/8/26

By: SJT



DRAFT

N
W E
S

Feet

0 500 1,000 2,000 3,000

LEGEND

Pelican Bay State Prison

Base Image Data Source:
1:24,000 Digital Raster Graph Mosaic of
Del Norte County, California

ALL LOCATIONS APPROXIMATE

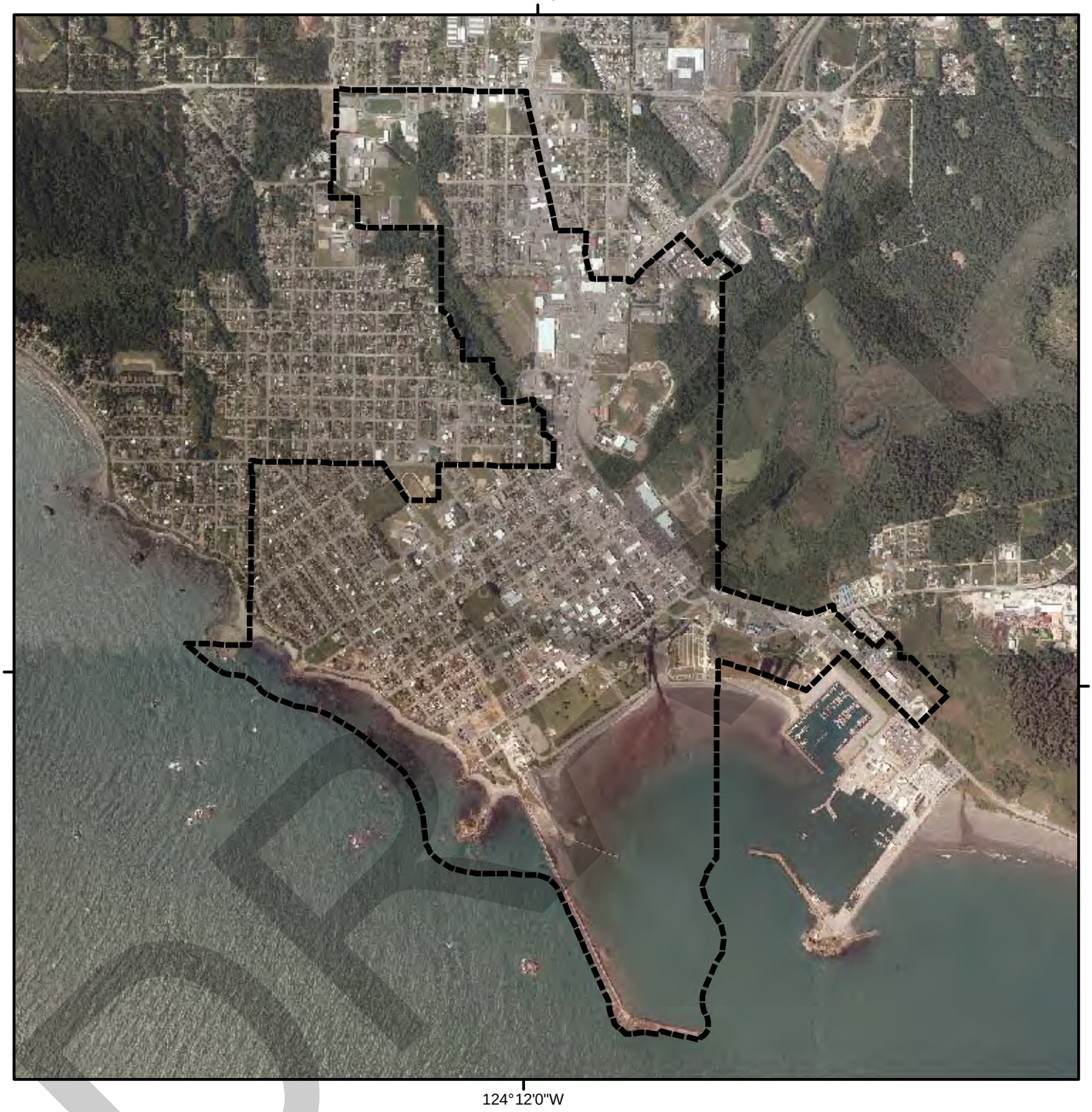
Crescent City
Urban Watershed Management Plan

Figure 3
Site Location Map
Pelican Bay State Prison
Del Norte County, California

Freshwater Environmental Services

Date: 5/8/26

By: SJT



N
W E
S

Feet
0 500 1,000 2,000 3,000 4,000

LEGEND

Crescent City Limits

Base Image Data Source: USDA-FSA Aerial Photography Field Office, Dated June 12, 2010.

ALL LOCATIONS APPROXIMATE

Crescent City
Urban Watershed Management Plan

Figure 4
Site Location Map
Crescent City
Del Norte County, California

Freshwater Environmental Services

Date: 5/8/26

By: SJT



N
W E
S

Feet

0 500 1,000 2,000 3,000

LEGEND

Pelican Bay State Prison

Base Image Data Source: USDA-FSA Aerial Photography Field Office, Dated June 12, 2010.

ALL LOCATIONS APPROXIMATE

Crescent City
Urban Watershed Management Plan

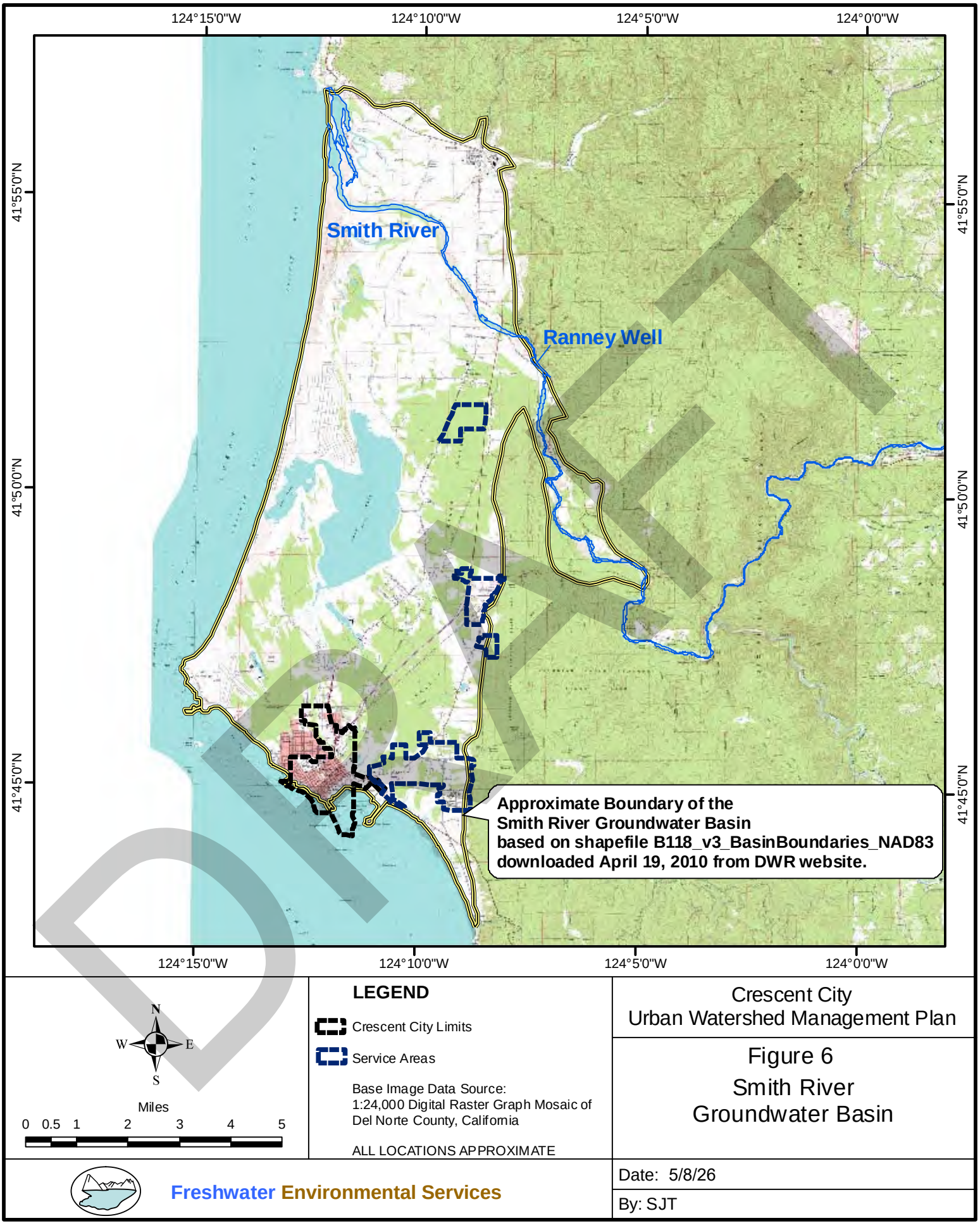
Figure 5

Site Location Map
Pelican Bay State Prison
Del Norte County, California

Freshwater Environmental Services

Date: 5/8/26

By: SJT



N
W E
S

Miles
0 0.5 1 2 3 4 5

LEGEND

Crescent City Limits

Service Areas

Base Image Data Source:
1:24,000 Digital Raster Graph Mosaic of
Del Norte County, California

ALL LOCATIONS APPROXIMATE

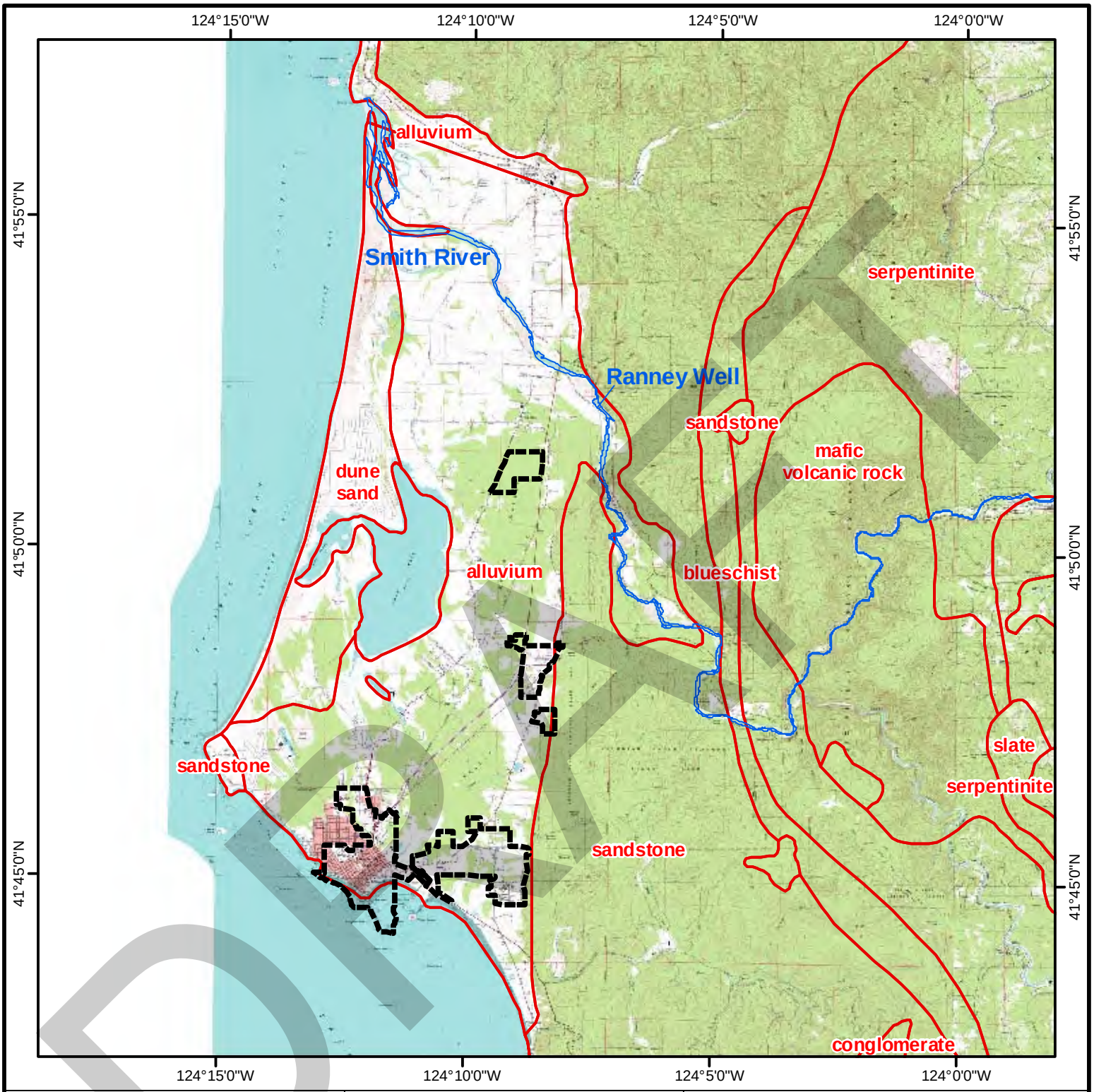
Crescent City
Urban Watershed Management Plan

Figure 6
Smith River
Groundwater Basin

Freshwater Environmental Services

Date: 5/8/26

By: SJT



DRAFT

N
W E
S

Miles
0 0.5 1 2 3 4 5

LEGEND

Service Areas

Geologic data obtained in digital format based on Geologic Map of California by Jennings (1977) published by California Geological Survey.

Base Image Data Source:
1:24,000 Digital Raster Graph Mosaic of Del Norte County, California.
Original scale 1:750,000
ALL LOCATIONS APPROXIMATE

Crescent City
Urban Watershed Management Plan

Figure 7

Geologic Map

Freshwater Environmental Services

Date: 5/8/26

By: SJT

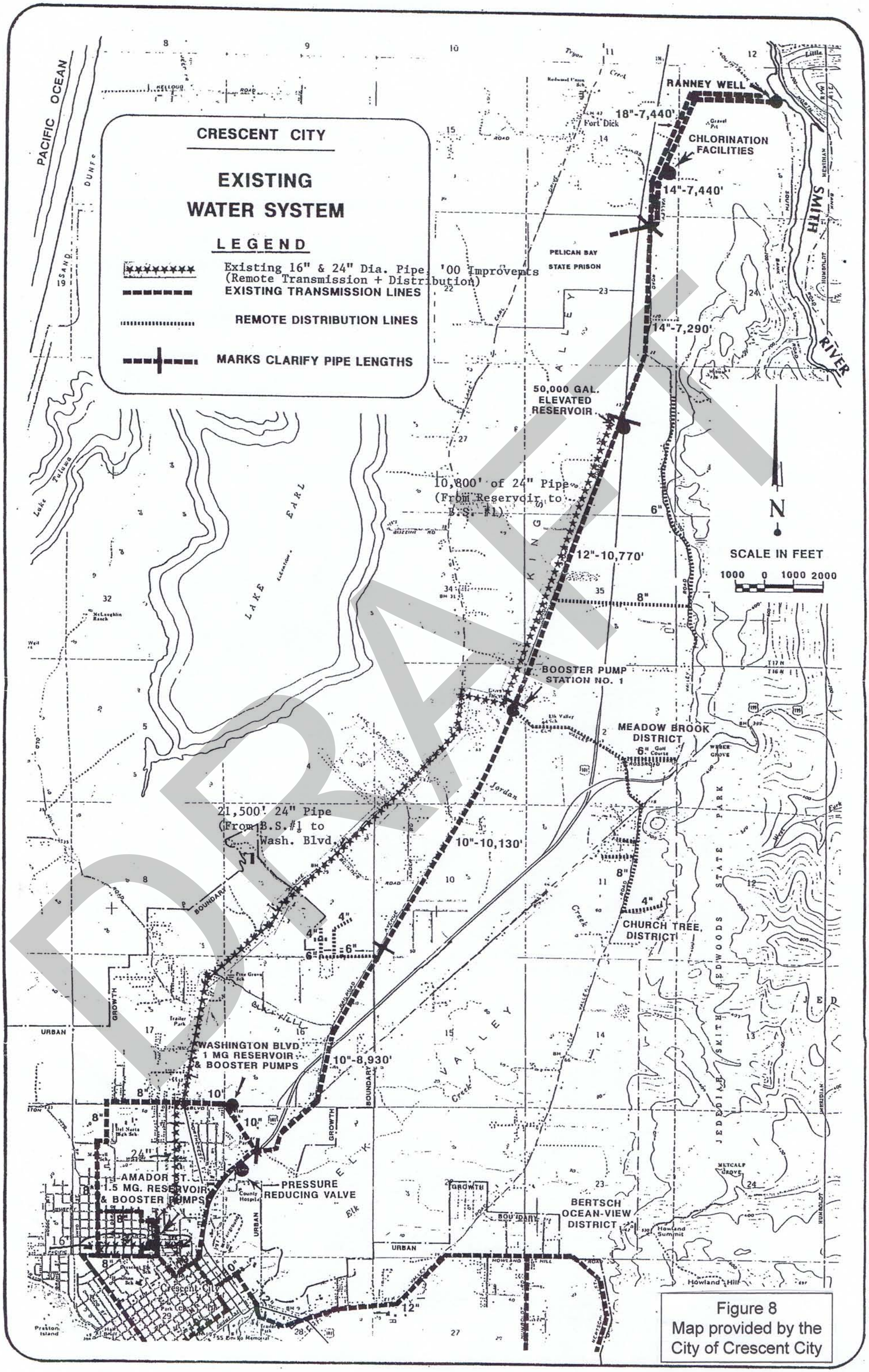


Figure 8
Map provided by the City of Crescent City

DRAFT

APPENDIX A

2025 UWMP CHECKLIST

DRAFT

Retail (x = required)	Wholesale (x = required)	Order	2025 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	Relevant Submittal Table	2025 UWMP Location
x	x	1	Chapter 1	10615	A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities.	Introduction and overview	n/a	
x	x	1	Chapter 1	10630.5	Each plan shall include a simple description of the Supplier's plan including water availability, future requirements, a strategy for meeting needs, and other pertinent information. Additionally, a Supplier may also choose to include a simple description at the beginning of each chapter.	Plan preparation	n/a	
x	x	2.1	Section 2.1	10620(b)	Every person that becomes a Supplier shall adopt UWMP within one year after it has become a Supplier.	Plan preparation	n/a	
x	n/a	2.5	Section 2.5	10644	Supplier shall report the Public Water Systems number, volume of delivered water, and number of connections that are included in this UWMP.	Plan preparation	2-1	
x	x	2.5	Section 2.5	10644	Supplier shall report if this UWMP is an individual UWMP and whether the Supplier belongs to a regional UWMP or regional alliance.	Plan preparation	2-2	
x	x	2.5	Section 2.5	10644	Supplier shall report whether the data is in fiscal or calendar years and the units of measure used for reporting water volumes.	Plan preparation	2-3	
x	x	2.4	Section 2.4	10642	Provide supporting documentation that the Supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan and contingency plan.	Plan preparation	n/a	
x	x	2.4	Section 2.4.2	10620(d)(3)	Coordinate the preparation of its plan with other appropriate agencies in the area, including other Suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	Plan preparation	n/a	
x	n/a	2.4	Section 2.4.1	10631(h)	Retail Suppliers will include documentation that they have provided their Wholesale Supplier(s)—if any—with water use projections from that source.	Plan preparation	2-4 R	
n/a	x	2.4	Section 2.4.1	10631(h)	Wholesale Suppliers will provide their Suppliers with identification and quantification of the existing and planned sources of water available from the Wholesale Supplier to the Supplier during various water year types.	Plan preparation	2-4 W	n/a
x	x	3	Chapter 3.0	10631(a)	Describe the Supplier service area.	System description	n/a	
x	x	3.3	Section 3.3	10631(a)	Describe the climate of the Supplier's service area.	System description	n/a	
x	x	3.4	Section 3.4.1	10631(a)	Provide the current and projected service area populations for 2030, 2035, 2040, 2045 and optionally 2050.	System description	3-1	
x	x	3.4	Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the Supplier's water management planning.	System description	n/a	
x	x	3.5	Section 3.5	10631(a)	Describe the land uses within the service area… include the current and projected land uses within the existing or anticipated service area affecting the Supplier's water management planning. Describe the land uses within the service area.	System description and baselines	n/a	
x	Optional	4.2	Sections 4.2.3 and 4.2.4	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System water use	4-1 and 4-2	
x	Optional	4.3	Section 4.3.1	10631(d)(3)(A)	Report the distribution system water loss for each of the five years preceding the plan update.	System water use	4-5	
x	n/a	4.3	Section 4.3.2	10631(d)(3)(C)	Retail Suppliers shall provide data to show the distribution loss standards were met.	System water use	4-6	
x	n/a	4.2	Section 4.2.5.4	10631.1(a)	Include projected water use needed for lower income housing projected in the service area of the Supplier.	System water use	4-3	
x	n/a	4.2	Section 4.2.5.3	10631(d)(4)(A)	In projected water use, include estimates of water savings from adopted codes, plans, and other policies or laws.	System water use	4-3	
x	n/a	4.2	Section 4.2.5.3	10631(d)(4)(B)	Provide citations of codes, standards, ordinances, or plans used to make water use projections.	System water use	4-3	
x	n/a	4.2	Section 4.2.5.3	10631(d)(4)(B)(ii)	To the extent that a Supplier reports the information described in subparagraph (A), an urban water Supplier shall… Indicate the extent that the water use projections consider savings from codes, standards, ordinances, or transportation and land use plans. Water use projections that do not account for these water savings shall be noted of that fact.	System water use	4-3	
x	x	4.2	Section 4.2.5.6	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System water use	n/a	
n/a	x	5.1	Section 5.1	10608.36	Wholesale Suppliers shall include an assessment of present and proposed future measures, programs, and policies to help their Retail Suppliers achieve targeted water use reductions.	Baselines and targets	n/a	
x	n/a	5.2	Section 5.2	10608.4	Retail Suppliers shall report on their compliance in meeting their water use targets. Reporting requirements will vary depending on whether the Supplier: - Was considered an urban retail water supplier in 2020, - Met its 2020 target in 2020, or - Was part of a merger or consolidation since 2020. Chapter 5 Subsections 5.2.1, 5.2.2, and 5.2.3 address each of these situations.	Baselines and targets	5-1	
x	x	6.1	Section 6.1	10631(b)(2)	When multiple sources of water supply are identified, describe the management of each supply in relationship to other identified supplies.	System supplies	n/a	
x	x	6.1	Sections 6.1 and 6.2	10631(b)(1)	Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought, including changes in supply due to climate change.	System supplies	n/a	
x	x	6.2	Section 6.2.2	10631(b)(4)(C)	Indicate whether groundwater is an existing or planned source of water available to the Supplier. If groundwater is identified as an existing or planned source of water… (include) a detailed description and analysis of the location, amount and sufficiency of groundwater pumped by the Supplier for the past five years.	Water supplies and recycled water	6-1	
x	x	6.2	Section 6.2.2	10631(b)(4)(A)	Indicate whether a groundwater sustainability plan or groundwater management plan has been adopted by the Supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	System supplies	n/a	
x	x	6.2	Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System supplies	n/a	
x	x	6.2	Section 6.2.2	10631(b)(4)(B)	Indicate if the basin has been adjudicated and include a copy of the court order or decree and a description of the amount of water the Supplier has the legal right to pump.	System supplies	n/a	
x	x	6.2	Section 6.2.2	10631(b)(4)(B)	For unadjudicated basins… (include) information as to whether DWR has identified the basin as a high- or medium-priority basin in the most current official departmental bulletin.	Water supplies and recycled water	n/a	
x	x	6.2	Section 6.2.2	10631(b)(4)(B)	For unadjudicated basins… describe efforts by the Supplier to coordinate with sustainability or groundwater agencies to achieve sustainable groundwater conditions.	Water supplies and recycled water	n/a	
x	x	6.2	Section 6.2.2.	10631(b)(4)(C)	If groundwater is identified as an existing or planned source of water… (include) a detailed description and analysis of the location, amount and sufficiency of groundwater pumped by the Supplier for the past five years.	System supplies	n/a	
x	x	6.2	Section 6.2.2	10631(b)(4)(D)	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	System supplies	6-9	
x	x	6.1	Section 6.1	10631(b)	Identify and quantify the existing and planned sources of water available for 2025, 2030, 2035, 2040, 2045 and optionally 2050.	System supplies	6-8 and 6-9	
x	x	6.2	Section 6.2.7	10631(c)	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	System supplies	n/a	
x	n/a	6.2	Section 6.2.5	10633(a)	Describe the wastewater collection and treatment systems in the Supplier's service area with quantified amount of collection and treatment and the disposal methods.	System supplies (recycled water)	6-2	
x	x	6.2	Section 6.2.5	10633(b)	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	System supplies (recycled water)	6-3	
x	x	6.2	Section 6.2.5	10633(c)	Describe the recycled water currently being used in the Supplier's service area.	System supplies (recycled water)	6-4	
x	x	6.2	Section 6.2.5	10633(d)	Describe and quantify the potential uses of recycled water and provide a determination of the technical and economic feasibility of those uses.	System supplies (recycled water)	6-4	
x	x	6.2	Section 6.2.5	10633(e)	Describe the projected use of recycled water within the Supplier's service area at the end of 5, 10, 15, and 20 years, and describe the actual use of recycled water in comparison to uses previously projected.	System supplies (recycled water)	6-4 and 6-5	
x	x	6.2	Section 6.2.5	10633(f)	Describe the actions that may be taken to encourage the use of recycled water and the projected results of these actions in terms of acre-feet of recycled water used per year.	System supplies (recycled water)	6-6	
x	x	6.2	Section 6.2.5	10633(g)	Provide a plan for optimizing the use of recycled water in the Supplier's service area.	System supplies (recycled water)	n/a	
x	x	6.2	Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System supplies	6-7	
x	x	6.2	Section 6.2.10	10631(f)	Describe the expected future water supply projects and programs that may be undertaken by the water Supplier to address water supply reliability in average, single-dry, and for a period of drought lasting five consecutive water years.	System supplies	6-7	
x	x	6.3	Section 6.3 and Appendix O	10631.2(a)	The UWMP must include energy information, as stated in the code, that a Supplier can readily obtain.	System suppliers, energy intensity	O-1A, O-1B, O-1C, and O-2	
x		7.1	Section 7.1	10634	Provide information on the quality of existing sources of water available to the Supplier and the manner in which water quality affects water management strategies and supply reliability.	Water supply reliability assessment	n/a	
x	x	7.2	Section 7.2	10635(a)	Service Reliability Assessment: Assess the water supply reliability during normal, dry, and a drought lasting five consecutive water years by comparing the total water supply sources available to the Supplier with the total projected water use over the next 20 years.	Water supply reliability assessment	7-2, 7-3, and 7-4	
x	x	7.2	Section 7.2.3	10620(f)	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	Water supply reliability assessment	n/a	
x	x	7.3	Section 7.3	10635(b)	Provide a drought risk assessment as part of information considered in developing the demand management measures and water supply projects.	Water supply reliability assessment	n/a	
x	x	7.3	Section 7.3	10635(b)(1)	Include a description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts five consecutive years.	Water supply reliability assessment	n/a	
x	x	7.3	Section 7.3	10635(b)(2)	Include a determination of the reliability of each source of supply under a variety of water shortage conditions.	Water supply reliability assessment	n/a	
x	x	7.3	Section 7.3	10635(b)(3)	Include a comparison of the total water supply sources available to the Supplier with the total projected water use for the drought period.	Water supply reliability assessment	7-5	
x	x	7.3	Section 7.3	10635(b)(4)	Include considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate change conditions, anticipated regulatory changes, and other locally applicable criteria.	Water supply reliability assessment	n/a	
x	x	8	Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water shortage contingency planning	n/a	
x	x	8	Chapter 8	10632(a)(1)	Provide an analysis of water supply reliability (from Guidebook Chapter 7) in the WSCP.	Water shortage contingency planning	n/a	
x	x	8.2	Section 8.2	10632(a)(2)(A)	Provide the written decision-making process and other methods that the Supplier will use each year to determine its water reliability.	Water shortage contingency planning	n/a	
x	x	8.2	Section 8.2	10632(a)(2)(B)	Provide data and methodology to evaluate the Supplier's water reliability for the current year and one dry year pursuant to factors in the code.	Water shortage contingency planning	n/a	
x	x	8.3	Section 8.3	10632(a)(3)(A)	Define six standard water shortage levels of 10%, 20%, 30%, 40%, 50% shortage, and greater than 50% shortage. These levels shall be based on supply conditions, including percent reductions in supply, changes in groundwater levels, changes in surface elevation, or other conditions. The shortage levels shall also apply to a catastrophic interruption of supply.	Water shortage contingency planning	n/a	
x	x	8.3	Section 8.3	10632(a)(3)(B)	Suppliers with an existing WSCP that uses different water shortage levels must cross reference their categories with the six standard categories.	Water shortage contingency planning	8-1	
x	x	8.4	Section 8.4	10632(a)(4)(A)	Suppliers with WSCPs that align with the defined shortage levels must specify locally appropriate supply augmentation actions.	Water shortage contingency planning	8-2	
x	x	8.4	Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water shortage contingency planning	8-3	
x	x	8.4	Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water shortage contingency planning	8-2	
x	x	8.4	Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition to State-mandated prohibitions are appropriate to local conditions.	Water shortage contingency planning	Table 8-3	
x	x	8.4	Section 8.4	10632(a)(4)(E)	Estimate the extent to which the gap between supplies and demand will be reduced by implementation of the action.	Water shortage contingency planning	8-2 and 8-3	
x	x	8.4	Section 8.4.6	10632.5	The UWMP shall include a seismic risk assessment and mitigation plan.	Water shortage contingency plan	n/a	
x	x	8.5	Section 8.5	10632(a)(5)(A)	Suppliers must describe that they will inform customers, the public and others regarding any current or predicted water shortages.	Water shortage contingency planning	n/a	
x	x	8.5	Section 8.5	10632(a)(5)(B), 10632(a)(5)(C)	Suppliers must describe that they will inform customers, the public and others regarding any shortage response actions triggered or anticipated to be triggered and other relevant communications.	Water shortage contingency planning	n/a	
x	n/a	8.6	Section 8.6	10632(a)(6)	Retail Supplier must describe how it will ensure compliance with and enforce provisions of the WSCP.	Water shortage contingency planning	n/a	
x	x	8.7	Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the Supplier to enforce shortage response actions.	Water shortage contingency planning	n/a	
x	x	8.7	Section 8.7	10632(a)(7)(B)	Provide a statement that the Supplier will declare a water shortage emergency per Water Code Chapter 3, *Water Shortage Emergencies*.	Water shortage contingency planning	n/a	

DRAFT

x	x	8.7	Section 8.7	10632(a)(7)(C)	Provide a statement that the Supplier will coordinate with any city or county within which it provides water for the possible proclamation of a local emergency.	Water shortage contingency planning	n/a	
x	x	8.8	Section 8.8	10632(a)(8)(A)	Describe the potential revenue reductions and expense increases associated with activated shortage response actions.	Water shortage contingency planning	n/a	
x	x	8.8	Section 8.8	10632(a)(8)(B)	Provide a description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions.	Water shortage contingency planning	n/a	
x	n/a	8.8	Section 8.8	10632(a)(8)(C)	Retail Suppliers must describe the cost of compliance with Water Code Chapter 3.3, *Excessive Residential Water Use During Drought*.	Water shortage contingency planning	n/a	
x	n/a	8.9	Section 8.9	10632(a)(9)	Retail Suppliers must describe the monitoring and reporting requirements and procedures that ensure appropriate data are collected, tracked, and analyzed for purposes of monitoring customer compliance.	Water shortage contingency planning	n/a	
x	x	8.10	Section 8.10	10632(a)(10)	Describe reevaluation and improvement procedures for monitoring and evaluation the WSCP to ensure risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented.	Water shortage contingency planning	n/a	
x	n/a	8.11	Section 8.11	10632(b)	Analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.	Water shortage contingency planning	n/a	
x	x	8.12	Section 8.12	10632(c)	Make available the WSCP to customers and any city or county where it provides water within 30 days after adoption of the plan.	Water shortage contingency planning	n/a	
x	n/a	9.1	Sections 9.1	10631(e)(1)	Retail Suppliers shall provide a description of the nature and extent of each demand management measure implemented over the past five years. The description will address specific measures listed in code.	Demand management measures	n/a	
n/a	x	9.2	Sections 9.2	10631(e)(2)	Wholesale Suppliers shall describe specific demand management measures listed in code, their distribution system asset management program, and Supplier assistance program.	Demand management measures	n/a	
x	n/a	10	Chapter 10	10608.26(a)	Retail Suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets (recommended to discuss compliance).	Plan adoption, submittal, and implementation	n/a	
x	x	10.2	Section 10.2.1	10621(b)	Notify, at least 60 days prior to the public hearing, any city or county within which the Supplier provides water that the Supplier will be reviewing the UWMP and considering amendments or changes to the plan.	Plan adoption, submittal, and implementation	10-1	
x	x	10.4	Section 10.4	10621(f)	Each urban water Supplier shall update and submit its 2025 plan to DWR by July 1, 202 6.	Plan adoption, submittal, and implementation	n/a	
x	x	10.2	Sections 10.2.2, 10.3, and 10.5	10642	Provide supporting documentation that the Supplier made the UWMP and WSCP available for public inspection, published notice of the public hearing, and held a public hearing about the UWMP and WSCP.	Plan adoption, submittal, and implementation	n/a	
x	x	10.2	Section 10.2.2	10642	The Supplier is to provide the time and place of the hearing to any city or county within which the Supplier provides water.	Plan adoption, submittal, and implementation	10-1	
x	x	10.3	Section 10.3.2	10642	Provide supporting documentation that the UWMP and WSCP has been adopted as prepared or modified.	Plan adoption, submittal, and implementation	n/a	
x	x	10.4	Section 10.4	10644(a)	Provide supporting documentation that the Supplier has submitted their UWMP to the California State Library.	Plan adoption, submittal, and implementation	n/a	
x	x	10.4	Section 10.4	10644(a)(1)	Provide supporting documentation that the Supplier has submitted their UWMP to any city or county within which the Supplier provides water no later than 30 days after adoption.	Plan adoption, submittal, and implementation	n/a	
x	x	10.4	Sections 10.4.1 and 10.4.2	10644(a)(2)	The UWMP, or amendments to the UWMP, submitted to DWR shall be submitted electronically.	Plan adoption, submittal, and implementation	n/a	
x	x	10.7	Section 10.7.2	10644(b)	If revised, submit a copy of the WSCP to DWR within 30 days of adoption.	Plan adoption, submittal, and implementation	n/a	
x	x	10.5	Section 10.5	10645(a)	Provide supporting documentation that, not later than 30 days after filing a copy of its UWMP with DWR, the Supplier has or will make the plan available for public review during normal business hours.	Plan adoption, submittal, and implementation	n/a	
x	x	10.5	Section 10.5	10645(b)	Provide supporting documentation that, not later than 30 days after filing a copy of its WSCP with DWR, the Supplier has or will make the plan available for public review during normal business hours.	Plan adoption, submittal, and implementation	n/a	
x	x	10.6	Section 10.6	10621(c)	If Supplier is regulated by the Public Utilities Commission, include its plan and contingency plan as part of its general rate case filings.	Plan adoption, submittal, and implementation	n/a	

DRAFT

APPENDIX B

NOTICE OF PREPARATION TO NEIGHBORING MUNICIPALITIES

DRAFT

Office of the City Manager

Eric Wier, City Manager
City of Crescent City
377 J Street
Crescent City, CA 95531

707.464.7483 ext. 10
ewier@crescentcity.org

March 25, 2026

TO: Bertsch Ocean View CSD Board of Directors
Church Tree CSD Board of Directors
Heidi Kuntsal, Del Norte County CDD (FCW1)
Kevin Day, Pelican Bay State Prison

Re: 60-Day Notification of Review of City of Crescent City's 2020 Urban Water Management Plan

The City of Crescent City wishes to inform you that we are in the process of reviewing and revising our 2020 Urban Water Management Plan. We are informing you of this revision because the City of Crescent City supplies water to your district. The Urban Water Management Planning Act requires water agencies to develop Urban Water Management Plans to provide a framework for long-term water planning and informs the public of a supplier's plans for long-term resource planning that ensures adequate water supplies for existing and future demands.

The 2025 Urban Water Management Plan is required to be approved and submitted to the Department of Water Resources before July 1, 2026. We will be holding a public hearing on the draft 2025 Urban Water Management Plan in advance of the adoption. A public hearing notice will be sent to you once the date and time for the hearing are set.

We welcome your participation in the preparation of the City of Crescent City's 2025 Urban Water Management Plan. Please contact me if you would like to participate in the urban water management planning process or if there is another individual within your jurisdiction who should be our primary point of contact.

Sincerely,

Eric Wier

DRAFT

APPENDIX C

CRESCENT CITY WATER SHORTAGE CONTINGENCY PLAN, 2021

DRAFT

CRESCENT CITY
WATER SHORTAGE CONTINGENCY PLAN

Prepared for:
Public Works Department
City of Crescent City
377 J Street
Crescent City, California 95531

June 2021

Prepared by:
Orrin Plocher and Stan Thiesen

of

Freshwater Environmental Services

78 Sunny Brae Center
Arcata, California 95521
Phone (707) 839-0091

DRAFT

TABLE OF CONTENTS

LIST OF APPENDICES ii
1.0 INTRODUCTION 1
1.1 Purpose 2
1.2 State Regulations and Planning Requirements 2
2.0 WATER SUPPLY RELIABILTIY ANALYSIS 3
3.0 ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT PROCEDURES 8
3.1 Decision Making Process 8
3.2 Data and Methodologies 9
4.0 CATASTROPHIC INTERRUPTION OF WATER SUPPLY 10
5.0 STANDARD WATER SHORTAGE STAGES 11
5.1 Rationing Stages and Demand Reduction Goals 11
5.2 Shortage Response Actions 12
5.3 Communication Protocols 14
5.4 Compliance and Enforcement 14
5.5 Legal Authority 14
6.0 FINANCIAL CONSEQUENCES OF WSCP ACTIVATION 15
7.0 MONITORING AND REPORTING 16
8.0 WSCP REFINEMENT PROCEDURES 17
9.0 SPECIAL WATER FEATURE DISTINCTION 18
10.0 PLAN ADOPTION, SUBMITTAL, AND AVAILABILITY 19

DRAFT

LIST OF APPENDICES

APPENDIX A	CALIFORNIA WATER CODE SECTION 350-359
APPENDIX B	CALIFORNIA WATER CODE SECTION 10632

DRAFT

1.0 INTRODUCTION

Crescent City (the City) is located on Hwy 101 on the Northern California coast about 20 miles south of the Oregon border and is the only incorporated city in Del Norte County. Crescent City is approximately 1.4 square miles in size. Del Norte County is characterized by rugged mountains split by meandering streams and rivers that flow to the ocean. It has a rugged, "untamed" nature about it, with sequoia/redwood forests prevalent throughout the area.

Based on the GIS analysis of 2000 US Census Bureau data the population of the Crescent City water service area was 16,968, including the Pelican Bay State Prison population. Based on the GIS analysis of 2010 US Census Bureau data the population of the Crescent City water service area was 17,840 including the Pelican Bay State Prison population.

Population from 1994-2009 and 2011-2020 are based on the persons per connection. Projections of populations from 2021-2045 are based on California Department of Finance (CA DOF) the projected population growth for the planning period (2021-2045) and listed below:

- 2021-2025, -0.49% per year,
- 2026-2030, -0.54% per year,
- 2031-2035, -0.45% per year,
- 2036-2040, -0.36% per year, and
- 2041-2045, -0.27% per year

The City supplies water to three water districts as well as customers in the urban services area and within the City's jurisdictional area. The districts hire by contract the City crews and staff to maintain their system and to perform accounting. The districts are Meadowbrook, Church Tree Community Service District, and Bertsch Ocean View Community Service District.

The City of Crescent City's only water source is provided by Smith River underflow associated with the Smith River Plain Groundwater Basin. The Smith River Plain Groundwater Basin provides an abundant supply of high-quality fresh water. The drainage basin of the Smith River, which covers about 700 square miles, produces runoff of about 2.9 million acre-feet per year (AFY) (944,265 million gallons per year) making it the highest water-producing drainage in California based on runoff per square mile.

Crescent City supplies water to 4,636 active connections (2020). In 2020, a total of 833 million gallons of water was distributed to the City's customer base.

DRAFT

1.1 Purpose

The City of Crescent City, California has prepared this Water Shortage Contingency Plan as a response to the severe drought of 2012-2016, to prepare for potential future local, regional, and State water shortage conditions, and to fulfill a requirement of the Urban Water Management Planning Act.

1.2 State Regulations and Planning Requirements

The California Water Code contains two provisions for California water supplies related to water shortage contingency planning.

California Water Code Section 350-359 provides the authority for a governing body to declare water shortage emergencies (Appendix A). Upon the declaration of a water shortage emergency, the local agency is provided with broad powers to implement and enforce regulations and restrictions for managing water shortage conditions. Priority is given to water needed for domestic, sanitation and fire protection purposes. Discrimination is not allowed between water users using water for the same purpose or purposes. Declaration of a water shortage emergency requires a public hearing with a public notice in a newspaper seven days prior to the hearing (California Water Code §352). The public hearing and public notice is not required in the event of a breakage or failure of the water distribution system causing an immediate emergency (California Water Code §351).

The Urban Water Management Planning (UWMP) Act requires urban water suppliers to prepare an urban water shortage contingency plan that includes several elements (California Water Code §10632, contained in Appendix B). This Water Shortage Contingency Plan addresses each of the required elements in the urban water shortage contingency plan.

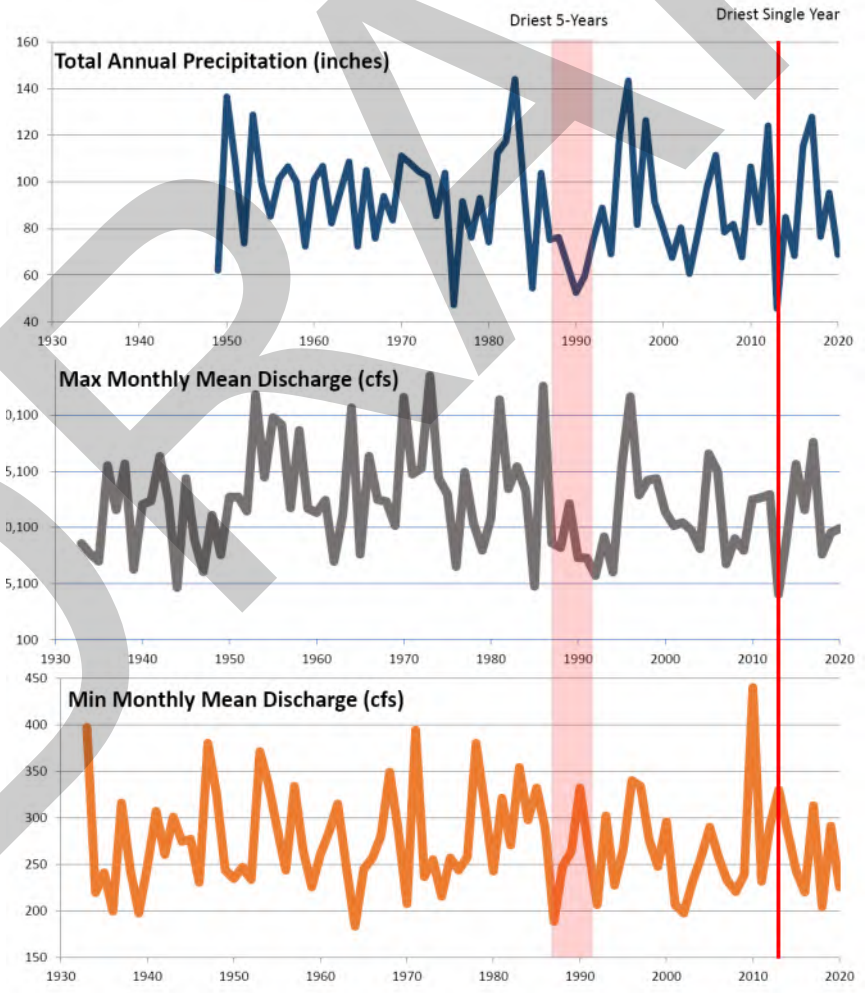
DRAFT

2.0 WATER SUPPLY RELIABILTIY ANALYSIS

Crescent City performed an analysis of annual precipitation totals from the nearest weather station with a continuous historical record 1949-2020, (Gasquet, California). A summary of the analysis is included in the table below:

Type of Year(s)	Year(s)	Annual Total Precipitation (inches)	% Normal
Average Year	1999	91	100%
Single Driest Year	2013	46	51%
Driest Five Years	1987-1991	65.7	72%

To look for the impact of the various year types on the Smith River discharge, the Smith River average monthly discharge (cubic feet per second) for the wettest and driest months were plotted with total annual precipitation (inches) as shown below:



DRAFT

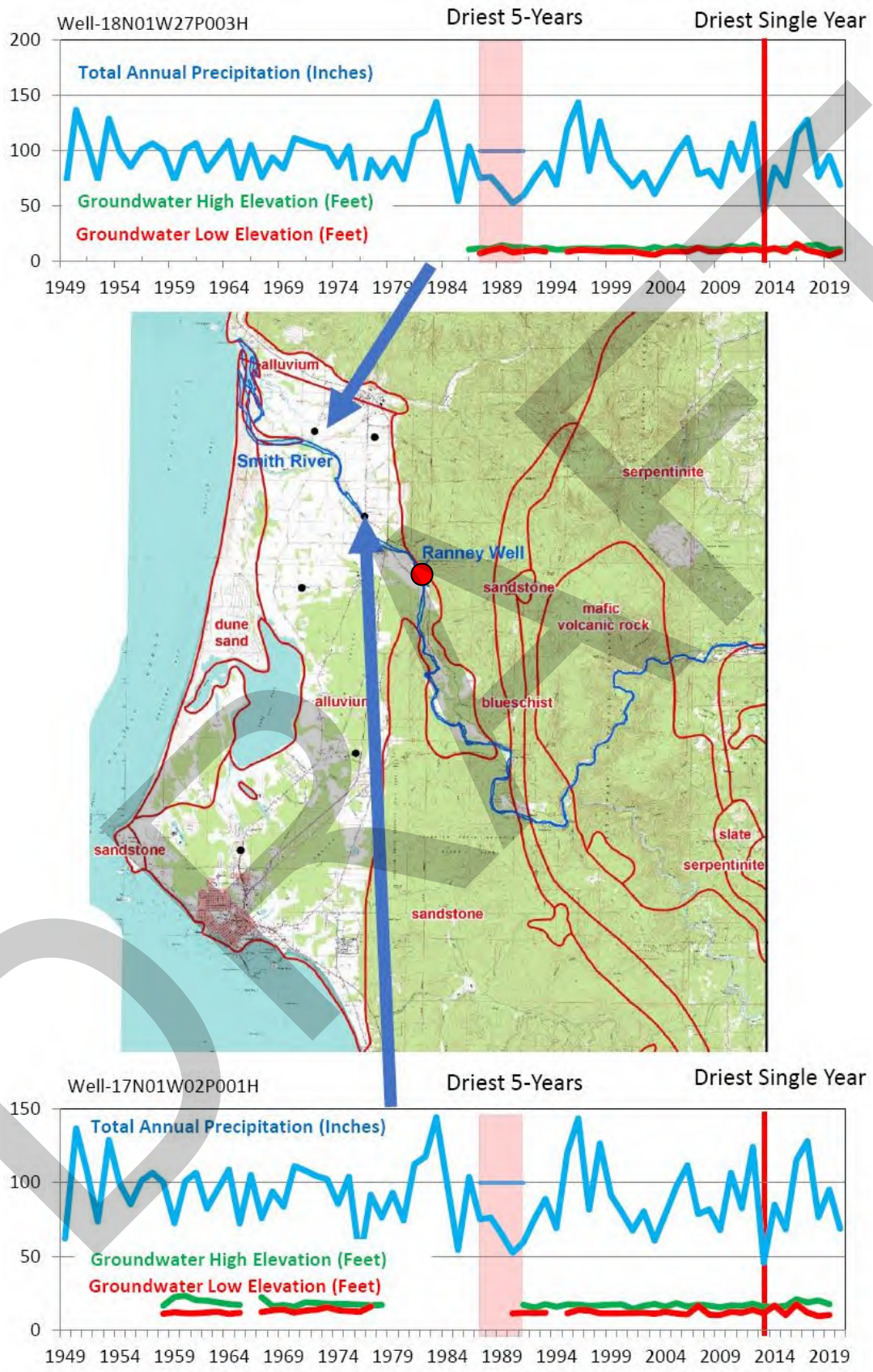
The above plot shows that during the single driest year the average monthly flow of the Smith River during the dry season was unaffected and was actually higher than years before and after the driest year (2013).

The above plot shows that during the driest 5 consecutive years the average monthly flow of the Smith River during the dry season actually increased during the 5 driest year(s).

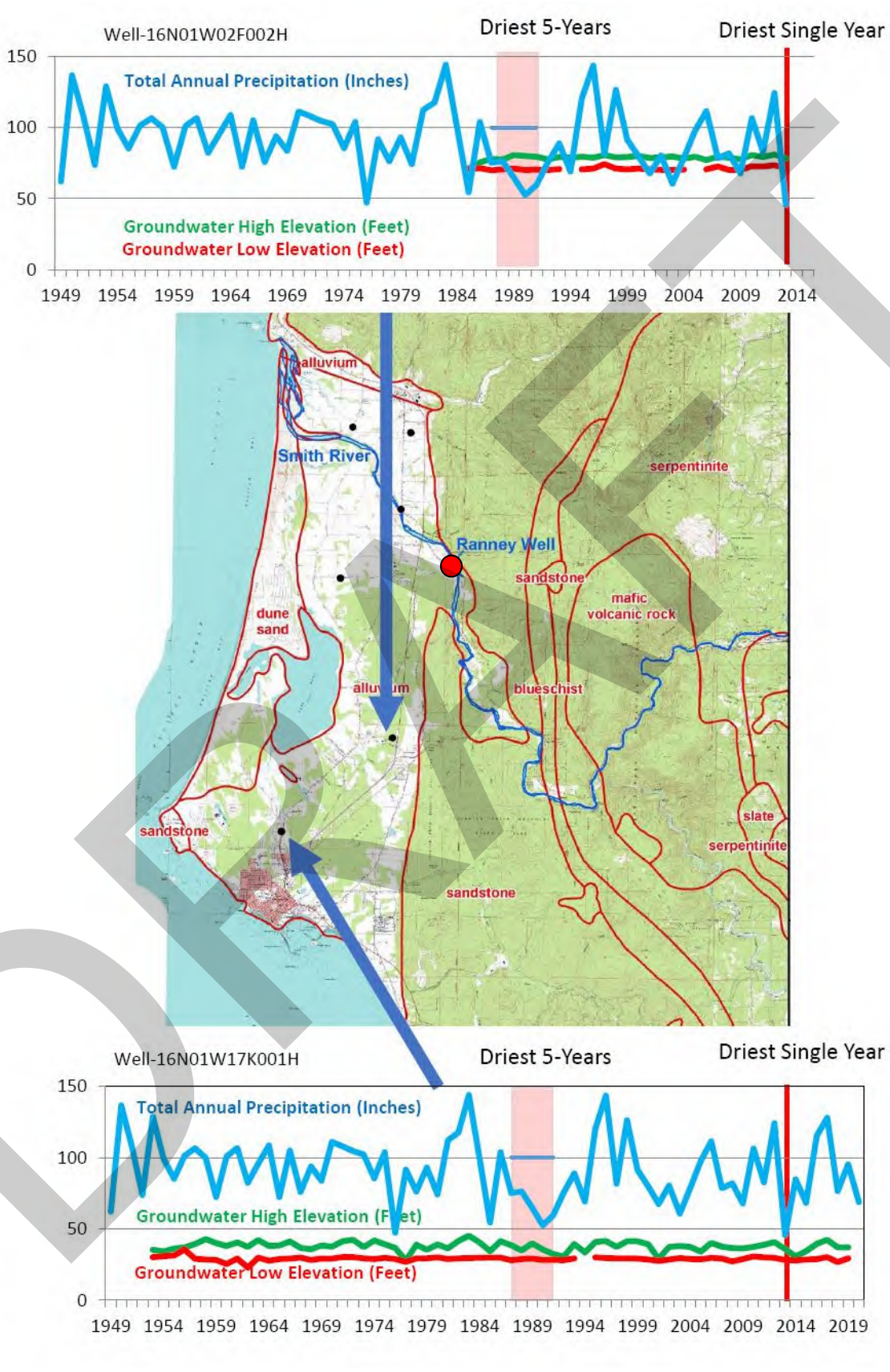
The Smith River is sustained by groundwater during periods of low precipitation which buffers the impact of dry periods. The record highest production rate for Crescent City was 2.70 Million Gallons per DAY (MGD). The lowest annual monthly mean Smith River discharge is 184 cubic feet per second (119 MGD). The City's highest recorded daily volume is only 2.3% of the recorded lowest annual mean monthly discharge rate.

Groundwater annual high and low elevations were plotted with annual precipitation for several groundwater wells used to monitor conditions of the Smith Groundwater Plain Groundwater Basin. The wells are located in different areas within the groundwater basin. The driest single year and driest 5-years are noted to show the impact of precipitation extremes on Smith River Plain Groundwater Basin water levels.

DRAFT


Well-18N01W27P003H
Driest 5-Years
Driest Single Year
Total Annual Precipitation (Inches)
Groundwater High Elevation (Feet)
Groundwater Low Elevation (Feet)
200
150
100
50
0
1949 1954 1959 1964 1969 1974 1979 1984 1989 1994 1999 2004 2009 2014 2019
alluvium
Smith River
serpentinite
Ranney Well
sandstone
mafic
volcanic rock
dune
sand
alluvium
blueschist
slate
serpentinite
sandstone
sandstone
Well-17N01W02P001H
Driest 5-Years
Driest Single Year
Total Annual Precipitation (Inches)
Groundwater High Elevation (Feet)
Groundwater Low Elevation (Feet)
150
100
50
0
1949 1954 1959 1964 1969 1974 1979 1984 1989 1994 1999 2004 2009 2014 2019

DRAFT


Well-16N01W02F002H
Driest 5-Years
Driest Single Year
150
100
50
0
Total Annual Precipitation (Inches)
Groundwater High Elevation (Feet)
Groundwater Low Elevation (Feet)
1949 1954 1959 1964 1969 1974 1979 1984 1989 1994 1999 2004 2009 2014
alluvium
Smith River
serpentinite
Ranney Well
sandstone
mafic volcanic rock
dune sand
alluvium
blueschist
slate
serpentinite
sandstone
sandstone
Well-16N01W17K001H
Driest 5-Years
Driest Single Year
150
100
50
0
Total Annual Precipitation (Inches)
Groundwater High Elevation (Feet)
Groundwater Low Elevation (Feet)
1949 1954 1959 1964 1969 1974 1979 1984 1989 1994 1999 2004 2009 2014 2019

DRAFT

The plots on the previous pages indicate the following:

- Groundwater elevations within the Smith River Plain Groundwater Basin have been stable throughout the time of available data (1950's to 2020).

- At some locations, wet weather groundwater elevations appear to be somewhat responsive to more precipitation. At other locations, the wet weather groundwater elevations appear to be non-responsive to more precipitation; and

- The single driest and multiple driest 5 years on record did not have an impact on the dry weather groundwater elevations. Dry season groundwater elevations appear to be steady throughout the time interval covered by the available data.

Conclusions regarding water source reliability include:

- Historic periods of dry weather appear to have had an impact on the seasonally high Smith River discharge volumes and on seasonally high groundwater elevations;

- Historic periods of dry weather do not appear to have significantly impacted the seasonally low Smith River discharge volumes due to recharge from the surrounding Smith River Plain Groundwater Basin;

- Historic periods of dry weather do not appear to have had an impact on seasonally low groundwater elevations in the Smith River Plain Groundwater basin: and

- The Crescent City water supply is not currently experiencing the impact of drought and has been reliable even during periods of record low precipitation.

DRAFT

3.0 ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT PROCEDURES

***Requirement**:* Water Code Section 10632(a)(2) The procedures used in conducting an annual water supply and demand assessment that include, at a minimum, both of the following:

- The written decision-making process that an urban water supplier will use each year to determine its water supply reliability.
- (B) The key data inputs and assessment methodology used to evaluate the urban water supplier's water supply reliability for the current year and one dry year, including all of the following:
    - (i) Current year unconstrained demand, considering weather, growth, and other influencing factors, such as policies to manage current supplies to meet demand objectives in future years, as applicable.
    - (ii) Current year available supply, considering hydrological and regulatory conditions in the current year and one dry year. The annual supply and demand assessment may consider more than one dry year solely at the discretion of the urban water supplier.
    - (iii) Existing infrastructure capabilities and plausible constraints.
    - (iv) A defined set of locally applicable evaluation criteria that are consistently relied upon for each annual water supply and demand assessment.
    - (v) A description and quantification of each source of water supply. Water Code Section 10632.1

3.1 Decision Making Process

The City's Annual Water Supply and Demand Assessment will follow the following approximate schedule:

- Second week of May – Data collection, precipitation data, Smith River discharge data, and groundwater elevation data.

- Third week of May – Data evaluation. Determine current year unconstrained demand, current year available supply, identify existing infrastructure capabilities and plausible constraints, and generate the Draft-Annual Water Supply and Demand Assessment.

- Fourth week of May – Annual Water Supply and Demand Assessment reviewed by Public Works Director and City Manager and finalized.

- First week in June – Notice of public meeting.

DRAFT

- Third week in June – Report presented to City Council.

- July 1 - Annual Water Supply and Demand Assessment to the Department of Water Resources.

3.2 Data and Methodologies

Crescent City will prepare Annual Water Supply and Demand Assessments utilizing the following data:

- Precipitation data from the Gasquet Ranger Station (GAS).

- Discharge data from the Smith River (USGS gauging station 11532500). (USGS Current Conditions for USGS 11532500 SMITH R NR CRESCENT CITY CA)

- Groundwater elevation data from CASGEM wells within the Smith River Plain Groundwater Basin.

- Projected current year unconstrained demand.

- Projected current year available supply.

The above data will be evaluated with similar methodologies and added to the analysis of water supply reliability contained in Section 2 of this plan. A finer time increment of analysis may be employed in the methodologies.

DRAFT

4.0 CATASTROPHIC INTERRUPTION OF WATER SUPPLY

The California Safe Drinking Water Act mandates in Section 4029 that every public water system includes a Disaster Response Plan as part of their Emergency Notification Plan. This plan will outline the steps to be taken to maintain or return water service to the City's customers after a major disaster.

The City of Crescent City prepared an Emergency Response Plan (ERP), which describes the actions the City will take during a catastrophic interruption of water supplies.

DRAFT

5.0 STANDARD WATER SHORTAGE STAGES

5.1 Rationing Stages and Demand Reduction Goals

Crescent City's Water Shortage Contingency Plan consists of the following stages of rationing and demand reduction goals:

Stage	Demand Reduction Goals
Stage 1-Voluntary Conservation	20%
Stage 2-Mandatory Conservation	20-30%
Stage 3-Emergency Water Shortage	30-50%
Stage 4-Critical Water Shortage Emergency	>50%

The declaration of a specific stage of water shortage emergency will depend on several variables including:

- Statewide drought conditions;
- Local drought conditions; and
- State regulations, notices, and orders.

Declaration of a Stage 4 water shortage emergency may also be triggered by a major catastrophic event that affects the ability of the City to meet anticipated demands. The decision regarding declaration of a specific Stage of water shortage emergency will be based on conditions at the time, therefore the triggers are general to accommodate a broad range of conditions.

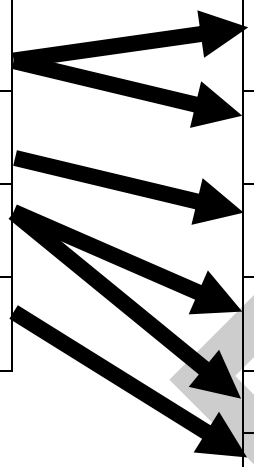
> ***Requirement:*** *Water Code Section 10632 (a)(3)(A) requires six standard water shortage levels corresponding to progressive ranges of up to 10-, 20-, 30-, 40-, and 50-percent shortages and greater than 50-percent shortage.*
>
> ***Requirement:*** *Water Code Section 10632 (a)(3)(B) authorizes Suppliers to continue using their own water shortage levels that may have been included in past WSCPs. If the Supplier chooses to continue to do so in its new WSCP, it must include a narrative or graphic describing the Supplier's water shortage levels in relationship to the six standard water shortage levels prescribed by statute.*

A graphic correlation between the shortage level (stages) contained in this WSCP and the 2020 WSCP mandated shortage levels is shown below:

DRAFT

2020 WSCP mandated shortage levels

Stage	Demand Reduction Goals
Stage 1-Voluntary Conservation	20%
Stage 2-Mandatory Conservation	20-30%
Stage 3-Emergency Water Shortage	30-50%
Stage 4-Critical Water Shortage Emergency	>50%



Stage	Shortage Level
1	≤ 10%
2	10-20%
3	20-30%
4	30-40%
5	40-50%
6	>50%

5.2 Shortage Response Actions

During a **Stage I** water shortage voluntary water conservation is requested of all customers including the specific voluntary measures below:

- Use water efficient indoor devices.
- Use of hose-end shutoff nozzles on all garden and utility hoses.
- Refrain from washing cars, boats, trailers, or other vehicles except by hose with shutoff nozzle and bucket.
- Installation of low-flow shower heads, low-flush toilets, and faucet aerators.
- Promptly repair all leaks in plumbing fixtures, water lines, and sprinkler systems.

During a **Stage 2** water shortage water use as indicated in the table below are nonessential and are prohibited:

Outdoor irrigation of ornamental landscapes or turf with potable water is prohibited on odd numbered calendar days.
Washing sidewalks, driveways, parking areas, tennis courts, patios or other exterior paved areas except by public agency for the purpose of public safety.

DRAFT

Application of potable water to outdoor landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures.
Use of potable water in a fountain or other decorative water feature, except where the water is part of a recirculation system.
Watering any portion of a golf course other than the tees and greens except where private well or recycled water supply is used.
Fire hydrant water unless authorized by the City, except by fire protection agencies for fire suppression purposes, or for other authorized uses including storm drain maintenance, and street sweeping purposes. Water/sewer flushing, and fire flow testing are authorized only if coordinated and performed at the same time.
The use of a hose that dispenses potable water to wash a motor vehicle or for any other purpose, except where the hose is fitted with a shutoff nozzle or device attached to it that causes it to cease dispensing water immediately when not in use.

During a **Stage 3** water shortage emergency, in addition to the restricted water uses in earlier Stages, water uses indicated below are nonessential and are prohibited:

Outdoor irrigation is prohibited unless total water use is reduced by 50 % from the same billing period from the previous calendar year (prior to declaration of the most recent water shortage emergency).
Bulk water sales.
Any leaks that are not repaired within 24 hours after discovery.
Automated commercial car washes without a water recycling system.
Street cleaning or dust control with potable water.
Filling or to top off any swimming pools, outdoor spas, wading pools, and ornamental water features.
Use of water from a fire hydrant except for fighting fires and human consumption.
Watering any residential lawn or any commercial or industrial area lawn maintained for aesthetic purposes, at any time of the day or night during the period of March 1, through September 30, when a Stage 3 is in effect.
Planting any new landscaping, except for designated drought-resistant landscaping approved by the City.
Operating a hotel, motel or other commercial lodging establishment without offering patrons the option to forego the daily laundering of towels, sheets and linens.
Use of water for any outdoor washing purpose including commercial car washing, window washing, and paint preparation.
Washing of cars, boats, trailers, or other vehicles.

DRAFT

During a **Stage 4** water shortage emergency, in addition to the restricted water uses in earlier stages, water uses indicated below are nonessential and are prohibited:

Agricultural irrigation.
Outdoor irrigation.
Any leaks that are not repaired immediately.

5.3 Communication Protocols

On an annual basis in the month of June, Public works staff will perform an Annual Assessment of City water supplies, state regulatory requirements, notices, or orders, and determine if a water shortage emergency exists or is imminent within the Crescent City water service area.

The results of the Annual Assessment will be communicated to the Public Works Director and the City Manager.

The City Manager will report the findings of the Annual Assessment to the City Council before the end of June. The City Manager may recommend a water shortage emergency resolution to the city council if warranted.

If a water shortage emergency is declared, it will be communicated to the water customers, general public, interested parties, and local and regional government agencies utilizing any of the following methods: bill inserts, press releases, radio spots, social medial posts, and blog posts.

5.4 Compliance and Enforcement

Fines and penalties and enforcement are established in the Crescent City Municipal Code in Chapter 13.17.040 through 13.17.080 “Water Conservation”. Enforcement actions include:

- Warnings, verbal and written (13.17.040);
- Installation of a flow-restricting device (13.17.040);
- Water service surcharge (13.17.050), and;
- Termination of service (13.17.060).

5.5 Legal Authority

The legal authority for this Water Shortage Contingency Plan is contained in the Crescent City Municipal Code in amended Chapter 13.17.010 and 13.17.015.

DRAFT

6.0 FINANCIAL CONSEQUENCES OF WSCP ACTIVATION

During the implementation of the various water shortage emergency stages, there will be an impact on revenue and expenses for the City due to the anticipated demand reduction. Revenue from water sales will be reduced and expenses including electricity (pumping) and supplies (treatment chemicals). Financial results will be closely monitored during any Water Shortage Emergency to ensure revenue is adequate.

In the event revenues decrease or are projected to decrease to a level impacting utility operations, the following options will be considered:

- Use of reserve funds if funds can be reduced to a level which still complies with other existing financial covenants;
- Use of capital improvement funds by deferring capital improvement projects as long as the deferment of projects does not pose a threat to public health or safety; and / or
- Implement excess use penalties.

DRAFT

7.0 MONITORING AND REPORTING

During a declared water shortage emergency water production volumes will be reviewed monthly, including a calculation of Gallons Per Capita per Day (GPCD), and comparison to the same month of the year just prior to the declaration of a water shortage emergency.

DRAFT

8.0 WSCP REFINEMENT PROCEDURES

Crescent City considers its WSCP as a dynamic tool that is the subject of refinements as needed to ensure that its shortage response actions are effective and to produce the desired results. If certain procedural refinements or new actions are identified by City staff, or suggested by customers or other interested parties, the City should have an identified mechanism to evaluate their effectiveness, incorporate them into the WSCP, and implement them quickly at the appropriate water shortage level .

DRAFT

9.0 SPECIAL WATER FEATURE DISTINCTION

The City of Crescent City is not aware of any water features that use potable water without a recirculation system.

DRAFT

10.0 PLAN ADOPTION, SUBMITTAL, AND AVAILABILITY

The following steps will be used for the WSCP adoption, submittal, and to make it available to the public:

- Notification of public hearing – Crescent City will notify cities, counties, and the public that they will be reviewing its WSCP and considering changes or amendments - At least 60 days prior to public hearing.

- Notification to the public – Crescent City will provide two notifications - Published in a local newspaper at least once a week for two successive weeks prior to the City Council meeting (public hearing).

- Public hearing and optional adoption – The City will allow for community input, considering economic impacts, and can be combined with the adoption meeting as long as the public hearing is on the agenda before the adoption.

- Adoption – The adoption hearing is for the City Council to formally adopt the WSCP.

- Plan submittal – Crescent City will update and submit its 2020 WSCP to DWR by July 1, 2021.

- Plan availability - No later than 30 days after adoption – Crescent City will submit the WSCP to the California State Library and all cities and counties within which the City provides water.

- Amending an adopted the WSCP – If the City amends an adopted WSCP, each of the steps for notification, public hearing, adoption, and submittal must also be followed for the amended plan.

DRAFT

APPENDIX A
CALIFORNIA WATER CODE SECTION 350-359

DRAFT

2009 California Water Code - Section 350-359 :: Chapter 3. Water Shortage Emergencies

WATER CODE
SECTION 350-359

350. The governing body of a distributor of a public water supply, whether publicly or privately owned and including a mutual water company, may declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

351. Excepting in event of a breakage or failure of a dam, pump, pipe line or conduit causing an immediate emergency, the declaration shall be made only after a public hearing at which consumers of such water supply shall have an opportunity to be heard to protest against the declaration and to present their respective needs to said governing board.

352. Notice of the time and place of hearing shall be published pursuant to Section 6061 of the Government Code at least seven days prior to the date of hearing in a newspaper printed, published, and circulated within the area in which the water supply is distributed, or if there is no such newspaper, in any newspaper printed, published, and circulated in the county in which the area is located.

353. When the governing body has so determined and declared the existence of an emergency condition of water shortage within its service area, it shall thereupon adopt such regulations and restrictions on the delivery of water and the consumption within said area of water supplied for public use as will in the sound discretion of such governing body conserve the water supply for the greatest public benefit with particular regard to domestic use, sanitation, and fire protection.

354. After allocating and setting aside the amount of water which in the opinion of the governing body will be necessary to supply water needed for domestic use, sanitation, and fire protection, the regulations may establish priorities in the use of water for other purposes and provide for the allocation, distribution, and delivery of water for such other purposes,

DRAFT

without discrimination between consumers using water for the same purpose or purposes.

355. The regulations and restrictions shall thereafter be and remain in full force and effect during the period of the emergency and until the supply of water available for distribution within such area has been replenished or augmented.

356. The regulations and restrictions may include the right to deny applications for new or additional service connections, and provision for their enforcement by discontinuing service to consumers wilfully violating the regulations and restrictions.

357. If the regulations and restrictions on delivery and consumption of water adopted pursuant to this chapter conflict with any law establishing the rights of individual consumers to receive either specific or proportionate amounts of the water supply available for distribution within such service area, the regulations and restrictions adopted pursuant to this chapter shall prevail over the provisions of such laws relating to water rights for the duration of the period of emergency; provided, however, that any distributor of water which is subject to regulation by the State Public Utilities Commission shall before making such regulations and restrictions effective secure the approval thereof by the Public Utilities Commission.

358. Nothing in this chapter shall be construed to prohibit or prevent review by any court of competent jurisdiction of any finding or determination by a governing board of the existence of an emergency or of regulations or restrictions adopted by such board, pursuant to this chapter, on the ground that any such action is fraudulent, arbitrary, or capricious.

359. (a) Notwithstanding any other provision of law that requires an election for the purpose of authorizing a contract with the United States, or for incurring the obligation to repay loans from the United States, and except as otherwise limited or prohibited by the California Constitution, a public water agency, as an alternative procedure to submitting the proposal to an election, upon affirmative vote of four-fifths of the members of the governing body thereof, may apply for, accept, provide for the repayment together with interest thereon, and use funds made available by the federal government pursuant to Public Law 95-18, pursuant to any other federal act subsequently enacted during 1977 that specifically provides emergency drought relief financing, or

DRAFT

pursuant to existing federal relief programs receiving budget augmentations in 1977 for drought assistance, and may enter into contracts that are required to obtain those federal funds pursuant to the provisions of those federal acts if the following conditions exist:

(1) The project is undertaken by a state, regional, or local governmental agency.

(2) As a result of the severe drought now existing in many parts of the state, the agency has insufficient water supply needed to meet necessary agricultural, domestic, industrial, recreational, and fish and wildlife needs within the service area or area of jurisdiction of the agency.

(3) The project will develop or conserve water before October 31, 1978, and will assist in mitigating the impacts of the drought.

(4) The agency affirms that it will comply, if applicable, with Sections 1602, 1603, and 1605 of the Fish and Game Code.

(5) The project will be completed on or before the completion date, if any, required under the federal act providing the funding, but not later than March 1, 1978.

(b) Any obligation to repay loans shall be expressly limited to revenues of the system improved by the proceeds of the contract.

(c) No application for federal funds pursuant to this section shall be made on or after March 1, 1978.

(d) Notwithstanding the provisions of this section, a public agency shall not be exempt from any provision of law that requires the submission of a proposal to an election if a petition requesting such an election signed by 10 percent of the registered voters within the public agency is presented to the governing board within 30 days following the submission of an application for federal funds.

(e) Notwithstanding the provisions of this section, a public water agency that applied for federal funds for a project before January 1, 1978, may make application to the Director of the Drought Emergency Task Force for extension of the required completion date specified in paragraph (5) of subdivision (b). Following receipt of an application for extension, the Director of the Drought Emergency Task Force may extend the required completion date specified in
paragraph (5) of subdivision (b) to a date not later than September 30, 1978, if the director finds that the project has been delayed by factors not controllable by the public water agency. If the Drought Emergency Task Force is dissolved, the Director of Water Resources shall exercise the authority vested in the Director of the Drought Emergency Task Force pursuant to this section.

DRAFT

(f) For the purposes of this section, "public water agency" means a city, district, agency, authority, or any other political subdivision of the state, except the state, that distributes water to the inhabitants thereof, is otherwise authorized by law to enter into contracts or agreements with the federal government for a water supply or for financing facilities for a water supply, and is otherwise required by law to submit those agreements or contracts or any other project involving long-term debt to an election within that public water agency.

DRAFT

APPENDIX B
CALIFORNIA WATER CODE SECTION 10632

DRAFT

10632.

(a) Every urban water supplier shall prepare and adopt a water shortage contingency plan as part of its urban water management plan that consists of each of the following elements:

(1) The analysis of water supply reliability conducted pursuant to Section 10635.

(2) The procedures used in conducting an annual water supply and demand assessment that include, at a minimum, both of the following:

(A) The written decision making process that an urban water supplier will use each year to determine its water supply reliability.

(B) The key data inputs and assessment methodology used to evaluate the urban water supplier's water supply reliability for the current year and one dry year, including all of the following:

(i) Current year unconstrained demand, considering weather, growth, and other influencing factors, such as policies to manage current supplies to meet demand objectives in future years, as applicable.

(ii) Current year available supply, considering hydrological and regulatory conditions in the current year and one dry year. The annual supply and demand assessment may consider more than one dry year solely at the discretion of the urban water supplier.

(iii) Existing infrastructure capabilities and plausible constraints.

(iv) A defined set of locally applicable evaluation criteria that are consistently relied upon for each annual water supply and demand assessment.

(v) A description and quantification of each source of water supply.

(3) (A) Six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40, and 50 percent shortages and greater than 50 percent shortage. Urban water suppliers shall define these shortage levels based on the suppliers' water supply conditions, including percentage reductions in water supply, changes in groundwater levels, changes in surface elevation or level of subsidence, or other changes in hydrological or other local conditions indicative of the water supply available for use. Shortage levels shall also apply to catastrophic interruption of water supplies, including, but not limited to, a regional power outage, an earthquake, and other potential emergency events.

(B) An urban water supplier with an existing water shortage contingency plan that uses different water shortage levels may comply with the requirement in subparagraph (A) by developing and including a cross-reference relating its existing categories to the six standard water shortage levels.

DRAFT

(4) Shortage response actions that align with the defined shortage levels and include, at a minimum, all of the following:

(A) Locally appropriate supply augmentation actions.

(B) Locally appropriate demand reduction actions to adequately respond to shortages.

(C) Locally appropriate operational changes.

(D) Additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions.

(E) For each action, an estimate of the extent to which the gap between supplies and demand will be reduced by implementation of the action.

(5) Communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments, regarding, at a minimum, all of the following:

(A) Any current or predicted shortages as determined by the annual water supply and demand assessment described pursuant to Section 10632.1.

(B) Any shortage response actions triggered or anticipated to be triggered by the annual water supply and demand assessment described pursuant to Section 10632.1.

(C) Any other relevant communications.

(6) For an urban retail water supplier, customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions as determined pursuant to Section 10632.2.

(7) (A) A description of the legal authorities that empower the urban water supplier to implement and enforce its shortage response actions specified in paragraph (4) that may include, but are not limited to, statutory authorities, ordinances, resolutions, and contract provisions.

(B) A statement that an urban water supplier shall declare a water shortage emergency in accordance with Chapter 3 (commencing with Section 350) of Division 1.

(C) A statement that an urban water supplier shall coordinate with any city or county within which it provides water supply services for the possible proclamation of a local emergency, as defined in Section 8558 of the Government Code.

(8) A description of the financial consequences of, and responses for, drought conditions, including, but not limited to, all of the following:

DRAFT

(A) A description of potential revenue reductions and expense increases associated with activated shortage response actions described in paragraph (4).

(B) A description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions described in paragraph (4).

(C) A description of the cost of compliance with Chapter 3.3 (commencing with Section 365) of Division 1.

(9) For an urban retail water supplier, monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

(10) Reevaluation and improvement procedures for systematically monitoring and evaluating the functionality of the water shortage contingency plan in order to ensure shortage risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented as needed.

(b) For purposes of developing the water shortage contingency plan pursuant to subdivision (a), an urban water supplier shall analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas, as defined in subdivision (a) of Section 115921 of the Health and Safety Code.

(c) The urban water supplier shall make available the water shortage contingency plan prepared pursuant to this article to its customers and any city or county within which it provides water supplies no later than 30 days after adoption of the water shortage contingency plan.

(Repealed and added by Stats. 2018, Ch. 14, Sec. 32. (SB 606) Effective January 1, 2019.)

DRAFT

APPENDIX D

DEL NORTE COUNTY OPERATIONAL AREA HAZARD MITIGATION PLAN

DRAFT

COUNTY of
DEL NORTE
★ CALIFORNIA ★

2025 Hazard Mitigation Plan

Volume 2—Jurisdictional Annexes



December 2025

TETRA TECH

DRAFT

2025 Del Norte County Hazard Mitigation Plan

December 2025

Tetra Tech Project Number 105S045034

PREPARED FOR

County of Del Norte
981 H Street
Suite 210
Crescent City, CA 95531

PREPARED BY

Tetra Tech, Inc.
2301 Lucien Way #120
Maitland, FL 32751

Phone: 321-441-8500
www.tetratech.com

DRAFT

TETRA TECH

TABLE OF CONTENTS

1. INTRODUCTION 1-1
2. UNINCORPORATED COUNTY OF DEL NORTE 2-1
3. CITY OF CRESCENT CITY 3-1
4. BIG ROCK COMMUNITY SERVICES DISTRICT 4-1
5. CRESCENT FIRE PROTECTION DISTRICT 5-1
6. ELK VALLEY RANCHERIA 6-1
7. GASQUET COMMUNITY SERVICES DISTRICT 7-1
8. HRC COMMUNITY SERVICES DISTRICT 8-1
9. KLAMATH COMMUNITY SERVICES DISTRICT 9-1
10. SMITH RIVER FIRE PROTECTION DISTRICT 10-1
11. SMITH RIVER COMMUNITY SERVICES DISTRICT 11-1

APPENDICES

Appendix A: Participating Jurisdiction Letters of Intent

DRAFT

1. INTRODUCTION

1.1 BACKGROUND

The Federal Emergency Management Agency (FEMA) encourages multi-jurisdictional planning for local hazard mitigation. Such planning efforts can generate a unified local voice on hazard mitigation, with cross-jurisdictional support for a hazard mitigation plan's recommended mitigation action. They also help to form working relationships among participants' emergency managers, floodplain administrations, and other development agencies (FEMA 2021). Eligible participants for multi-jurisdiction hazard mitigation plans are local governments defined as follows in Title 44 of the Code of Federal Regulations, Part 201 (Mitigation Planning):

"Any county, municipality, city, town, township, public authority, school district, special district, intrastate district, council of governments (regardless of whether the council of governments is incorporated as a nonprofit corporation under State law), regional or interstate government entity, or agency or instrumentality of a local government; any Indian tribe or authorized tribal organization, or Alaska Native village or organization; and any rural community, unincorporated town or village, or other public entity." (44 CFR Section 201.2)

In multi-jurisdictional hazard mitigation planning, every participating jurisdiction must meet the federal requirements for local mitigation planning. This means that each jurisdiction must actively participate in the planning process and must officially adopt the plan (44 CFR Section 201.6a(4)).

For the Del Norte County Hazard Mitigation Plan (HMP), a Planning Partnership was formed to leverage resources and to meet the federal local mitigation planning requirements for as many eligible governments in the County as possible. Members of the Planning Partnership consisted of representatives from each participating jurisdiction. Del Norte County was the lead agency for this planning effort and directed the planning process with assistance from a contract planning consultant (Tetra Tech). A Steering Committee with broad representation across the county provided guidance and direction for the HMP planning process. Each participating planning partner has prepared a jurisdictional annex to this plan.

This chapter describes the Del Norte County HMP Planning Partnership, its responsibilities throughout the planning process, and the jurisdictional annexes developed as a result of the plan update efforts. The remaining chapters in this volume of the HMP present the annexes for each participating jurisdiction.

1.2 PLANNING PARTNER INVOLVEMENT

1.2.1 Initial Solicitation and Letters of Intent

Del Norte County solicited the participation of all eligible jurisdictions in the County at the commencement of this project. All jurisdictions interested signed a letter of intent and/or a resolution

DRAFT

committing their participation and resources to the development of the Del Norte County HMP (Appendix A). The following is a list of the jurisdictions that participated in the update process and have met the minimum requirements of participation as established by the County and the Steering Committee:

- Unincorporated Del Norte County
- City of Crescent City
- Big Rock Community Services District
- Crescent Fire Protection District
- Elk Valley Rancheria
- Gasquet Community Services District
- HRC Community Services District
- Klamath Community Services District
- Smith River Community Services District
- Smith River Fire Protection District

1.2.2 Planning Partner Expectations

The following list of planning partner expectations was agreed to in each letter of intent to participate:

> The **Planning Partnership** is responsible for developing and reviewing draft sections of the hazard mitigation plan, creating the mitigation strategy for their jurisdiction, and adopting the final plan. Members of the Planning Partnership have the expertise to develop the plan and have their jurisdiction's authority to implement the mitigation strategy developed during the planning process.

- Identify municipal representatives to serve as the planning points of contact. These people were responsible for representing the community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at municipal Planning Committee meetings
- Provide data and information about the community as requested by the Steering Committee or the contract consultant, including:
  - Structure and facility inventory data
  - New development and anticipated development
  - Natural hazard risk areas
  - Natural hazard events and losses that have impacted the community in the last five years
  - Plans, studies, reports, and ordinances addressing natural hazard risk
  - Mitigation activity in the community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in the community, which may include:
  - Providing notices of the planning project on the municipal website with links to a County project website
  - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
  - Advertising and supporting public meetings in the area

DRAFT

  - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in the community.
- Assist with the identification of stakeholders within the community who should be informed and potentially involved with the planning process.
- Complete data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant (or high or medium) risk to the community.
- Involve the local NFIP Floodplain Administrator in the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Adopt the plan by resolution of the local governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.

Under the plan implementation and maintenance protocol established in Volume 1 of the HMP, it is intended that the Planning Partnership will remain active to support the maintenance of the HMP after the plan has been adopted. By adopting this plan, each planning partner agrees to the plan implementation and maintenance protocol. Given that individual commitments change over time, it will be the responsibility of each jurisdiction and its points of contact to inform the County's coordinator for this HMP of any changes in representation.

1.3 JURISDICTIONAL ANNEX PREPARATION PROCESS

Jurisdictional annexes provide a unique, stand-alone guide to mitigation planning for each jurisdiction participating in a multi-jurisdiction HMP. The 2025 Del Norte County HMP is organized so that there is an annex for the unincorporated parts of Del Norte County and for every jurisdiction within the County's borders. This volume of the HMP includes an annex for each jurisdiction in Del Norte County, including those that did not fully participate.

Workshops and additional meetings (in person, by email, or by teleconference) to complete the jurisdictional annexes were held with the County, the contract consultant, and the Steering Committee throughout the planning process. Details regarding these meetings are described further in Volume 1.

1.3.1 Incorporation of Information from Previous HMP

In order to facilitate the update of the jurisdictional annexes, data from the 2019 Del Norte County HMP annexes was transferred to the most current annex format, which has evolved to meet changing federal and state criteria. Clear instructions were provided to the representatives of each planning partner. This transfer of information provided a basis to address the following:

- Changes in local capabilities and vulnerabilities
- The current status of the 2019 HMP mitigation strategy
- A new mitigation strategy to address identified issues and to increase community resiliency

DRAFT

1.3.2 Kickoff Meeting

The County invited all municipalities to participate in a planning partner kickoff meeting held on September 6, 2024, to provide an overview of the planning process, including meetings and worksheets that would be used to gather information for annex preparation. Key elements of the worksheets were discussed and subsequently completed by the appropriate jurisdictional personnel for each worksheet. The worksheets were collected, and the information was incorporated into each jurisdictional annex. In the event additional information was needed, the jurisdictional point of contact was contacted to provide more input into their annex.

1.3.3 Hazard Ranking Exercise

At the risk assessment meeting on May 15, 2022, the consultant summarized the findings of the risk assessment for the hazards of concern evaluated in this HMP, including an initial ranking of hazards using the risk-related ranking methodology described in Volume 1. Each planning partner was asked to review the hazard ranking for its jurisdiction and revise as appropriate based on history of events, probability of occurrence, and the potential impact on people, property, and the economy. This exercise familiarized the planning partners with how to use the risk assessment as a tool to support other planning and hazard mitigation processes and to help prioritize types of mitigation actions that should be considered. Hazards that were ranked as “high” for each jurisdiction as a result of this exercise were considered to be priorities for identifying appropriate mitigation actions, although jurisdictions also identified actions to mitigate “medium” or “low” ranked hazards as appropriate.

1.3.4 Mitigation Strategy Workshop

A mitigation strategy workshop was held on March 20, 2025, to provide an overview on how to develop a strong mitigation strategy. In preparation for this workshop, the consultant provided a list of problem areas and vulnerabilities identified during the planning process, along with feedback from the citizen survey, to support the development of relevant projects for the mitigation strategy. Workshop participants received the following FEMA publications to use as a resource as part of a comprehensive review of all possible activities and mitigation measures to address hazards of concern:

- FEMA 551 “Selecting Appropriate Mitigation Measures for Floodprone Structures” (March 2007)
- FEMA “Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards” (January 2013)

This workshop included the development of focused problem statements based on the impacts of natural hazards in the County and its communities. These problem statements provide detailed descriptions of problem areas, including known impacts on the jurisdiction (past damage, loss of service, etc.). Where possible, the statements include the street address of the problem location, adjacent streets, water bodies, and well-known structures as well as a brief description of existing site conditions (topography, terrain, hydrology). The problem statements form a bridge between the risk assessment (which quantifies impacts on each community), the capability assessment (which identifies capabilities for reducing hazard risks and supporting hazard mitigation), and the development of actionable mitigation strategies.

DRAFT

The County and the mitigation consultant worked with each jurisdiction to identify clear, implementable mitigation actions and to further support the completion of the jurisdictional annexes.

1.4 JURISDICTIONAL ANNEX FORMAT

The jurisdictional annex format is designed to document local compliance with the 44 CFR local mitigation planning regulations. It also achieves the following:

- Providing a locally relevant synthesis of the overall mitigation plan that can be readily presented, distributed, and maintained
- Facilitating local understanding of the community's risk from natural hazards
- Facilitating local understanding of the community's capabilities to manage natural hazard risk, including opportunities to improve those capabilities
- Facilitating local understanding of the efforts the community has taken, and plans to take, to reduce its natural hazard risk
- Facilitating the implementation of mitigation strategies, including the development of grant applications
- Providing a framework by which the community can continue to capture relevant data and information for future plan updates

The following are the elements of the jurisdictional annex.

- **Section X.1: Hazard Mitigation Planning Team:** Identifies the hazard mitigation planning primary and alternate contacts and floodplain administrator. Provides details on which departments were involved in the development of the jurisdictional annex. The widest range of departments, stakeholders, and people familiar with the jurisdiction should be involved in the development of the jurisdictional annexes. Further details on participants is provided in Volume 1.
- **Section X.2: Community Profile:** Provides a profile of the jurisdiction, including population and socially vulnerably populations.
- **Section X.3: Public Engagement**: Describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. This section focuses on the public invited to participate in the planning process by the County.
- **Section X.4: Stakeholder Engagement:** Describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. This section focuses on the stakeholders invited to participate in the planning process by the County.
- **Section X.5: Jurisdictional Capability Assessment and Integration:** Provides an inventory and evaluation of the jurisdiction's tools, mechanisms, and resources available to support hazard mitigation and natural hazard risk reduction. Tables provide an inventory of the jurisdiction's planning, regulatory, administrative, technical, and fiscal capabilities, its level of participation in state and federal programs designed to promote and incentivize local risk reduction efforts, and its adaptive capacity to adjust to damage and respond to consequences.

DRAFT

- **Section X.6: National Flood Insurance Program (NFIP) Compliance:** Summarizes jurisdiction-specific information related to managing and regulating the regulatory floodplain, including current and future compliance with the NFIP.
- **Section X.7: Jurisdictional Risk Assessment:** Provides information regarding each jurisdiction's vulnerability to the identified hazards. Full data and information on the hazards of concern, the methodology used to develop the vulnerability assessments, and the results of those assessments that serve as the basis of these local hazard rankings may be found in Volume 1.
  - ***Hazard Area:*** Each annex includes a map (or series of maps) illustrating identified hazard zones and critical facilities. The maps also show areas of known or anticipated future development, as available.
  - ***Hazard Event History:*** Identifies hazard events that have caused significant impacts within the jurisdiction, including a summary characterization of those impacts identified by the jurisdiction.
  - ***Hazard Ranking and Vulnerabilities:*** Each jurisdiction has differing degrees of risk exposure and vulnerability. The local hazard ranking identifies each jurisdiction's local degree of risk to each hazard, supporting the selection and prioritization of actions to reduce the highest levels of risk for each community.
  - ***Identified Issues:*** Presents other specific hazard vulnerabilities as identified by the jurisdiction.
- **Section X.8: Conditions that May Impact Risk:** Summarizes future conditions that may impact the jurisdiction's vulnerability and risk.
  - ***Population Pattern Changes:*** recent and expected population changes and the expected impact on hazards within the jurisdiction.
  - ***Changes in Land Use and Development:*** recent and expected future development trends, including major residential/commercial development and major infrastructure development.
- **Section X.9: Mitigation Strategy and Prioritization:** Discusses and provides the status of past mitigation actions and status and describes proposed hazard mitigation actions and prioritization.
  - ***Past Mitigation Action Status:*** Where applicable, a review of progress on the jurisdiction's prior mitigation strategy is presented, identifying the disposition of each prior action in the jurisdiction's updated mitigation strategy. Other completed or ongoing mitigation activities that were not specifically part of a prior local mitigation strategy may be included in this subsection as well.
  - ***Completed Mitigation Actions Not Identified in the Previous Mitigation Strategy:*** Other completed or ongoing mitigation activities that were not specifically part of a prior local mitigation strategy may be included in this subsection as well.
  - ***Changes in Priorities:*** Changes in jurisdiction priorities since the last HMP update.
  - ***Proposed Hazard Mitigation Actions for the Plan Update:*** Tables and action worksheets at the end of each annex present the jurisdiction's updated mitigation strategy, a summary

DRAFT

of the local mitigation strategy prioritization and a summary of the action categories and hazards addressed.

Each jurisdiction's annex is a living document that will continue to be improved as resources permit. Continued efforts to maintain the annex will ensure that it remains current and will improve its effectiveness as the key tool, reference, and guiding document by which the jurisdiction will implement hazard mitigation locally.

1.5 COVERAGE UNDER THE PLAN

All 9 of the original planning partners fully met the participation requirements specified by the Steering Committee and have annexes included in this volume. Those that did not meet the requirements will not be able to seek FEMA or state approval at the time of plan submittal, nor will they be eligible to obtain FEMA grant funding. Table 1-1 lists the status of each jurisdiction. Note that participation in scheduled Planning Partnership meetings provides only a partial indication of the level of participation of each jurisdiction. Appendices in Volume 1 provide details on further participation and meeting attendance.

Table 1-1. Jurisdictional Status

Planning Partner	Letter of Intent to Participate	Attended Workshops, Meetings, and Calls	Provided Update on Past Projects	Submitted Mitigation Actions for Current Plan	Seeking Approval for Adoption (meets all previous requirements)
Unincorporated Del Norte County	X	X	X	X	X
City of Crescent City	X	X	X	X	X
Big Rock CSD	X	X	X	X	X
Gasquet CSD	X	X	X	X	X
HRC CSD	X	X	-	X	X
Klamath CSD	X	X	X	X	X
Smith River CSD	X	X	X	X	X
Crescent Fire Protection District	X	X	X	X	X
Smith River Fire Protection District	X	X	X	X	X
Elk Valley Rancheria	X	X	X	X	X

HRC CSD did not participate in the 2019 HMP and did not have past projects to update.

DRAFT

2. UNINCORPORATED COUNTY OF DEL NORTE

This jurisdictional annex provides information to assist public and private sectors in the County of Del Norte with reducing losses from future hazard events. This annex is not guidance on what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of the unincorporated areas of Del Norte County, describes who participated in the planning process, assesses the unincorporated County's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

2.1 HAZARD MITIGATION PLANNING TEAM

The County of Del Norte identified primary and alternate HMP points of contact and developed this plan over the course of several months, with input from many County departments. Deborah Otenberg, Emergency Services Manager, Del Norte County Office of Emergency Services, represented the community on the Del Norte County HMP Planning Partnership and Steering Committee, and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 2-1 summarizes Del Norte officials who participated in the development of the annex and in what capacity. Additional documentation of the Del Norte's planning activities through Planning Partnership meetings is included in Volume 1.

Table 2-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Deborah Otenberg, Emergency Services Manager, Del Norte County Office of Emergency Services Address: 981 H Street, Suite 240 Crescent City CA 95531 Phone Number: 707-464-7255 Email: deborah.otenburg@co.del-norte.ca.us	Name/Title: Christina Smith, Fiscal Manager, Del Norte County Office of Emergency Services Address: 981 H Street, Suite 110 Crescent City CA 95531 Phone Number: 707-464-7214 Email: hkunstal@co.del-norte.ca.us
National Flood Insurance Program Floodplain Administrator	
Name/Title: Heidi Kunstal, Director of Community Development Address: 981 H Street, Suite, Crescent City, CA Phone Number: 707-464-7254 Email: hkunstal@co.del-norte.ca.us	
Additional Contributors	
Name/Title: Jessica Seaman, Emergency Services Coordinator, Del Norte County Office of Emergency Services Method of Participation: Community outreach, meeting attendance	
Name/Title: Jon Olson, County Engineer, Del Norte County Community Development Department Method of Participation: Contributed to worksheets	
Name/Title: Rosanna Bower, Assistant County Engineer, Del Norte County Community Development Department Method of Participation: Contributed to worksheets	

DRAFT

Primary Point of Contact	Alternate Point of Contact
Name/Title: Neal Lopez, Del Norte County Administrative Officer Method of Participation: Contributed to worksheets, reviewed draft plan	
Name/Title: Randy Hooper, Assistant County Administrative Officer Method of Participation: Contributed to worksheets, reviewed draft plan	

2.2 COMMUNITY PROFILE

Del Norte County is approximately 350 miles north of San Francisco located along U.S. Highway 101, at the far northwest corner of the state and represents the border between the states of Oregon and California, along the coast. The county has a total area of 1,230 square miles, of which 222 square miles (18.05 percent) is water. Two National Forests, the Six Rivers and Rogue River-Siskiyou, are partially located within Del Norte County. The Six Rivers National Forest includes the Smith River National Recreation Area which is managed by the United States Forest Service as well as portions of the Siskiyou Wilderness. The county is home to a portion of the Redwood National and State Parks which include the Del Norte Coast Redwoods State Park and Jedediah Smith State Park; in addition, the county is home to the Tolowa Dunes State Park, Ruby Van Deventer County Park, and Florence Keller County Park. Nearly 80 percent of the land mass in Del Norte County is owned by public entities including federal, state, and local governments as well as federally recognized tribes. There is one incorporated city, Crescent City (the county seat), located in the county as well as several unincorporated communities including Big Flat/Rock Creek, Fort Dick, Gasquet, Hiouchi, Klamath, and Smith River.

Del Norte County is the ancestral homeland of the Tolowa Dee-ni', Yurok Tribe, Pulikla Tribe of Yurok People, and Elk Valley Rancheria. All four federally recognized tribes stewarding distinct heritage and territory. The Yurok Tribe, one of California's largest, has maintained a profound spiritual, economic, and cultural dependence on the Klamath River, and over time, has reclaimed significant ancestral lands in the Blue Creek watershed. The Pulikla Tribe of Yurok People was established to provide trust land for landless Indigenous families. Despite devastating floods in 1964 that destroyed tribal infrastructure, they re-formed a governing council in 1975 and continue to uphold their cultural lifeways along the lower Klamath River. The Tolowa Dee-ni' Nation holds approximately 805 acres near Smith River and sustains a membership of over 1,800 citizens who continue their language, traditional management of redwood forests, and cultural practices. Elk Valley Rancheria was founded under the Landless California Indians Act of 1906 as a refuge for displaced Tolowa and Yurok people. The Elk Valley Rancheria is a federally recognized tribe located near Crescent City. Their membership includes descendants of Tolowa and Yurok ancestries, and they emphasize cultural preservation and community resilience rooted in ancestral ties.

Del Norte County is a general law county. The Board of Supervisors, which serves as the legislative and executive body for the county and many special districts, consists of five fulltime members with one member elected from each district. Pursuant to the California Government Code, the Board enacts legislation governing Del Norte County, determines overall policies for County departments, adopts the annual budget and fixes salaries. The Del Norte County Board of Supervisors assumes responsibility for the adoption of this plan and the Del Norte County Office of Emergency Services, in coordination with other local agencies, will oversee its implementation.

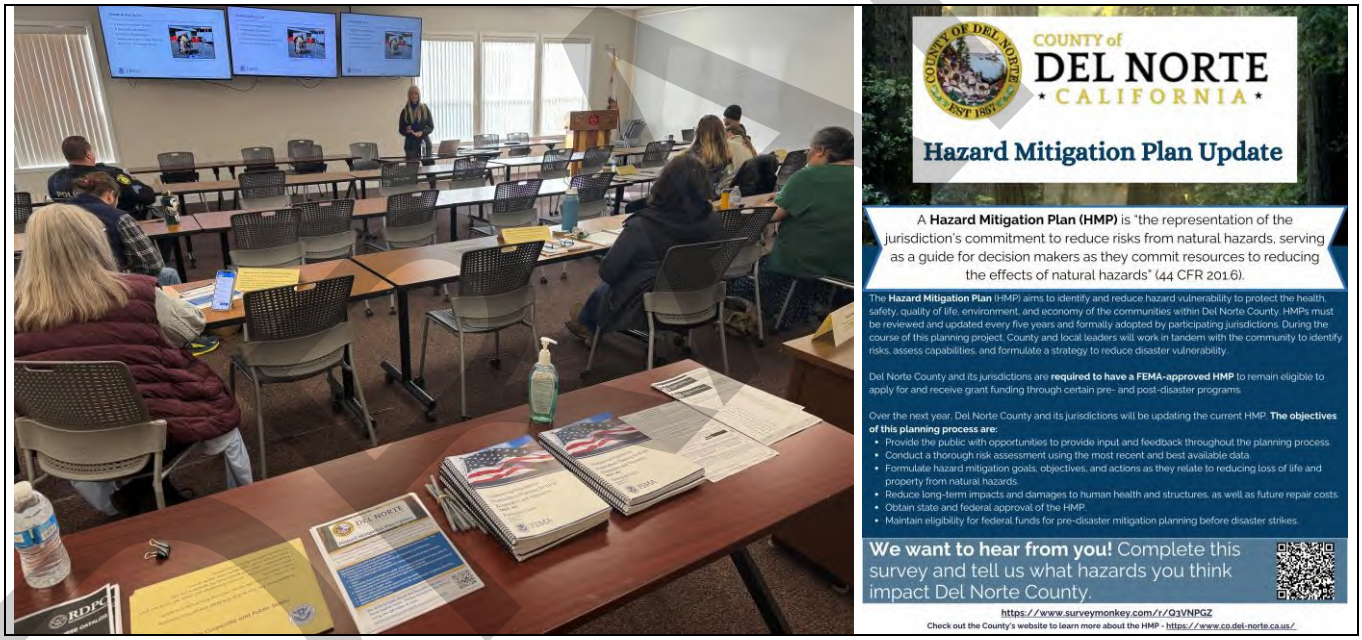
DRAFT

2.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores, hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

In April, Del Norte OES hosted a training by the Rural Domestic Preparedness Consortium about preparedness planning for underserved populations in rural areas. At the training, OES staff provided a brief update about the status of the HMP and printed hazard mitigation materials were available for participants. Figure 2-1 shows the training class and hazard mitigation materials.

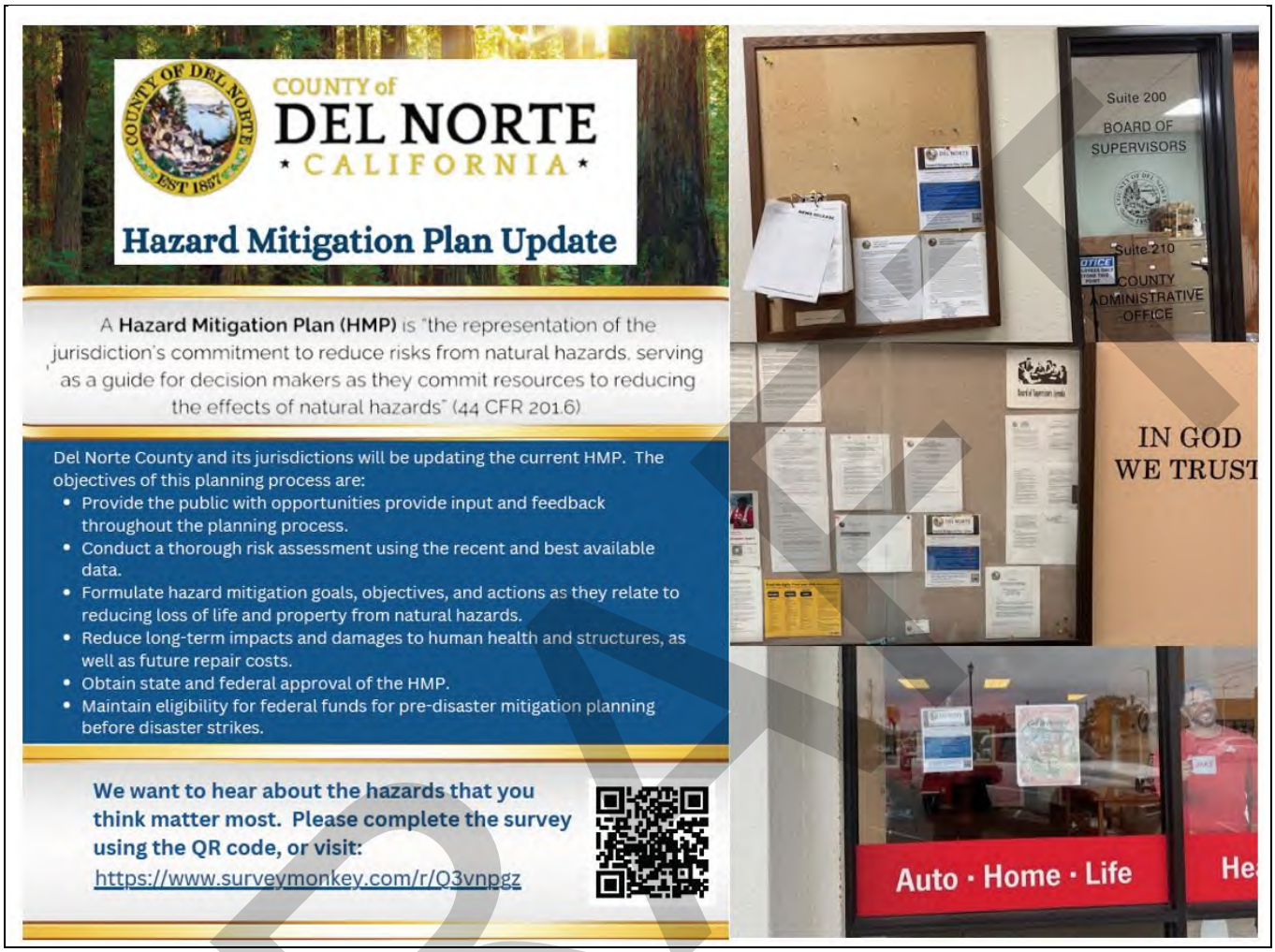
Figure 2-1. Public Outreach by Del Norte County



Considering the rural lifestyle of the County, OES staff made a major effort to post printed materials in community gathering spaces in Crescent City and unincorporated areas. Further evidence of this outreach is presented in the remaining chapters of this annex. Figure 2-2 shows the flyer that was posted in Crescent City, Gasquet, Smith River, and Hiouchi.

DRAFT

Figure 2-2. Hazard Mitigation Plan Flyers



2.3.1 Public Feedback Integration

Of the 196 responses to the public survey, 96 respondents reported that they were located in the unincorporated county. These 96 respondents were extremely or very concerned about excessive rain, tsunami, and wildfire. Respondents were not as concerned about drought and extreme heat. They reported receiving emergency information through mass notifications, government websites and newsletters, public meetings, television and radio, and Facebook. They expressed concern about wildfire in Gasquet, the closure of major highways, and power outages. The mitigation strategy was prioritized with these concerns and community limitations in mind.

2.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. This section focuses on the stakeholders invited to participate in the planning process by the County. The following organizations were invited to

DRAFT

participate by attending a Steering Committee meeting, responding to the stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan.

2.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Border Coast Regional Airport Authority
- Crescent City Harbor District
- Del Norte Regional Transportation Commission
- Del Norte Solid Waste Management Authority
- Elk Valley Rancheria
- Fire Safe Council
- Pulikla Tribe of Yurok People (formerly Resighini Rancheria)
- Redwood Coast Regional Center
- Redwood Coast Transit
- Tolowa Dee-ni' Nation
- Yurok Tribe

2.4.2 Agencies that Have the Authority to Regulate Development

- Del Norte Community Development Department

2.4.3 Neighboring Communities

- Curry County, OR
- Humboldt County
- Josephine County, OR
- Siskiyou County

2.4.4 Representatives of Business, Academia, and Other Private Organizations

- Del Norte Unified School District
- Pacific Power

2.4.5 Nonprofit Organizations and Community-Based Organizations

- Del Norte and Tribal Lands Community Food Council
- Mission Possible
- Open Door Community Clinic
- Red Cross Gold County

DRAFT

2.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Del Norte County performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. For this HMP, planning and policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Del Norte to identify opportunities for integrating mitigation concepts into ongoing county procedures.

2.5.1 Planning and Regulatory Capability and Integration

Table 2-2 summarizes the planning and regulatory tools that are available to Del Norte County.

Table 2-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Building Code	Yes	Del Norte County Code (DNCC) §14.04: Building Codes California Building Code (California Code of Regulations, Title 24)	County	Community Development Department
The County code sets forth multiple uniform industry codes as adopted by the State of California and applies to the unincorporated areas. The code includes provisions for several amendments relevant to risk reduction, such as regulating footing design to reduce structural damage from landslides or other soil movement events. The County Community Development Department's Building Inspection Division is responsible for the review and processing of permits for construction activities. The code does not apply to manufactured homes; the State Housing and Community Development has building permit jurisdiction in licensed manufactured home/RV parks. Does the building code have provisions to strengthen or elevate construction to withstand hazard forces? Not beyond the state building code requirement and local flood ordinances. Are there building codes in place that meet or exceed those outlined in the National Flood Insurance Program's guidelines for safe building practices? Yes, we meet the standard. We haven't adopted standards to exceed the NFIP guidelines. Do existing building codes include development standards for withstanding storm surge, wind damage, earthquakes, or other relevant natural hazards? Yes. State building codes & local flood ordinances.			

DRAFT

	Jurisdiction has this?	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Zoning/Land Use Code	Yes	DNCC §20: Zoning DNCC §21: Coastal Zoning	County, State	Community Development Department, California Coastal Commission

This zoning plan is adopted to provide for the promotion and protection of the public health, safety, peace, morals, comfort, convenience, and general welfare. The code includes provisions for risk reduction through the creation of multiple districts that identifies properties for which special regulations are necessary for the minimum protection of the public health and safety, and of property and improvements from hazards and damage.

The zoning code establishes three districts related to the flood hazard: FP-1 (Flood Zone Area Properties), FP-2 (Flood Overflow Area Properties), and FP-3 (Protected Areas Within Flood Zones). The code includes provisions that limit the types of uses and activities that can occur in flood-prone areas to minimize risk. Areas designated as Natural Hazard Area District (NH) are identified as potential natural hazard areas that are recommended for open space or very low density/intensity use. Land within the Timber Preserve Zone (TPZ) is to provide for timberland zoning and restrictions for a minimum ten-year period as a “timberland preserve.”

The County has a certified Local Coastal Program as authorized under the California Coastal Act. The Local Coastal Program include a land use plan and implementation plan (i.e. zoning requirements. The latter sets forth additional requirements and standards for structures in the County’s coastal zone. Provisions include requirements to minimize potential risks associated with coastal bluff hazards, tsunamis, and erosion or slope failure as well requirements to reduce impacts to environmentally sensitive habitat areas such as coastal wetlands.

The County has a density bonus ordinance to encourage higher density development in suitable areas. As state laws are amended, the County follows the superseded state law.

Does the zoning ordinance conform to the comprehensive plan in terms of discouraging development or redevelopment within natural hazard areas? Yes.

Does the ordinance contain natural hazard overlay zones that set conditions for land use within such zones? Yes, those are referenced above.

Does the ordinance prohibit development within, or filling of, wetlands, floodways, and floodplains? Policies in the County’s General Plan, Local Coastal Plan, and Chapter. 21.11 RCA 2 addresses wetlands. US Army Corps of Engineers, Coastal Commission and the State Water Resources Control Board (North Cast Water Quality Control Board also regulated impacts to wetlands. Chapters 20.47 & Ch. 20.45 of Del Norte County Code for flooding (Flood Damage Prevention ordinances),

Is a zoning code in place to encourage resilient development through density bonuses for projects outside of natural hazard areas? The County has a density bonus ordinance. It does not specifically reference the encouragement of its use outside of natural hazard areas but it is implied that it is to encourage higher density development in suitable areas (i.e. limited impacts from natural hazards).

Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use? There is nothing specific in our regulations but County staff considers constraints in any rezone application.

If applicable, is there a wildland-urban interface development code in place to prohibit or limit development in high wildfire risk areas? The County implements Chapter 7A of the California Building Code (CA WUI Code) and the State Minimum Fire Safe Regulations for new development within the designated areas.

DRAFT

	Jurisdiction has this?	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Subdivision Code	Yes	DNCC §Title16: Subdivisions Del Norte County 2003 General Plan: Section 3 – Land Use and Development	County	Community Development Department
The code applies to any subdivision that will create a parcel that does not have approved access to a maintained public street or highway and for which dedications or improvements are required by the legislative body. The subdivision code applies regulations and restrictions hillside development (i.e., land over 30 percent prior to grading) to minimize potential damage from instable slopes or other erosion hazards that may cause landslides or soil movement events. The code also aims to conserve the County's rural character in the Coastal Zone through the Rural Land Division Criteria by requiring developers to provide the area can support the additional density and uses. This provision supports conservation of the County's environmental resources and limits large increases in density that may increase risk exposure. Do the subdivision regulations restrict the subdivision of land within or next to natural hazard areas? While not included in Title 16 Subdivisions, the division of land in RCA Zones and TPZ zones are referenced in their respective chapters in Titles 20 and 21, Do the regulations provide for conservation subdivisions or cluster subdivisions to conserve environmental resources? Yes, see Chapter 20.45 D District Combining and 21.36 D Combining District. Do the regulations allow density transfers where hazard areas exist? No.				
Site Plan Code	Yes	DNCC §22.04: Environmental Guidelines and Procedures	County	Community Development Department
The County code puts forth Environmental Guidelines and Procedures that establish a method of reviewing site plans for projects which may have a significant effect on the environment, including effects that will cause substantial adverse effects on humans. The County must evaluate the project's benefits against its unavoidable environmental risks and, as relevant, identifies required mitigation standards that the developer must apply to minimize potential adverse impacts.				
Stormwater Management Code	Yes	DNCC §7.36.140: Health and Welfare - Erosion Control and Screening DNCC §12.04: Roads, Parks, and Waterways - Urban and Rural Public Road Standards DNCC §14.05.070: Building and Construction - Grading, Excavating, and Filling DNCC §20.47: Zoning - Flood Damage Prevention DNCC §21.45: Coastal Zoning - Flood Damage Prevention	County/ Regional	Community Development Department North Coast Regional Water Quality Control Board
The County has multiple provisions that allow it to oversee stormwater management, including the following: DNCC §7.36.140: Erosion Control and Screening – Surface mining operations must control surface drainage through the uses of dikes, barriers, and drainage structures to prevent stormwater from encroaching on state or county roads or private property. The county engineer must approve all provisions to control natural drainage and floodwaters during a surface mining operation. DNCC §12.04: Urban and Rural Public Road Standards – Drainage improvements shall be designed to carry runoff from a twenty-five-year storm for arterial roads and from a ten-year storm for all other roads. DNCC §14.05.070: Grading, Excavating, and Filling – Projects involving grading, excavating, and filling must submit plans for County review that assess existing area drainage and include detailed plans for proposed drainage channels, surface and subsurface drainage devices, and estimate runoff of the area served by any drains. DNCC §20.47 & §21.45: Flood Damage Prevention – The code includes provisions that limit the types of uses and activities that can occur in flood-prone areas to minimize risk.			

DRAFT

	Jurisdiction has this?	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Real Estate Disclosure	Yes	California Civil Code Section 1102 and 1103: Natural Hazard Disclosure Statement	State	Community Development Department
Sellers and agents must disclose if the property for sale is in one of six types of natural hazard zones: the Special Flood Hazard Area, dam failure inundation area, very high fire hazard zone, wildland fire area (i.e., state fire responsibility area), an earthquake fault zone, or a seismic hazard zone. For sales of certain properties, this disclosure must be made on a statutory form known as the Natural Hazard Disclosure Statement. Additionally, the Community Development Department provides natural hazard information for disclosure purposes to realtors as well as subdivision information to the Department of Real Estate for public records purposes.				
Growth Management	Yes	DNCC §20: Zoning DNCC §21: Coastal Zoning Del Norte County 2003 General Plan: Section 3: Land Use and Development	County/ Regional	County and CA Coastal Commission via Certified Local Coastal Program
The code aims to conserve the County's rural character in the Coastal Zone through the Rural Land Division Criteria by requiring developers to provide the area can support the additional density and uses. This provision supports conservation of the County's environmental resources and limits large increases in density that may increase risk exposure.				
Environmental Protection Ordinance(s)	Yes	DNCC §20: Zoning DNCC §21: Coastal Zoning DNCC §22: Environmental	County	Community Development Department
This County Code includes multiple provisions for the promotion and protection of the public health, safety, peace, morals, comfort, convenience, and general welfare specifically related to the conservation of natural resources and functions and associated hazards. The code includes provisions for risk reduction through the creation of multiple districts that identifies properties for which special regulations are necessary for the minimum protection of the public health and safety, and of property and improvements from hazards and damage.				
Flood Damage Prevention Ordinance	Yes	DNCC §20: Zoning DNCC §21: Coastal Zoning	County	Community Development Department
The Flood Damage Prevention ordinance identifies flood hazard areas that are subject to period inundation that results in loss of life and property and negative impacts to public health and general welfare. The ordinance includes provisions to reduce flood losses by restricting uses that may result in increased damage from erosion and flooding; requiring uses that are vulnerable to flood impacts be protected at the time of initial construction; controlling the alteration of natural floodplains, protective barriers, and other channels; controlling filling, grading, dredging, and other development which may increase flood damage; and regulating the construction of flood barriers that may increase flood hazards in other areas.				
Emergency Management Ordinance	Yes	DNCC §2.60: Emergency Organization and Function	County	Del Norte Disaster Council Office of Emergency Services
The code includes provisions to establish the Del Norte Disaster Council, enable the County to declare local emergencies, and empower the Director of Emergency Services to direct County efforts and cooperation between agencies to respond to emergencies and facilitate recovery activities.				

DRAFT

	Jurisdiction has this?	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Climate Change Ordinance	Yes	California Global Warming Solutions Act of 2006 (Assembly Bill [AB] 32)	State	California Air Resources Board, North Coast Unified Air Quality Management District
Del Norte County is subject to greenhouse gas regulations adopted by the California Air Resources Board and the North Coast Unified Air Quality Management District. The Regulation for the Mandatory Reporting of Greenhouse Gas Emissions is applicable to electricity generators, industrial facilities, fuel suppliers, and electricity importers. A summary of reported GHG emissions data reported under MRR are made public each year, and the data used by the Cap-and-Trade Program and included in California Greenhouse Gas Inventory.				
Other: Water Efficient Landscape Ordinance	Yes	Del Norte County Model Water Efficient Landscape Ordinance (2020)	County	Community Development Department
The ordinance promotes the conservation and efficient use of water and prevent water waste through landscaping practices and standards. Furthermore, it supports risk reduction by implementing proactive water conservation measures that may help reduce impacts or severity of drought or geological hazards.				
Planning Documents				
General Plan	Yes	Del Norte County 2003 General Plan - Section 2	Local	Community Development Department
The General Plan includes goals and policies to minimize damage to structures, property, and infrastructure caused by seismic, geologic, fire, and flood hazards. It includes provisions for the County to evaluate proposed projects and land use policy decisions based on FEMA Flood Insurance Rate Maps (FIRMs), California Mines & Geology Division Geology and Geomorphology Maps, California Department of Forestry AB6 Risk Maps, and US Army Corps of Engineers tsunami Run-up maps. It encourages low intensity and occupancy uses for these hazard areas when feasible. The accompanying resolution is compliant with AB 2140.				
Capital Improvement Plan	Yes	2023-2028 Capital Improvement Plan	Local	Board of Supervisors, Capital Improvements Committee
The Capital Improvements Committee supports the County's stated goal to "Identify, develop, and prioritize long range and short-range plans for meeting future buildings, facilities, roads, equipment, and recreational facility's needs" and to "Do everything within our power to ensure the public is provided with adequate and efficient infrastructure (i.e. transportation, sewer, roads, cable, water, etc.)." The Committee meets and updates the plan on an as-needed basis. Does the capital improvement program limit spending on projects that would encourage development in areas vulnerable to natural hazards? Yes, the Committee would analyze a project site to determine if it would be vulnerable to natural hazards. If a project site is determined to be subject to natural hazards that can't be mitigated in a fiscally and environmentally sensitive way, would be avoided and alternative sites would be considered. Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards? Yes. Does the capital improvement program provide funding for hazard mitigation projects identified in the FEMA Mitigation Plan? Yes.				
Disaster Debris Management Plan	Yes	Disaster Debris Management Plan (2021)	County	OEM
The Disaster Debris Management Plan provides guidance for post-disaster debris management to protect lives, health, safety, and the environment and to accelerate recovery. The plan will also provide a framework for the County as it pursues related hazard mitigation strategies, such as releasing a Request for Proposal for a post-disaster debris removal contract (DNC-20).				

DRAFT

	Jurisdiction has this?	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Floodplain Management or Watershed Plan	Yes	Del Norte County 2003 General Plan - Section 2: Safety and Noise	County	Community Development Department
The General Plan includes goals and policies to minimize damage to structures, property, and infrastructure caused by flood hazards. It includes provisions for the County to evaluate proposed projects and land use policy decisions based on FEMA Flood Insurance Rate Maps (FIRMs) and discourages inappropriate development in flood prone areas. Does the plan include policies that restrict development that would increase downstream flooding? The County's FIRMs have regulatory floodway designations along portions of the Smith River. Additional analysis is required in the Flood Damage Prevention Ordinances in Titles 20 & 21. Does the plan include policies that restrict development that would increase sedimentation or erosion? I believe the requirement above may also address these impacts.				
Stormwater Management Plan	Yes	Del Norte County 2003 General Plan - Section 1: Natural Resources/Conservation Del Norte County 2003 General Plan - Section 7: Public Facilities and Services	County	Community Development Department
The General Plan includes goals and policies to protect the sufficient water supplies and qualities in the County through provisions such as setbacks, vegetation maintenance procedures, and storm and surface drainage system requirements for new and existing developments. Does the stormwater master plan promote the use of porous building materials through incentive programs? No Does the stormwater master plan include green stormwater infrastructure in impaired watersheds? We don't have any state designated impaired watersheds. Does the stormwater master plan include stormwater management best practices in areas that flooding affects the most? Best Management Practices are included in requirements for grading, building and encroachments permits Does the placement of stormwater management projects prioritize socially vulnerable communities? Yes.				
Stormwater Pollution Prevention Plan	Yes	Del Norte County 2003 General Plan - Section 1: Natural Resources/Conservation	County	Community Development Department
The General Plan includes goals and policies to protect the sufficient water qualities in the County through provisions such as setbacks requirements and vegetation maintenance procedures.				
Economic Development Plan	Yes	Del Norte County 2003 General Plan - Section 3: Land Use and Community Development	County	Community Development Department
The Del Norte County General Plan includes goals and objectives to maintain a healthy and diverse local economy by designated areas for new businesses and associated public facilities and services, as well as encouraging the economic expansion of the County's unique recreational opportunities and natural resources. This includes provisions to encourage appropriate uses in certain areas, like the coastal zone, to minimize potential adverse impacts. Do economic development or redevelopment strategies include provisions for mitigating natural hazards? Consideration of natural hazards relative to any new development or redevelopment is considered as part of the environmental review conducted. Mitigation measures are required to address impacts.				
Community Wildfire Protection Plan	Yes	Del Norte County Fire Safe Council Community Wildfire Protection Plan (2020)	County	Del Norte County Fire Safe Council
The Plan encourages the protection and creation of defensible space to minimize potential damages to structures or harm to humans. It concurs with the Del Norte County HMP in terms of risk profiling, goals, and mitigation strategies. Mitigation priorities and strategies are integrated in this plan update. The CWPP is in the process of an update, to be released in 2026.				

DRAFT

	Jurisdiction has this?	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Community Forest Management Plan	Yes	Del Norte County 2003 General Plan: Section 1 – Natural Resources/Conservation	County	Community Development Department
The Del Norte County General Plan includes goals and objectives to conserve forest resources, enhance the quality and diversity of forest ecosystems, reduce conflicts between forestry and other uses, and to encourage a continued yield of forest products. The plan includes provisions to incorporate wild land fire risk hazard zones into the determination of zoning districts and potential appropriate development.				
Transportation Plan	Yes	Del Norte County 2003 General Plan: Section 8 – Transportation and Circulation	County	Community Development Department
The General Plan includes goals and objectives to ensure the safe ingress and egress of the County, including the provision of alternate emergency access in the event of temporary closures.				
Agriculture Plan	Yes	Del Norte County 2003 General Plan: Section 1 – Natural Resources/Conservation	County	Community Development Department
The Del Norte County General Plan includes goals and objectives to designate agricultural land and promote development of agricultural uses to support the continued viability of the County's agricultural economy. This includes provisions to conserve prime agricultural soils and vegetative land cover that can provide natural hazard mitigation functions, such as flood or landslide mitigation.				
Climate Action/ Resiliency/ Sustainability Plan	Completed	South Beach Climate Resilience Plan	County	Del Norte Local Transportation Commission
The South Beach Climate Resilience Plan grant project will be a climate adaptation planning document that includes climate adaptation strategies to address the closures of Anchor Way and US 101 in the South Beach area. Sea level rise and increased storm severity are increasing the frequency that Anchor Way and US 101 are closed due to ocean waves washing across those roadways, damaging the existing infrastructure, and depositing debris, requiring cleanup and repair efforts before those facilities can be opened back to public use.				
Response/Recovery Planning				
Emergency Operations Plan	Yes	Del Norte County Operational Area Emergency Operations Plan 2021	County	Office of Emergency Services
The Plan incorporates the risk rankings for each hazard from the County's 2019 HMP and focuses on both short-term response and long-term recovery activities. The County has multiple methods for emergency communications, including 911 systems and dispatch, Del Norte Community Alert System, Emergency Alert System, the Wireless Emergency Alert and Integrated Public Alert and Warning System, and the County Office of Emergency Service's website, social media, and listservs. These are designed to reach even remote areas of the County. The Plan empowers the County Sheriff or their designee to order evacuations and/or shelter-in-place orders across the County. There are hazard-specific annexes that focus on the special planning needs specific to specific type of event, including identifying hazard-specific risk areas and evacuation routes and specifying protocols for warning the public and disseminating emergency information. Does your CEMP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards? The Emergency Operations Plan and annexes address response, recovery, communications, evacuation, and sheltering. Is there an adopted evacuation and shelter plan to deal with emergencies from natural hazards? The Evacuation and Transportation Annex (2023) addresses evacuation. Staff are working internally to develop a mass care and shelter annex. Are evacuation routes located outside of floodplains, sea level rise inundation zones, or liquefaction zones? Yes. Are there emergency communication systems in place? Yes. The County can issue emergency alerts via "Everbridge" Community Alert System, Wireless Emergency Alerts, and Emergency Alert System. Sirens in coastal areas are also able to alert to tsunami hazards. Are those systems deployed in areas with the highest potential hazard exposure? Yes.				

DRAFT

	Jurisdiction has this?	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Continuity of Operations Plan	Yes	Del Norte County Continuity of Operations Plans	-	-
Each county department maintains a continuity plan. These plans ensure that critical operations and staff can be maintained during and following a disaster.				
Housing Element	Yes	Del Norte County 2022-2030 Housing Element	County	Community Development Department
The Housing Element is required to be updated on an 8-year cycle to demonstrate that the County has the ability to accommodate its share of the identified Regional Housing Need developed by the State of California. The Housing Element also establishes the goals and policies of the County with regard to housing over the next 5 years. The element's implementation plan includes provisions to incorporate new information on fire and flood hazards, as well as climate adaptation and resiliency strategies, as it becomes available and to identify residential developments in hazard areas that have limited emergency evacuation routes.				

2.5.2 Development and Permitting Capability

Table 2-3 summarizes the capabilities of Del Norte County to oversee and track development.

Table 2-3. Development and Permitting Capability

	Yes/ No	Comment
Do you issue development permits? • **If you issue development permits, what department is responsible?** • **If you do not issue development permits, what is your process for tracking new development?**	Yes	Del Norte County Community Development Department Building Inspection Division
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Yes, permits with Special Flood Hazard Area Zone are tracked as are permits that are located within the State Responsibility Area and subject to WUI Building Standards and the State Minimum Fire Safe Regulations.
Do you have a buildable land inventory? • **If you have a buildable land inventory, please describe**	No	-
Describe the level of buildout in your jurisdiction.	-	Adequate land remains available to accommodate the county's needs for future development. Cyclically, the California Department of Housing and Community Development determines a Regional Housing Need Allocation that identifies the number of new housing units that the local agency must plan for based on social and demographic factors (i.e. population growth, age, income, etc.). Del Norte County has responded to the Regional Housing Need Allocation, via the adopted Housing Element, and has demonstrated that sufficient land exists to accommodate the housing needs of the community over the planning period. In addition, there are numerous vacant parcels zoned commercial, manufacturing, and industrial to accommodate those development needs.

DRAFT

2.5.3 Administrative and Technical Capability

Table 2-4 summarizes potential staff and personnel resources available to Del Norte County and their current responsibilities that contribute to hazard mitigation.

Table 2-4. Administrative and Technical Capabilities

Resources	Available?	Comment
Administrative Capability		
Planning Board	Yes	Planning Commission
Zoning Board of Adjustment	No	-
Planning Department	Yes	Community Development Department Planning Division
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	Natural Resources & Environmental Coordination Technical Advisory Committees, Environmental Review Committee
Open Space Board/Committee	No	-
Economic Development Commission/Committee	Yes	Technical Advisory Committees
Public Works/Highway Department	Yes	Roads Division of Community Development Department
Construction/Building/Code Enforcement Department	Yes	Community Development Department Code Enforcement Division and Building Inspection Division
Emergency Management/Public Safety Department	Yes	Office of Emergency Services
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The Community Development Department Engineering and Surveying Division maintenance programs for roads, utilities, community lifelines, and other County assets.
Mutual aid agreements	Yes	A countywide mutual aid agreement is on place in Del Norte County and all local fire districts and departments are a signatory to the agreement. In addition, Del Norte fire agencies have been involved with reciprocal mutual aid agreement with Humboldt County fire agencies. Mutual aid agreements with counties in southern Oregon and nearby tribes.
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	Yes	Del Norte County is a general law county. The Board of Supervisors, which serves as the legislative and executive body for the county and many special districts, consists of five full-time members with one member elected from each district. Pursuant to the California Government Code, the Board enacts legislation governing Del Norte County, determines overall policies for County departments, adopts the annual budget and fixes salaries. The Del Norte County Board of Supervisors assumes responsibility for the adoption of this plan and the Del Norte County Office of Emergency Services, in coordination with other local agencies, will oversee its implementation.

DRAFT

Resources	Available?	Comment
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	CDD / Director, Deputy Director of the Public Works Branch, Engineering Division staff, and Planning Division staff
Engineers or professionals trained in building or infrastructure construction practices	Yes	CDD / Engineering Division staff and Building Inspection Division staff
Planners or engineers with an understanding of natural hazards	Yes	CDD / Director, Deputy Director of the Public Works Branch, Engineering Division staff, and Planning Division staff
Staff with expertise or training in benefit/cost analysis	Yes	Multiple Departments
Professionals trained in conducting damage assessments	Yes	On-Call agreements with consultants
Personnel skilled or trained in GIS and/or Hazus applications	Yes	IT / GIS Coordinator, CDD / Planning Division staff
Staff that work with socially vulnerable populations or underserved communities	Yes	Del Norte Department of Health and Human Services Branches of Behavioral Health, Public Assistance/Employment & Training, Public Health, and Social Services
Environmental scientists familiar with natural hazards	Yes	Department of Health and Human Services (DHHS) / Public Health Officer, CDD / Environmental Health Division staff
Surveyors	Yes	CDD / Engineering & Surveying Division staff and On-call agreements with consultants
Emergency manager	Yes	Administration / CAO, Assistant CAO, Emergency Services Manager, Sheriff's Office / County Sheriff
Grant writers	Yes	Multiple Departments
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	Yes	CDD / Roads Division (i.e. public works) staff.

2.5.4 Fiscal Capability

Table 2-5 summarizes financial resources available to Del Norte County.

2.5.5 Education and Outreach Capability

Table 2-6 summarizes the education and outreach resources available to Del Norte County.

2.5.6 Community Classifications

Table 2-7 summarizes classifications for community programs available to Del Norte County.

DRAFT

Table 2-5. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes. User fees for sewer service (CSA Area #1)
Impact fees for homebuyers or developers of new development/homes	Yes - Del Norte County Unified School District requires mitigation fees new development projects within in its district. These fees are for contributing to the funding of the construction, maintenance, and expansion of school facilities and helping accommodate the expanding educational needs.
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	Yes
Other federal or state funding programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Yes. Federal-sponsored grant programs, such as FEMA Hazard Mitigation Assistance.

DRAFT

Table 2-6. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	No	-
Personnel skilled or trained in website development	Yes	-
Hazard mitigation information available on your website	Yes	Emergency Services hosts information related to hazard mitigation on division website.
Social media for hazard mitigation education and outreach	Yes	Emergency Services maintains a social media presence (i.e. Facebook) for quick dissemination of hazard mitigation information.
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Drought Resilience Task Force (subgroup of the Natural Resources and Environmental Coordination Technical Advisory Group)
Warning systems for hazard events	Yes	Community alert system "Everbridge" can be deployed during hazard events for mass community notification as well as tsunami sirens in coastal areas. The County also has Wireless Emergency Alert and Emergency Alert System capabilities for alerting. Genasys Evacuation Map is used to communicate evacuation zones.
Natural disaster/safety programs in place for schools	Yes	Programs align with Office of Emergency Services outreach.
Organizations that conduct outreach to socially vulnerable populations and underserved populations	Yes	Del Norte Department Health and Human Services Branches of Behavioral Health, Public Assistance/Employment & Training Public Health, and Social Services, Office of Emergency Services, Redwood Regional Coast Center Organizations that work with seniors Tri-County agency on aging Mission Possible
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	Yes	The Prepare Del Norte website promotes disaster preparedness to the public. Emergency Services collaborates with local media (i.e. newspaper, radio, etc.) for communication of hazard related information Monthly radio program (Preparedness Radio)

DRAFT

Table 2-7. Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	04 for 1 and 2 family residential property and 03 for commercial and industrial property.	2022
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
National Weather Service StormReady Certification	No	-	-
Firewise Communities classification	No	-	-
NWS TsunamiReady	In Progress	-	-

2.5.7 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 2-8 summarizes the adaptive capacity for each identified hazard of concern and the County's capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

Table 2-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Moderate
Extreme Heat	Moderate
Extreme Wind	Moderate
Excessive Rain	Moderate
Earthquake	Low
Flood	Moderate
Landslide	Moderate
Tsunami	Moderate
Wildfire	Moderate

DRAFT

2.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the National Flood Insurance Program (NFIP). The floodplain administrator listed in Table 2-1 is responsible for maintaining this information.

2.6.1 Repetitive Loss

The Open FEMA NFIP Multiple Loss Properties dataset was analyzed to gain an understanding of repetitive flood loss in the County. The dataset provides information on structures that have had multiple NFIP claims across the history of the program. Table 2-9 summarizes the repetitive loss and severe repetitive loss properties in the County.

Table 2-9. Repetitive Loss Summary

Type of Repetitive Loss	Residential	Non-Residential
Repetitive Loss Properties (NFIP definition)	1	1
Repetitive Loss Properties (FMA definition)	0	0
Severe Repetitive Loss Properties (NFIP definition)	0	0
Severe Repetitive Loss Properties (FMA definition)	0	0

Source: (FEMA 2024)

NFIP Definition of Repetitive Loss: The NFIP defines a repetitive loss property as any insurable building for which two or more claims of more than $1,000 were paid by the NFIP within any rolling 10-year period since 1978.

FMA Definition of Repetitive Loss: FEMA's Flood Mitigation Assistance (FMA) program defines a repetitive loss property as any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

NFIP Definition of Severe Repetitive Loss: A residential property covered under an NFIP flood insurance policy and: (a) That has at least four NFIP claim payments over $5,000 each, and the cumulative amount of such claims payments exceeds $20,000; or (b) For which at least two separate claims payments have been made with the cumulative amount of the building portion of such claims exceeding the market value of the building. In both instances, at least two of the claims must be within 10 years of each other, and claims made within 10 days of each other will be counted as one claim.

FMA Definition of Severe Repetitive Loss: An NFIP-Insured structure that has incurred flood-related damage for which four or more separate claims payments have been made, with the amount of each claim (including building and contents payments) exceeding $5,000, and with the cumulative amount of such claims payments exceeding $20,000; or for which at least two separate claims payments (building payments only) have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the building.

2.6.2 Flood Vulnerability Summary

Table 2-10 provides a summary of the NFIP program in Del Norte County.

DRAFT

Table 2-10. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction.	Flooding along the Pacific coast near Crescent City is often associated with the simultaneous occurrence of very high tides, large waves, and storm swells during the winter. Riverine flood hazard areas in Del Norte County are limited to the Smith River, Klamath River and Elk Creek systems because these are the river systems where development has occurred in or near the floodplain.
Do you maintain a list of properties that have been damaged by flooding?	No, because we have not been advised of any properties damaged by flooding.
Do you maintain a list of property owners interested in flood mitigation? • How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	No, we do not maintain a list of property owners interested in flood mitigation as we have not received any interest from the public.
Are any RiskMAP projects currently underway in your jurisdiction? • If so, state what projects are underway.	No
How do you make Substantial Damage determinations? How many were declared for recent events in your jurisdiction?	We would ask the property owner to have the structure appraised by a qualified appraiser to determine whether the cost of restoring the structure to its before-damaged conditions would equal or exceed fifty percent of the market value of the structure before the damage occurred. No Substantial Damage request or determinations have been made in recent events.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? • If there are mitigated properties, how were the projects funded?	None that county staff is aware of.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? • If not, state why.	Yes
NFIP Compliance	
What local department is responsible for floodplain management?	Community Development Department; the Director of CDD is floodplain administrator.
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	Yes through State- and FEMA-funding sea level rise studies and regulations.
Does your floodplain management staff need any assistance or training to support its floodplain management program? • If so, what type of assistance/training is needed?	No
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit review, education, inspections.

DRAFT

NFIP Topic	Comments
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	We begin with the valuation of the permit compared to the value of the structure based on Assessor's Records. We also offer the applicant the option of having a qualified appraiser prepare an appraisal of the structure to establish the value. If the cost of the improvement exceeds 50% of the value of the home, the structure will need to meet the standards of the Flood Damage Prevention Ordinance.
What are the barriers to running an effective NFIP program in the community, if any?	Frequency and location of training for staff.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? • If so, state the violations.	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	2014
What is the local law number or municipal code of your flood damage prevention ordinance? • What is the date that your flood damage prevention ordinance was last amended?	May 26, 2009 (Ord. No. 2009-010)
Does your floodplain management program meet or exceed minimum requirements? • If exceeds, in what ways?	Meets, but the state building code requires a minimum of 1-foot above the base flood elevation while the ordinances say at or above the base flood elevation. The state has prepared a model ordinance that incorporates the state building codes into the NFIP regulations and the county will seek approval for this change in the near future.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes, the County is able to support floodplain management and meet NFIP requirements through several ordinances found in its County Code, including DNCC §7, §12, §14, §20, §21, and §22.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	The County does not participate in CRS but is potentially interested in joining the program.

2.7 JURISDICTIONAL RISK ASSESSMENT

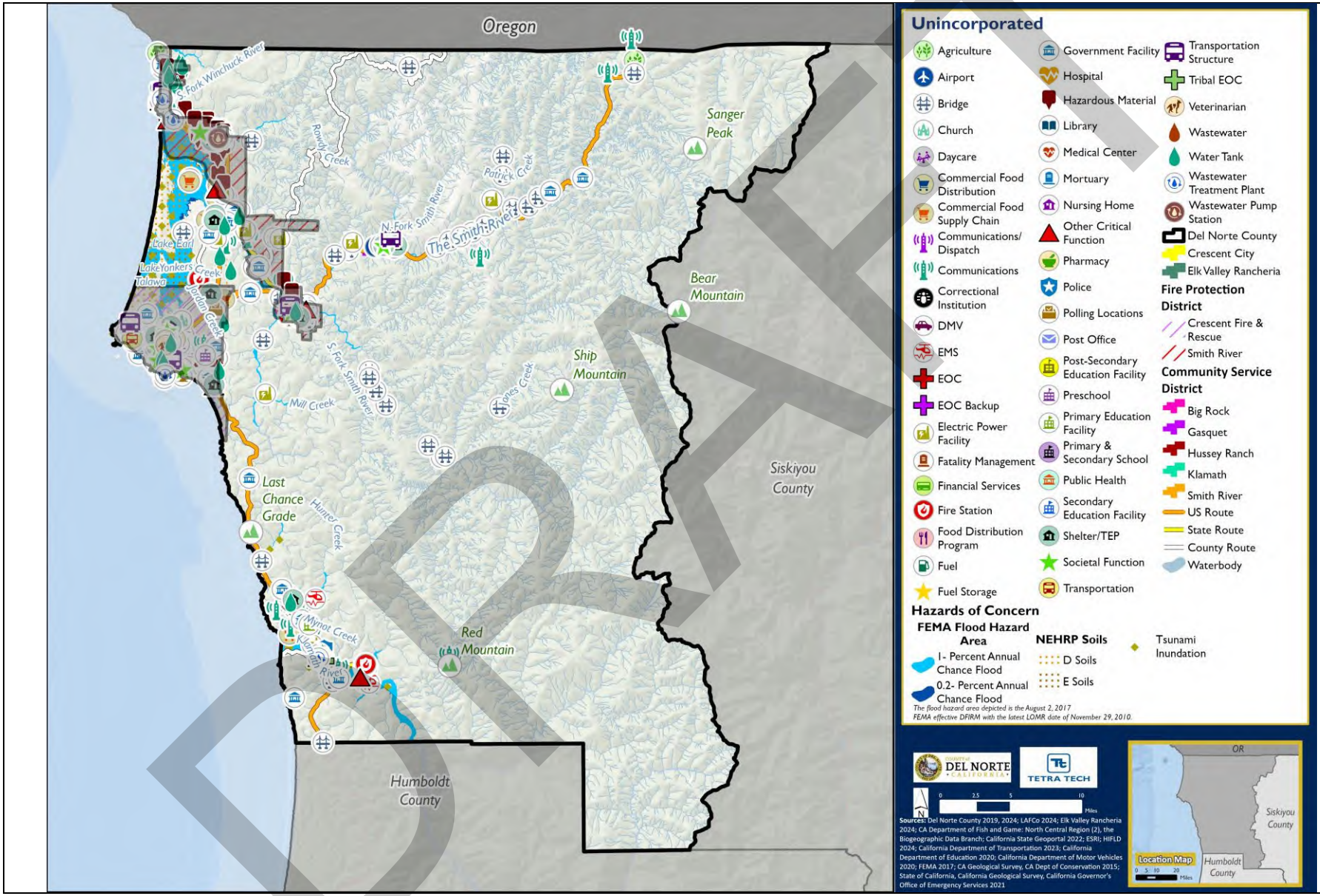
The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to identified hazards, including summaries of Del Norte County's risk assessment and data used to determine the hazard ranking. Key local risk assessment information is presented below.

2.7.1 Hazard Area

Hazard area maps provided below illustrate the probable hazard areas impacted within the county are shown in Figure 2-3 and Figure 2-4. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Del Norte County has significant exposure. The maps show the location of potential new development, where available.

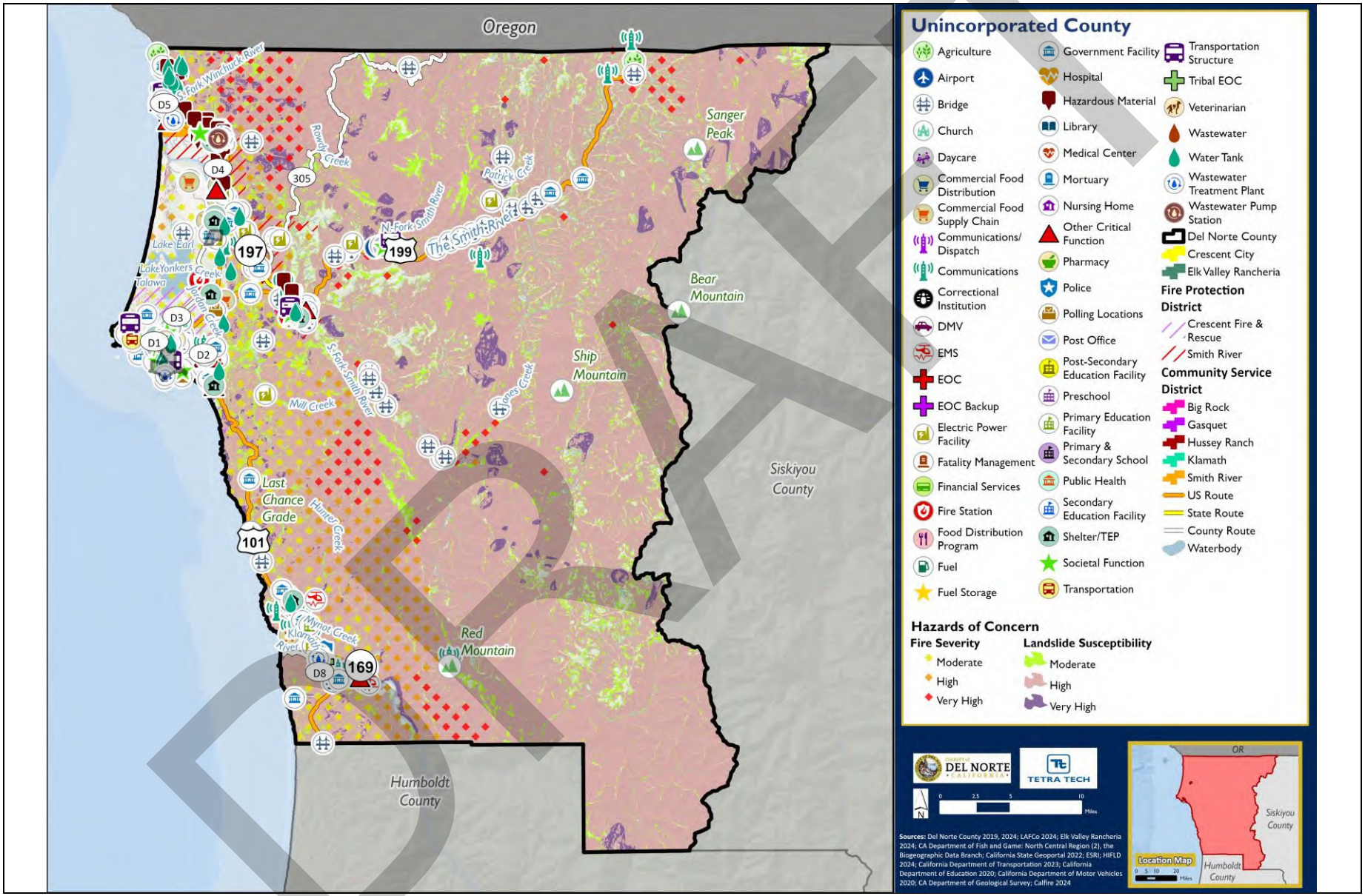
DRAFT

Figure 2-3. Del Norte County Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location



DRAFT

Figure 2-4. Del Norte County Wildfire and Landslide Hazard Area Extent and Location



DRAFT

2.7.2 Hazard Event History

The history of natural and non-natural hazard events in unincorporated Del Norte County is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 2-11 provides details on loss and damage in unincorporated Del Norte County during hazard events since the last hazard mitigation plan update.

Table 2-11. Hazard Event History in Unincorporated Del Norte County

Dates of Event	Event Type	Declared Event?	Summary of Event	Summary of Damage and Losses in Unincorporated Del Norte County
February 24 to March 1, 2019	Severe Storm	DR-4434-CA	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	None
July 23, 2019	Terrorist Attack	No	On July 23, Ricin was discovered in an envelope during the mail screening process in the mailroom of Pelican Bay State Prison.	Several individuals working in the prison were exposed to Ricin, and some were hospitalized. A small amount of the substance inadvertently made it outside of the prison grounds, potentially exposing members of the public. No deaths resulted from the attack.
January 20, 2020 to May 11, 2023	Pandemic (COVID 19)	January 20, 2020 to May 11, 2023	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and in July of 2022.	Del Norte County reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023. Economic impacts due to business closures, especially in hospitality industry. Strain on limited capacity of hospital/medical care, emergency management, public health, and public safety.
September 8 to November 17, 2020	Wildfire	DR-4569-CA CA20-3	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. The Slater Fire near Happy Camp in Siskiyou County began on September 8, 2020. The fire crossed the border into Del Norte County the morning of September 9, resulting in a sudden short-term evacuation of the Gasquet community. The fire burned the area around the Collier Tunnel near the California/Oregon border. The fires was contained on November 16, 2020.	The fire burned 166,127 acres of land across the Klamath, Six Rivers, and Rogue-Siskiyou National Forests. In Del Norte, the fire burned the forested area surrounding the Collier Tunnel and rest area. Highway 199 was closed for 11 days from Pioneer Rd to the border. The fires destroyed two homes in Del Norte County, and damaged culverts on several County maintained roads, including Oregon Mountain Rd.

DRAFT

Dates of Event	Event Type	Declared Event?	Summary of Event	Summary of Damage and Losses in Unincorporated Del Norte County
January 15, 2022	Tonga Volcano Tsunami	No	The Hunga Tonga submarine volcano erupted in the South Pacific, sending tsunami waves toward the West Coast of the United States. Due to infrequent eruption-triggered tsunamis, experts were initially uncertain of impacts and timing for the U.S. West Coast. The tsunami arrived in Del Norte at about 8:00 am the morning of January 15, arriving at about the same time as high tide.	Fishing boat owners rushed to get boats out to sea before the initial waves arrived, while County and City staff and first responders worked to notify community members of the potential danger. Tsunami waves as high as 3.7 feet were recorded in Crescent City. The tsunami resulted in strong currents, but no inundation. No significant damage or injuries were reported in Del Norte.
April 28, 2022	Hazardous Materials Spill	No	On the morning of April 28, a drunk driver in a Freightliner truck driving the narrow curves along Highway 199 near Gasquet crashed into a power pole and lost control. Over 2000 gallons of hot asphalt binder were spilled down the embankment, some of which made its way into the pristine Smith River.	Spill resulted in short-term closure of Highway 199. Clean up efforts took many months as the consistency of the tar evolved depending on water temperature.
December 9 to 10, 2022	High Wind	No	Winter storms with high winds began in late November 2022 in far Northern CA, including Del Norte County. Winds intensified December 9-10, causing travel and power impacts.	A tree fell on a vehicle causing a collision. Power lines fell across Highway 197 and 199 due to high wind gusts.

DRAFT

Dates of Event	Event Type	Declared Event?	Summary of Event	Summary of Damage and Losses in Unincorporated Del Norte County
December 27, 2022 to January 31, 2023	Thunderstorms, High Wind, Coastal Flood	DR-4683-CA CA23-1	Atmospheric river led to multiple heavy rainstorms and strong winds from late December through the end of January. During the declared disaster period of December 27, 2022 through January 31, 2023, coastal Del Norte experienced 28 days of wind gusts exceeding 20 mph, 22 days with gusts over 30 mph, 16 days over 40 mph, 7 days over 50 mph, and 1 day with 60 mph gusts. Large wind-driven waves battered local beaches.	Strong winds caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused small fires and numerous outages. Over 10,000 customers experienced some time without power. There were 14 reported outages affecting over 500 people during the disaster period. Winds damaged the roof at Jack McNamara Field airport, fell trees at Crescent City's Beachfront Park, and shredded outfield nets at Pyke Field. Saturated soils along Highway 101 at Last Chance Grade led to a landslide that closed the highway for several hours. High surf damaged the groin in the harbor and caused coastal flooding on Highway 101 at South Beach, leading to a full short-term closure.
February 21 to July 10, 2023	Severe Winer Storm, Snow, Ice, Flood	DR-4699-CA EM-3592-CA CA23-3	Severe winter storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199. Low temperatures were well below normal for most of February. Many feet of snow fell in local mountains. Snow fell at sea level on February 23. Crescent City saw up to 5.5" of snow fall over the course of two days.	Snow and ice on roads led to necessary closures of government offices and many businesses. Higher elevations saw above average snow levels. After several weeks of unrelenting snowfall, several residents in local mountains required rescue. Unusually cold temps and snow and ice created the need for several daytime warming centers and overnight shelters to protect unhoused community members.

DRAFT

Dates of Event	Event Type	Declared Event?	Summary of Event	Summary of Damage and Losses in Unincorporated Del Norte County
August 15, 2023	Wildfire, Extended Power Outage	CA23-5	The Smith River Complex fires began on August 15, when dry thunderstorms produced ~150 lightning strikes across the Six Rivers National Forest, igniting dozens of fires, including 12 within the Gasquet Ranger District. Steep, rugged terrain prevented some immediate suppression efforts and dry fuels caused the fires grew in size rapidly, threatening populated areas. The fire also damaged the transmission lines powering Del Norte. Over 95,000 acres had burned by November 13, when the fires were declared controlled and contained.	The Smith River Complex fires caused a multi-week closure of Highway 199, followed by several months of partial closures during repair and recovery work. Over 1000 residents were evacuated, some for several weeks. The evacuation shelter saw as many as 160 guests nightly, while the animal shelter cared for several dozen animals. Fires threatened Del Norte's only power transmission corridor, resulting in de-energization that left 27,000+ residents without power for 3-7 days until the entire County was temporarily powered by large generators. Several residences and outbuildings were destroyed in the fires. Economic impacts resulted from highway closures, power outages, business closures and reduced tourism. Continued closures of Highway 199 caused supply chain disruptions, economic impacts, and hindered access to medical services.
January 13, 2024	High Wind, Heavy Rain, Riverine and Surface Flooding	No	An atmospheric river resulted in 8"-10" of rainfall over the course of 72 hours in Del Norte. Widespread creek and surface flooding resulted. The Smith River exceeded Flood Stage, reaching 34+ feet, causing flooding of nearby roadways.	Excessive rainfall resulted in flooding in the Lake Earl and Klamath areas and necessitated road closures. The County had to perform an emergency breach of Lake Earl to allow water to flow to the ocean and prevent damage to nearby properties. Landslides occurred throughout the County, including major slides on City and County property along Pebble Beach drive.
March 1 to 6, 2024	High Wind, Heavy Rain, Debris Flow	No	Hail storm and significant rainfall event. Storm caused downed trees and landslides.	Downed trees and landslides blocked Highway 101 near Crescent City and 199 near Gasquet.
March 23 to 24, 2024	High Wind, Heavy Rain	No	Rainfall and strong winds led to multiple instances of rockfall and landslides.	Numerous road closures occurred throughout the storm period. The storm downed a tree on Highway 199.

DRAFT

Dates of Event	Event Type	Declared Event?	Summary of Event	Summary of Damage and Losses in Unincorporated Del Norte County
(Ongoing) **December 14, 2020** **February 15, 2021** **December 3, 2023** **February 16, 2024**	Landslides; Last Chance Grade	No	Landslides occur frequently along Highway 101 at Last Chance Grade, cutting Del Norte County in half, isolating the southern portion from services and the northern portion from the rest of the state. Over 200 active and historic slides are documented in the area, causing the road to shift vertically and horizontally by several dozen feet in some sections. Stabilization work had the highway reduced to one-way, escorted traffic for 9 years before it reopened to two-way traffic in October of 2023. December 14, 2020: Small slide at Last Chance shut down the only open lane on the highway for several hours. February 15, 2021: ~40,000 cubic yards of debris material mobilized as result of saturated soils. Resulted in a several day, full highway closure. December 3, 2023: After 4-6" of rainfall fell in a 48-hour period, a landslide at Last Chance Grade pushed through a retaining wall, causing a temporary closure. February 16, 2024: Saturated soils caused a large landslide to cover both lanes of the highway, leading to a full overnight closure.	Each closure at Last Chance Grade impacts the passage of goods, medical supplies, travelers, and emergency responders. With most business activity and services being located in the northern part of Del Norte, and the only alternate route to Klamath being a 7+ hour detour, closures at Last Chance Grade threaten to strand commuters and school children. Closures have economic impacts for Del Norte due to lost business activity, reductions in tourism, and other losses. During Covid, closures and delays due to slide activity and resulting road work at Last Chance Grade impacted Del Norte's ability to access critical Covid tests and vaccines.
(Ongoing) **December 14, 2020** **February 15, 2021** **December 3, 2023** **February 16, 2024**	Landslides; Klamath Beach Road	No	Landslides along Klamath Beach Road in Klamath are common. This road houses a small number of year-round residents, and a larger number of temporary campers during Spring and Summer. This road is the access road for the Alder Camp Conservation Camp and the Klamath dump. April 24, 2023: A landslide on Klamath Beach Rd. caused a short-term full closure, and several days of one-lane passage through the area. February 9, 2024: A significant landslide closed the road for several hours, temporarily stranding residents and visitors. Travel through the area was limited to residents and workers for several days while cleanup work was completed.	Landslides in this area have stranded visitors, residents, and Alder Camp Conservation Camp staff. County Roads Department has been able to reopen road quickly enough that rescues have not been required.

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

DRAFT

2.7.3 Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for unincorporated Del Norte County.

Hazard Ranking

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. Unincorporated Del Norte County reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the county indicated the following:

- Drought in Del Norte has not been extreme and has not had severe impacts.
- Extreme temperatures are rare in Del Norte. Coastal temperatures are mild year-round. Temperatures rarely reach above 80 degrees or dip below freezing in the more populated coastal areas. Extreme heat events are relatively rare and have been limited to less populated, inland areas.
- Extreme wind events are fairly common and come with cascading effects of landslides and power outages.
- Excessive rainfall is also common. Once the ground is saturated, landslides and power outages follow.
- While crustal earthquakes are not common here, a Cascadia Subduction Zone earthquake will have devastating impacts. We can also experience damages from a large earthquake on the Mendocino Triple Junction, which occur with higher frequency.
- We experience flooding impacts with nearly every major storm, especially later in the storm season as the ground is saturated.
- Landslide impacts can be severe in Del Norte due to limited transportation and supply routes.
- While only the coastal areas of Del Norte are vulnerable, a large tsunami will impact our major transportation routes, supply chain, power, fuel, government operations and other critical infrastructure.
- While the areas at highest risk of wildfire are State or Federal lands, impacts from wildfire can include long-term power outages, evacuations, power and fuel impacts, air quality impacts, and transportation and supply chain impacts.

Table 2-12 shows Del Norte County's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

DRAFT

Table 2-12. Hazard Ranking

Hazard	Rank
Drought	Low
Extreme Temperatures	Low
Extreme Wind	Medium
Excessive Rain	Medium
Earthquake	Medium
Flood	Medium
Landslide	Medium
Tsunami	Medium-High
Wildfire	High

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

2.7.4 Identified Issues

After review of Del Norte's hazard event history, hazard rankings, hazard location, and current capabilities, the county identified the following vulnerabilities within the community:

Flooding

- There are estimated to be 280 structures within the 1-percent annual chance flood hazard area, but there are only 162 flood insurance policies in force within the unincorporated areas of the county. Most of these structures are believed to be residential.
- Andy McBeth Airport (a County-owned public use airport located in Klamath Glen) is located in the 1-percent annual chance flood hazard area.

Earthquake

- More than 65 percent of the housing stock was built before modern seismic codes were in force.
- Many critical facilities are located in Type D soils, which may be prone to liquefaction. These facilities include the Del Norte County Courthouse, Del Norte County Library, Del Norte County Flynn Administrative Center, Del Norte County Roads Division, Del Norte County Youth Opportunity Center, Del Norte County Agriculture Department, Del Norte County Drug and Alcohol Services, Del Norte County Health and Social Services Department, Del Norte County Sheriff's Office, among others.

Landslide

- More than 30 percent of the structures in Gasquet, Hiouchi, and Smith River are believed to be located in very high or high landslide susceptibility zones.
- There are 10 County Highway Agency bridges believed to be located in very high or high landslide susceptibility zones.

Tsunami

DRAFT

- There are estimated to be more than 1,476 people living in tsunami inundation zones in the unincorporated areas of the county.
- There are a number of critical facilities located in tsunami inundation zones including the Del Norte County Courthouse, Del Norte County Library, Del Norte County Roads Division, Del Norte County Youth Opportunity Center, Del Norte County Drug and Alcohol Services, and Del Norte County Sheriff's Office, among others.

Wildfire

- More than 14,000 people are estimated to live in the moderate, high, and very high fire hazard severity zones.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

2.8 CONDITIONS THAT MAY IMPACT RISK

2.8.1 Population Pattern Trends

As noted in Volume 1, the population of Del Norte County is expected to decline over the next 45 years. While this means fewer people will be at risk from the natural hazards identified in this plan, this also means that there will be a smaller pool of people to draw volunteers from. This is especially precarious for volunteer fire departments, who rely on volunteers to save lives and property.

2.8.2 Changes in Land Use and Development

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction's overall risk to its hazards of concern. The number of building permits issued since the prior HMP are shown in Table 2-13.

In general, the County does not have a lot of development compared to the rest of the state. There is one major residential development currently in progress, as summarized in Table 2-14. There are no major residential or commercial development projects planned to break ground over the next five years.

2.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

DRAFT

Table 2-13. Number of Building Permits for New Construction Issued Since the Previous HMP

	New Construction Permits Issued			
	Single Family	Multi-Family	Other (commercial, mixed-use, etc.)	Total
2019				
Total Permits	49	4	1	54
Permits within SFHA	0	0	0	0
2020				
Total Permits	42	9	0	51
Permits within SFHA	2	0	0	2
2021				
Total Permits	34	16	2	62
Permits within SFHA	0	0	0	0
2022				
Total Permits	47	22	1	70
Permits within SFHA	0	0	0	0
2023				
Total Permits	36	36	0	72
Permits within SFHA	1	0	0	1

SFHA = Special Flood Hazard Area (1% flood event)

Table 2-14. Recent Major Development and Infrastructure from 2019 to Present

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
Redwood Harbor Duplex Housing Development	Residential – Duplex & Triplex	44 Duplexes (88 Units) 5 Triplexes (15 Units)	Winding Creek Circle, Emerald Creek Drive, Various Parcel IDs Book 116 Page 31 of Assessor Parcel Maps	None identified.	Ongoing.
Dat-naa-svt Village Project	Residential community – Tolowa Tribal Citizens	27 homes in a village community	12801 Mouth of Smith River Rd. Smith River, CA	Moderate Landslide	Ongoing

* Only location-specific hazard zones or vulnerabilities identified.

2.9.1 Past Mitigation Action Status

Table 2-15 indicates progress on the county's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

DRAFT

Table 2-15. Status of Previous Mitigation Actions

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-1	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard areas.	Building Maintenance Department	No Progress	Yes	Need for mitigation strategies (retrofitting, purchase and relocation) of existing structures in hazard areas. There are only repetitive loss properties in Del Norte County- believed to not be County owned Project will be updated to be specific to critical county owned facilities. This is a long-term project (jail, dispatch etc.) that will not be completed in 5 years. The project needs to reflect actions that will be reasonable within the time period or state that it is a longer-term project. OES will help to identify facilities needing retrofit/relocation, and work to identify funding. Building maintenance will be secondary as a responsible party	Flood, earthquake, tsunami, landslide, wildland fire
DNC-2	Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including the General Plan, the Local Coastal Program, and the County Code.	Community Development Department	In Progress. The General Plan Safety Element was amended on May 11, 2021, to incorporate the HMP. A subsequent amendment will be needed to incorporate the HMP 2024 into the General Plan	Yes	Need for HMP to be integrated into General Plan and other plans, and to guide development ordinances and programs.	Dam failure, drought, earthquake, flooding, landslide, tsunami, wildland fire

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-3	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	Office of Emergency Services	In progress. The formal schedule for the 2019 MJHMP was impacted during the life of the plan by Covid, by other disasters and by vacancies in the OES and other relevant departments. While we were on track to reconvene to update the 2019 plan, delays occurred due to the necessity of applying for funding and due to continued low staffing and disasters.	Yes	Plan maintenance protocols will continue to be followed as described in the 2025 update to the best of our ability.	Dam failure, drought, earthquake, flooding, landslide, severe weather, tsunami, wildland fire
DNC-4	Continue to maintain good standing and compliance under the NFIP through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements. Including enforcement of the flood damage prevention ordinance; Participation in floodplain identification and mapping updates; and providing public assistance/information on floodplain requirements and impacts.	Community Development Department	In Progress. The County remains in good standing and compliance under the NFIP.	Yes	The County will remain in good standing and in compliance with the NFIP.	Dam failure, flooding, severe weather, tsunami, sea level rise

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-5	Identify and pursue strategies to increase adaptive capacity to climate change.	Community Development Department	In Progress. The County was a participant in the South Beach Climate Resilience Plan, which was prepared on behalf of the Del Norte Local Transportation Commission, Elk Valley Rancheria and Crescent City Harbor District to address impacts on US Highway. It was funded through a Caltrans Climate Adaptation Planning Grant. The County is the recipient of a Caltrans Sustainable Transportation Planning Grant to analyze and prioritize drainage infrastructure associated with the County maintained road system. Data will be collected and a countywide geographic information system (GIS) documenting existing drainage infrastructure features associated with the County maintained road system will be developed, existing conditions will be evaluated relative to anticipated impacts from climate change through a hydrology and hydraulics analysis, and a capital improvement plan (CIP) for drainage infrastructure associated with the County maintained road system will be developed. Improvements included in the CIP may be designed up to 30% to inform future climate adaptation project development efforts and the Regional Transportation Plan.	Yes	Original Problem- need to increase adaptive capacity to climate change.	Sea level rise, wildland fires, severe weather

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-6	Purchase generators for critical facilities and infrastructure that lack adequate back-up power (e.g. sewer lift stations, etc.).	Community Development Department	In Progress. The County obtained a State Proposition 1 Grant that is to be used to add fixed generators to several sanitary sewer lift stations. The project is currently under construction. Also, in 2020 the County received OES EMPG funding and Public Safety Power Shutoff Resiliency Grant funding to purchase a portable generator for the County Service Area No. 1. OES funded the purchase of generators for the Crescent City Police Department (CCPD), installed in 2021, and for the Flynn (County) Administration Building, installed in 2023 using PSPS funds. OES has developed a generator project for the Del Norte County Sheriff's Office, Dispatch, and Jail facility using EMPG 23 funds and expect this project to be completed in 2025.	Yes.	Continue to pursue generator purchase and installation for critical facilities and infrastructure and investigate alternative power options.	Dam failure, earthquake, flooding, landslide, severe weather, tsunami, wildland fire
DNC-7	Continue/enhance ongoing public education programs to include components on hazards and mitigations	Office of Emergency Services	Ongoing Capability/In Progress. Public Education campaigns have included in-person, social media, and website outreach, as well as a regular Preparedness Radio program. Hazard and Mitigation topics have been covered through these outreach efforts, including outreach for wildfire, flood, tsunami, Winter Storms, Landslides, and other hazards. Additionally OES has provided support to Gasquet neighbors Helping Neighbors, this volunteer OES group is working on Mitigation efforts in Gasquet.	Yes	Original need was for public campaign to increase awareness of hazards of hazard mitigation	dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, and wildland fire

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-8	Update sponsored website to include preparedness, warning and mitigation information on all hazards	Office of Emergency Services	Ongoing Capability. The website currently contains relevant and recent information, including preparedness, warning, and mitigation information.	No		Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-9	Provide updated narrowband radios and repeaters for all hazard first responders	Office of Emergency Services	In Progress. DNSO has purchased radios using funds from a local public safety measure. Additional radio and repeater projects were identified as needs by Interoperable Communications Assessment completed in 2023. HSGP and EMPG Grants and Measure R funds have been used to purchase radios for Del Norte County Sheriff, Crescent City PD, and Gasquet Fire; pagers for Crescent City Fire and Rescue; and a repeater for Smith River Fire.	Yes	The original problem was with interoperability between public safety and related agencies that prevented adequate communications during emergencies/disasters. Communications projects were identified and prioritized by 2023 Interoperable Communications Assessment. OES will continue to pursue projects identified in the assessment as grant funds become available. **Consider as a new project to have new repeaters at new sites to improve radio communications. (red Mountain replacement)	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-10	Conduct a structural/non-structural hazard mitigation engineering feasibility study of critical facilities/infrastructure identified as vulnerable to identify preferred alternatives for future grant funding opportunities. This would be considered a "phased-approach" as defined by FEMA under the 2015 HMA guidance	Administration	In Progress. The County Building Maintenance Director has inspected all County facilities in consultation with the County Building Official and has prepared a preliminary report on the findings of their condition. While the focus of this analysis was not on hazard exposure or mitigation, the County may be able to use this information to inform further analysis by the County's contracted engineering consultants. Work has not been completed on this item for several reasons including technical capacity, which is now improved by the previously referenced service agreements with engineering consultants (which were put into place in 2023), and more broadly by the pandemic that occurred during this period. Cal OES performed a Seismic Inventory (Rapid Visual Screening) of critical facilities in the County in 2023 that may help to inform future projects and justify grant applications.	Yes	This project may be combined with DNC-1 and DNC-25 as one assessment and identification project for County-owned facilities.	Dam failure, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-11	Conduct a cost/benefit analysis and feasibility study for the relocation or retro-fitting of the County jail facility	Administration	In progress. An assessment of the County Jail facility was conducted by the BSCC to be able to renovate the jail. The County is moving forward with a phased project for renovation of the existing jail to complete improvements and bring the facility into compliance with Title 24.	No		Earthquake, tsunami

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-12	Draft and adopt a post disaster action plan	Office of Emergency Services	No Progress. Covid, personnel shortages, and ongoing emergencies/disasters prevented the pursuit of this strategy. Estimate in 2020 was minimum of $80,000 to hire a consultant.	Yes	OES will pursue the creation of a Recovery Plan as funding sources become available.	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-13	Develop, map, and communicate an evacuation route for all applicable hazards	Office of Emergency Services	In Progress. Evacuation zones have been completed in evacuation mapping program, funded through a combination of EMPG and HSGP funds. Once released, residents will be encouraged to know their zones for evacuation notifications. Evacuation routes are established for hazards with known paths that routes can be communicated for.	Yes	This project intended to communicate evacuation routes. While the project should be carried into the updated plan, the verbiage should be changed to specify evacuation zones rather than routes, and to include public outreach and education about the zones to ensure safe and speedy evacuations.	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-14	Engineer/design or retrofit new and existing roads and bridges to withstand the impacts from the hazards for which they are exposed.	Community Development Department	In Progress. The County has multiple ongoing projects that are going through the design and permitting process. Examples include the replacement of the Hunter Creek Bridge on Requa Rd., the replacement of culverts on Klamath Beach Rd., and bluff stabilization along Pebble Beach Dr. The County did a major culvert replacement on Oregon Mountain Rd. following the Slater Fire in 2020 which will ensure that the culverts be resilient in the event of future wildfire. In 2024, the County received a grant from Caltrans Bridge Preventative Maintenance Program to establish a bridge preventative maintenance program. A consultant was hired and is currently evaluating all of the County's bridges to identify deficiencies and prepare work recommendations.	Yes.	Some existing roads/bridges were vulnerable to floods, landslides, wind, tsunami, and other hazards.	Dam failure, earthquake, flooding, landslide, sea level rise, severe weather, tsunami

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-15	Develop a tsunami warning and response system	Office of Emergency Services	In Progress. While we have a Community Alert system, IPAWs alerting capability, tsunami sirens, and tsunami hazard signage, many of the sirens are in need of repair/replacement, and signage needs to be replaced to reflect updated tsunami maps. OES works closely with the NWS, California Geological Survey, Cal OES Earthquake and Tsunami Program, and Redwood Coast Tsunami Work Group to continuously improve tsunami warning and response capabilities. OES has recently mapped all tsunami hazard zones in an evacuation mapping program to improve evacuation time and efficiency.	Yes	There have been over 40 tsunamis in Del Norte County since recordkeeping began in the 1930s, including several that caused significant damage, and one that destroyed 30 square blocks of Crescent City and killed 11 residents. The original problem was the need for improved local warning systems for tsunamis. While systems have improved since the development of the 2019 plan, OES will continue to work on improvements in tsunami warning and response, including through siren repair/replacement, tsunami signage updates, investigation of building a vertical evacuation tower, and continued collaboration and consultation with subject matter experts. Fire sirens are also needed. This is several smaller projects that will require different funding sources. We may want to separate this into the separate projects or define more precisely the various aspects of what is needed.	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-16	Develop a Disaster Debris Management Plan that Identifies and develops adequate locations for the temporary and permanent storage of post-disaster event debris. Establish agreements with property owners and haulers ahead of disaster.	Office of Emergency Services	Complete.	No	Disaster Debris Management Plan was completed in 2021.	Dam failure, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-17	Design, post to the web and publicize the availability of a web GIS mapping tool providing detailed maps of natural hazard overlays or site address and/or parcel locations	Office of Emergency Services	Complete.	No.	County website includes GIS maps including parcels and flood and tsunami hazard overlays. The State also maintains a hazard map for all relevant hazards for our purposes, and through work completed in our evacuation mapping program, we now have the capabilities desired by the inclusion of this project.	Dam Failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-18	Secure funding for additional GIS all hazards staffing capacity to provide interagency coordination and consolidated, integrated GIS capabilities including all county departments and other applicable agencies.	Office of Emergency Services	No Progress. OES has not pursued this project due to time and staff limitations and due to the project becoming less of a priority as new tools and technologies have become available that fulfill the needs.	No		Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-19	Extend runway lengths, draft a pavement maintenance plan, and rehabilitate pavement to be able to receive larger aircrafts.	Border Coast Regional Airport Authority	PMMP – Completed Pavement Rehabilitation – Ongoing (FAA, $7.2M) Runway Extension – No Progress Pavement rehabilitation is ongoing, pending FAA grant funding and timing.	N/A Yes Yes	N/A Design Delay Lack of Funding (Local/FAA)	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-20	Relocate/digitize County records and maintain backups that can be accessed during or soon following disaster events.	Information Technology Department	In Progress. IT Department is working on digitization of County records.	Yes	The original problem was the possibility of a permanent loss of records in a disaster.	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-21	Establish alternate Office of Emergency Services operation center and emergency dispatch center.	Office of Emergency Services	In Progress. OES continues to explore facilities and properties as well as possible funding sources for primary and secondary EOC and emergency dispatch centers.	Yes	This project was created due to the need for backup EOC and dispatch locations. Rather than alternative EOC and dispatch, OES now sees new primary site/s for OES offices, EOC and training facility, and dispatch center as priorities. Project 1 also relates to critical facilities. Relocation of dispatch may also be covered by that project.	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-22	Upgrade/develop redundant interoperable communications systems such as fiber optic wireless, radio and other.	Office of Emergency Services	In progress. Radio and other relevant communications equipment continue to be purchased as grant funding allows. Interoperable communications assessment completed in 2023 identified top priority projects OES will continue to pursue.	Yes	OES will continue to pursue priority communications project identified by 2023 Interoperable Communications Assessment. Review to consolidate this project with DNC-9	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-23	Procure equipment necessary to evaluate, repair, and maintain segments of the sewage collection system which are highly vulnerable to damage during disaster events.	Community Development Department	No Progress. In 2023, the County requested technical assistance from the State Water Resources Control Board for the preparation of a grant application for the Small Community Funding Program to fund a comprehensive CCTV inspection of the County's collection system and sanitary sewer lift stations. The request is on hold.	Yes	The original problem is not having the data to identify damage to the sewer collection system and not having the equipment necessary to make immediate repairs or to minimize potential sewer sanitary overflows (SSOs) following a failure.	Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-24	Develop County Service Area No. 1 Capital Improvement Program with the intent of prioritizing repair/replacement projects based on risk to hazards.	Community Development Department	In progress. A preliminary plan has been developed by County staff based on known information about the County Services Area No. 1. The County has partnered with the Elk Valley Rancheria for a grant from the Indian Health Services for a focused inflow and infiltration study for the portions of the sewer collection system located within and near the Elk Valley Rancheria.	Yes.	Repair/replacement of CSA-owned equipment was identified as a need.	Dam failure, drought, earthquake, tsunami, flooding, landslide, sea level rise, severe weather, and wildland fire
DNC-25	Identify and evaluate potential permanent relocation sites for critical county facilities located in areas subject to hazards.	Office of Emergency Services	No Progress. OES has not had the time or staffing to pursue this project. If we decide to include this project in the 2025 plan it should be listed under a different responsible party.	Unsure	This is also related to DNC-1 and DNC-10. Will need to ensure that projects are either well defined, combined, or otherwise reviewed to prevent confusion and duplication	dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-26	Procure equipment necessary to maintain the County's flood control system and to remove obstacles from emergency access routes during disaster events.	Community Development Department	Completed. The Roads Division has recently purchased equipment capable of assisting during disaster events.	No.		Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-27	Replace or expand Bar O Boys Ranch barracks to accommodate fire crews.	Administration, Probation Department	This property is no longer in use.	No		Dam failure, drought, earthquake, flooding, landslide, sea level rise, severe weather, tsunami, wildland fire
DNC-28	Maintain airport runway safety areas to keep clear of wildfire fuels and to continue use as base for firefighting operations when needed.	Border Coast Regional Airport Authority	Ongoing Capability	No		Wildland Fire

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
DNC-29	Procure equipment necessary for operations at Jack McNamara Field to respond to disaster events on-site and as a critical ingress/egress point for the County.	Border Coast Regional Airport Authority	Ongoing Capability – New Aircraft Rescue & Fire Fighting Apparatus nearing completion and delivery Q4 2024.	No		Dam failure, drought, earthquake, flooding, landslide, severe weather, tsunami, wildland fire

2.9.2 Additional Mitigation Efforts

In addition to the mitigation actions completed in Table 2-15, Del Norte County identified the following mitigation efforts completed since the last HMP:

- Covid mitigation activities: Pre-positioned ACS, handwashing stations, work-from-home policies
- Designed and published evacuation zone maps to aid evacuations
- Partnered with community organizations and other County departments to conduct outreach to homeless community members to educate about flood and tsunami hazard areas and to promote registration for community alerts
- Worked with National Weather Service and partners on annual Live Code tsunami drills and community evacuation drills
- Held large evacuation exercise for the City of Crescent City, helping the City to achieve Tsunami Ready status
- Promoted power company programs for free or reduced cost generators for community members with electricity-dependent medical equipment
- Installed generator at County Administration building
- Promoted Community Alert System registration and attained access to IPAWS for alerting
- Supported wildfire mitigation efforts in rural areas (brush removal, bins, and chipping activities) and supported voluntary teams conducting mitigation work
- Implemented inclement weather shelters for homeless community members
- Provided CERT basic training to rebuild local volunteer team
- Provided sandbag distribution sites ahead of flood events
- Held Flood Fight training to train County staff on Flood Fight Operations
- Secured pre-positioned flood fight resource caches
- Secured generator for County Roads Division
- Secured pre-positioned shelter supply trailer through MOU with CA Dept of Social Services
- Secured State grant for purchase of generator for Police Department

DRAFT

- Provided support and training to voluntary response teams: Community Emergency Response Team (CERT), Neighbors Helping Neighbors (NHN), Disaster Animal Response Team (DART)
- Conducted outreach to seniors, Regional Center clients, and school children promoting preparedness information
- Purchased deployable portable generators
- Secured High Frequency Communications equipment to improve communications
- Conducted Interoperable Communications Assessment to assess communications capability

2.9.3 Changes in Priorities

Since the 2019 HMP update, the County has experienced a couple of large wildfires, including the Slater Fire in 2020, and the Smith River Complex fires and associated long-term power outage in 2023. This has created a renewed focus on wildfire mitigation, first responder communications capabilities, alert and warning capabilities, power resiliency, hardening critical infrastructure, and evacuation planning. These priorities are reflected in the projects included in our 2025 HMP update.

2.9.4 Proposed Hazard Mitigation Actions for the HMP Update

Del Norte County participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 “Selecting Appropriate Mitigation Measures for Flood Prone Structures” (March 2007)
- FEMA “Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards” (January 2013)

The action worksheets included at the end of this annex list the mitigation actions that Del Norte County would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in county priorities.

Table 2-16 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 2-17 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

DRAFT

Table 2-16. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Drought	DNC-1, DNC-2, DNC-7, DNC-14	DNC-4, DNC-29		DNC-5, DNC-19, DNC-22
Earthquake	DNC-1, DNC-2, DNC-7, DNC-11, DNC-14, DNC-20	DNC-4, DNC-6, DNC-9, DNC-10, DNC-12, DNC-13, DNC-15, DNC-17, DNC-18, DNC-20, DNC-21, DNC-23, DNC-26, DNC-27, DNC-29	DNC-20	DNC-5, DNC-19, DNC-28
Extreme Heat	DNC-1, DNC-2, DNC-7, DNC-14	DNC-4, DNC-12, DNC-18, DNC-23, DNC-26, DNC-29		DNC-5, DNC-19, DNC-22
Excessive Rain	DNC-1, DNC-2, DNC-7, DNC-11, DNC-14, DNC-20	DNC-3, DNC-4, DNC-6, DNC-9, DNC-10, DNC-12, DNC-13, DNC-15, DNC-18, DNC-20, DNC-23, DNC-26, DNC-27, DNC-29	DNC-20	DNC-5, DNC-19, DNC-22
Extreme Wind	DNC-1, DNC-2, DNC-7, DNC-11, DNC-14, DNC-20	DNC-4, DNC-6, DNC-9, DNC-10, DNC-18, DNC-20, DNC-21, DNC-23, DNC-26, DNC-27, DNC-29	DNC-20	DNC-5, DNC-19, DNC-22
Flood	DNC-1, DNC-2, DNC-7, DNC-8, DNC-11, DNC-14, DNC-20	DNC-3, DNC-4, DNC-6, DNC-9, DNC-10, DNC-12, DNC-13, DNC-15, DNC-18, DNC-20, DNC-21, DNC-23, DNC-26, DNC-27, DNC-29	DNC-20	DNC-5, DNC-19, DNC-22, DNC-28
Landslide	DNC-1, DNC-2, DNC-7, DNC-8, DNC-11, DNC-14, DNC-20	DNC-4, DNC-6, DNC-9, DNC-10, DNC-12, DNC-13, DNC-15, DNC-18, DNC-20, DNC-21, DNC-23, DNC-26, DNC-27, DNC-29	DNC-20	DNC-5, DNC-19, DNC-22, DNC-28
Tsunami	DNC-1, DNC-2, DNC-7, DNC-8, DNC-11, DNC-14, DNC-20	DNC-4, DNC-9, DNC-10, DNC-12, DNC-13, DNC-15, DNC-18, DNC-20, DNC-21, DNC-23, DNC-25, DNC-26, DNC-27, DNC-29	DNC-20	DNC-5, DNC-16, DNC-19, DNC-24, DNC-28
Wildfire	DNC-1, DNC-2, DNC-7, DNC-8, DNC-11, DNC-20	DNC-4, DNC-9, DNC-10, DNC-12, DNC-13, DNC-18, DNC-20, DNC-21, DNC-23, DNC-26, DNC-27, DNC-29	DNC-20	DNC-5, DNC-19, DNC-22, DNC-24, DNC-28

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.

Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.

Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

DRAFT

Table 2-17. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Seismic Mitigation	Low	High	1	1-5 years	8.2	High
Evacuation Zone Awareness	Low	High	1	1-5 years	8.2	High
Public Education	Low	Medium	1	1-5 years	7.2	High
Tsunami Hazard Awareness	Medium	High	1	1-5 years	7.2	High
Debris Removal Contract	Low	Medium	1	1-5 years	7.2	High
Cybersecurity Improvements	Medium	High	1	1-5 years	7.2	High
Plan Integration	Low	Low	1	1-5 years	6.2	Medium
Plan Maintenance	Low	Low	1	1-5 years	6.2	Medium
NFIP Compliance	Low	Low	1	1-5 years	6.2	Medium
Evacuation Mapping	Medium	Medium	1	1-5 years	6.2	Medium
Accessible Communications	Medium	Medium	1	1-5 years	6.2	Medium
Radio Communications	Low	Low	1	1-5 years	6.2	Medium
Climate Change Effects	Low	Low	1	1-5 years	6.2	Medium
Emergency Warning Sirens	High	High	1	1-5 years	6.2	Medium
Generators	High	High	1	1-10 years	5.2	Medium
Radio Technology	High	High	1	1-10 years	5.2	Medium
Disaster Recovery Plan	Medium	Low	1	1-5 years	5.2	Medium
Roads and Bridges	High	High	1	1-10 years	5.2	Medium
Digitize County Records	High	High	1	1-10 years	5.2	Medium
Procure Equipment	High	High	1	1-10 years	5.2	Medium
County Service Area No. 1	High	High	1	1-10 years	5.2	Medium
Maintain Levee System	High	High	1	1-10 years	5.2	Medium
EOC and EDC Study	High	Medium	1	1-5 years	5.2	Medium
Vertical Tsunami Evacuation Structure	High	High	1	1-10 years	5.2	Medium
Survey Monument Preservation	High	High	1	1-10 years	5.2	Medium
Jack McNamara Field	High	Medium	1	1-10 years	4.2	Low
Expand Internet Access	High	Medium	1	1-10 years	4.2	Low
Veteran's Administration	High	Low	1	1-5 years	4.2	Low
Microgrid Study	High	Medium	1	1-10 years	4.2	Low

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

2.9.5 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

DNC-1 Plan Integration

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:	Office of Emergency Services (OES)	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need for updated HMP to be integrated into General Plan Safety Element to inform land use decisions and maintain eligibility for certain grants.	
Description of the Solution:	Integrate the Hazard Mitigation Plan into other plans, ordinances, and programs that dictate land use decisions in the community, including the General Plan, the Local Coastal Program, and the County Code. (2019 DNC-2)	
Estimated Cost:	Low	
Potential Funding Sources:	Local funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its residents.	
Benefits:	Low: Long-term benefits of the project are difficult to quantify in the short-term.	
Impact on Socially Vulnerable Populations:	Unknown	
Impact on Future Development:	Unknown	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security Lifeline	
Impact on Capabilities:	Positive impact on Community Resilience, Long-term Vulnerability Reduction and Infrastructure Systems capabilities	
Climate Change Considerations:	Unknown	
Mitigation Category	☒Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-2 Plan Maintenance

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	N/A	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Maintenance protocols need to be followed to ensure HMP projects are prioritized and that changes impacting hazard vulnerability in the jurisdiction are updated	
Description of the Solution:	Actively participate in the plan maintenance protocols outlined in Volume 1 of this Hazard Mitigation Plan (2019 DNC-3)	
Estimated Cost:	Low	
Potential Funding Sources:	EMPG (Staff Time)	
Implementation Timeline:	1-5 years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its constituents.	
Benefits:	Low: Long-term benefits of the project are difficult to quantify in the short-term	
Impact on Socially Vulnerable Populations:	Unknown	
Impact on Future Development:	Plan maintenance will inform local development decisions	
Impact on Critical Facilities/Lifelines:	Positive impact on Critical Facilities, all Community Lifelines	
Impact on Capabilities:	Positive impact on Planning, Community Resilience, Long-term Vulnerability Reduction and Infrastructure Systems capabilities	
Climate Change Considerations:	Plan maintenance ensures climate change impacts are taken into account in project prioritization	
Mitigation Category	☒Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-3 NFIP Compliance

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☒Excessive Rain ☐Extreme Wind	☒Flood ☐Landslide ☐Tsunami ☐Wildfire
Description of the Problem:	Need to remain in compliance with NFIP requirements to ensure continued eligibility and reduce flood risk	
Description of the Solution:	Continue to maintain good standing and compliance under the NFIP through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements, including enforcement of the flood damage prevention ordinance; Participation in floodplain identification and mapping updates; and providing public assistance/information on floodplain requirements and impacts. (2019 DNC-4)	
Estimated Cost:	Low	
Potential Funding Sources:	Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its constituents	
Benefits:	Low: Long-term benefits are difficult to quantify in the short term	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	Positive: Participation informs future development decisions	
Impact on Critical Facilities/Lifelines:	All Community Lifeline Categories	
Impact on Capabilities:	Positive impact on Planning, Community Resilience, Long-term Vulnerability Reduction and Infrastructure Systems capabilities	
Climate Change Considerations:	Consistent with NFIP policies	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-4 Generators

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Building Maintenance Department, Community Development Department	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need to power critical facilities during extended power outages.	
Description of the Solution:	Purchase generators for critical facilities and infrastructure that lack adequate back-up power (sewer lift stations, pre-identified shelter locations, Sheriff's Office/Dispatch, etc.) (2019 DNC-6)	
Estimated Cost:	High	
Potential Funding Sources:	HSGP, HMGP, PDM	
Implementation Timeline:	5+ years	
Objectives Met:	Protect community lifelines and critical infrastructure to the 100-year or worst-case scenarios to safeguard continuity of operations in Del Norte County.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property. Substantial public health and safety benefits achieved by avoiding sanitary sewer overflows (SSOs)	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security; Food, Hydration and Shelter; Transportation; Health and Medical; Communications; and Energy Lifelines	
Impact on Capabilities:	Positive impact on Public Health, Healthcare, and EMS capability; Mass Care Services; Infrastructure Systems; and Long-term Vulnerability Reduction	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires, increasing the potential for power outages	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-5 Public Education

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	N/A	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need to increase community member participation in mitigation activities.	
Description of the Solution:	Enhance public education to include personal and business mitigation actions and activities (participation in Firewise, etc.) (amended 2019 DNC-7)	
Estimated Cost:	Low	
Potential Funding Sources:	EMPG, Measure R (Staff time)	
Implementation Timeline:	1-5 years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its constituents	
Benefits:	Medium: Project will have a long-term impact on the reduction of risk exposure to life and/or property or will provide an immediate reduction in the risk exposure to property.	
Impact on Socially Vulnerable Populations:	Positive impact for whole community, including socially vulnerable populations	
Impact on Future Development:	High	

DRAFT

DNC-6 Radio Technology

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Information Technology Department (IT)	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☐Tsunami ☐Wildfire
Description of the Problem:	First responder radio communication issues are persistent in our area. Plans for relocation of radio communications tower threatens to cause additional issues. Interoperable Communications Assessment (2023) identified necessary communication projects the jurisdiction should address to ensure adequate first responder communications.	
Description of the Solution:	Improve radio technology across the region to ensure adequate first responder and partner communications. Pursue funding to support priority communications projects identified in 2023 Interoperable Communications Assessment. (Amended 2019 DNC-9)	
Estimated Cost:	High	
Potential Funding Sources:	HMGP, EMPG, HSGP, CDBG	
Implementation Timeline:	5+ years	
Objectives Met:	Protect community lifelines and critical infrastructure to the 100-year or worst-case scenarios to safeguard continuity of operations in Del Norte County.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Communications and Safety and Security Lifelines	
Impact on Capabilities:	Positive impact on Operational Coordination, Operational Communications	
Climate Change Considerations:	Unknown	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-7 Disaster Recovery Plan

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	N/A	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	The County currently lacks a disaster recovery plan to guide actions and decision making and inform about available resources in the aftermath of disaster.	
Description of the Solution:	Draft and adopt a Disaster Recovery Plan (amended 2019 DNC-12)	
Estimated Cost:	Medium	
Potential Funding Sources:	HMGP, EMPG	
Implementation Timeline:	1-5 years	
Objectives Met:	Expand awareness of available resources for residents and business owners, focusing on accessibility for individuals in socially vulnerable situations.	
Benefits:	Low: Long-term benefits of the project are difficult to quantify in the short-term	
Impact on Socially Vulnerable Populations:	Positive impact: improves recovery outcomes for whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Potential positive impact on Critical Facilities and Lifelines due to increased awareness of recovery resources and processes and improved recovery outcomes	
Impact on Capabilities:	Positive impact on Economic Recovery; Housing; Natural and Cultural Resources: and Health and Social Services	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires, creating a greater need for post-disaster recovery plans.	
Mitigation Category	☒Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-8 Evacuation Mapping

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:	Office of Emergency Services (OES)	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	The County currently lacks evacuation route maps.	
Description of the Solution:	Evacuation Mapping: Map major evacuation routes and identify residential areas with fewer than 2 evacuation routes. Incorporate maps into General Plan Safety Element. (amended 2019 DNC-13)	
Estimated Cost:	Medium	
Potential Funding Sources:	HMGP, EMPG, Adaptation Planning Grant Program (CA)	
Implementation Timeline:	1-5 years	
Objectives Met:	Expand awareness of available resources for residents and business owners, focusing on accessibility for individuals in socially vulnerable situations.	
Benefits:	Medium: Project will have a long-term impact on the reduction of risk exposure to life and/or property or will provide an immediate reduction in the risk exposure to property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	Awareness of evacuation routes informs future development	
Impact on Critical Facilities/Lifelines:	Positive impact on Transportation, Safety and Security Lifelines	
Impact on Capabilities:	Positive impact on Risk and Disaster Resilience Assessment capability	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires. Mapping of evacuation routes improves awareness of vulnerabilities to inform evacuation plans for these events.	
Mitigation Category	☒Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-9 Roads and Bridges

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	The majority of existing County maintained roads are not designed to current design standards.	
Description of the Solution:	Rehabilitate, reconstruct, replace and retrofit existing County maintained roads and bridges to withstand the impacts of hazards. (Amended 2019 DNC-14)	
Estimated Cost:	High	
Potential Funding Sources:	HMGP, PDM	
Implementation Timeline:	5+ years	
Objectives Met:	Increase capacity, redundancy, and/or resilience of local infrastructure and utilities to reduce potential for community isolation after a hazard event	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	Positive impact on resilience of new roads and bridges	
Impact on Critical Facilities/Lifelines:	Positive impacts on Transportation; Safety and Security; Health and Medical; Communications; and Food, Hydration and Shelter Lifelines	
Impact on Capabilities:	Positive impact on Long-term Vulnerability Reduction	
Climate Change Considerations:	Climate change impacts can affect the lifespan of roads and bridges and the prioritization of this project.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-10 Jack McNamara Field

Lead Agency:	Border Coast Airport Authority	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Longer runway lengths and runway maintenance are needed to accommodate larger aircraft for emergency response and recovery activities. (amended 2019 DNC-19)	
Description of the Solution:	Extend runway lengths and rehabilitate pavement at Jack McNamara Field to be able to receive larger aircraft	
Estimated Cost:	High	
Potential Funding Sources:	HMGP, FAA grants (AIG, AIP)	
Implementation Timeline:	5+ years	
Objectives Met:	Increase capacity, redundancy, and/or resilience of local infrastructure and utilities to reduce potential for community isolation after a hazard event.	
Benefits:	Medium: Project will have a long-term impact on the reduction of risk exposure to life and/or property or will provide an immediate reduction in the risk exposure to property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations.	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security; Transportation; and Health and Medical Lifelines	
Impact on Capabilities:	Positive impact on Long-term Vulnerability Reduction, Supply Chain Integrity and Security, and Critical Transportation capabilities	
Climate Change Considerations:	Unknown	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Low	

DRAFT

DNC-11 Digitize County Records

Lead Agency:	Information Technology Department (IT)	
Supporting Agencies:	All County Departments	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need to digitize County records and maintain backups to ensure records are not permanently lost in disaster events. (2019 DNC-20)	
Description of the Solution:	Relocate/digitize County records and maintain backups that can be accessed during or soon after disaster events.	
Estimated Cost:	High	
Potential Funding Sources:	Local Funds (staff time)	
Implementation Timeline:	5+ years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its constituents	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	Positive impact on future development through improved disaster recovery	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security; Food, Hydration and Shelter; Health and Medical; Energy; Communications; Transportation; and Hazardous Materials Lifelines	
Impact on Capabilities:	Positive impact on Long-Term Vulnerability Reduction	
Climate Change Considerations:	Unknown	
Mitigation Category	☒Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-12 Expand Internet Access

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Information Technology Department (IT)	
Hazards of Concern:	☐Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need to enhance communication systems to improve access to information for community members, including critical information during emergencies/disasters.	
Description of the Solution:	Expand high-speed internet access to rural community members to improve information access, including emergency information. (amended 2019 DNC-22)	
Estimated Cost:	High	
Potential Funding Sources:	USDA Rural Development Telecom Grant Programs, HMGP	
Implementation Timeline:	5+ years	
Objectives Met:	Expand awareness of available resources for residents and business owners, focusing on accessibility for individuals in socially vulnerable situations.	
Benefits:	Medium: Project will have a long-term impact on the reduction of risk exposure to life and/or property or will provide an immediate reduction in the risk exposure to property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Communications; Health and Medical; and Safety and Security Lifelines	
Impact on Capabilities:	Positive impact on Public Information and Warning and Community Resilience capabilities	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires. It is important for rural community members to have access to emergency information as incidents increase.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Low	

DRAFT

DNC-13 Procure Equipment

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Equipment is needed to conduct necessary evaluation, maintenance, and repairs on sewage system to improve reliability of system, especially after disaster.	
Description of the Solution:	Procure equipment necessary to evaluate, repair, and maintain segments of the sewage collection system which are highly vulnerable to damage during disaster events. (2019 DNC-23)	
Estimated Cost:	High	
Potential Funding Sources:	HMGP, USDA Rural Development	
Implementation Timeline:	5+ years	
Objectives Met:	Protect community lifelines and critical infrastructure to the 500-year or worst-case scenarios to safeguard continuity of operations in Del Norte County.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Project will benefit whole community, including socially vulnerable populations.	
Impact on Future Development:	Positive impact on future development	
Impact on Critical Facilities/Lifelines:	Positive impact on Health and Medical; Water Systems Lifelines	
Impact on Capabilities:	Positive impact on Infrastructure Systems, Long-term Vulnerability Reduction capabilities	
Climate Change Considerations:	Climate change can increase the number and intensity of storms, putting additional pressure on sewer system	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☒Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-14 County Service Area No. 1

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:	N/A	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need for sanitary sewer projects to be prioritized according to risk to local hazards to ensure the most critical projects are prioritized.	
Description of the Solution:	Develop County Service Area No. 1 Capital Improvement Plan with the intent of prioritizing repair/replacement projects based on risk to hazards. (2019 DNC-24)	
Estimated Cost:	High	
Potential Funding Sources:	HMGP, CWSRE	
Implementation Timeline:	5+ years	
Objectives Met:	Protect community lifelines and critical infrastructure to the 500-year or worst-case scenarios to safeguard continuity of operations in Del Norte County.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Project will have a positive impact on the whole community, including socially vulnerable populations.	
Impact on Future Development:	Positive impact: preserves future development potential	
Impact on Critical Facilities/Lifelines:	Positive impacts on Safety and Security; Food, Hydration and Shelter; Health and Medical; Energy; Communications; Transportation; and Hazardous Materials Lifelines	
Impact on Capabilities:	Positive impact on Infrastructure Systems, Critical Transportation, and Long-term Vulnerability Reduction	
Climate Change Considerations:	Climate change can increase the number and intensity of storms, putting additional pressure on the sewer system	
Mitigation Category	☒Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-15 Maintain Levee System

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☐Wildfire
Description of the Problem:	Need for maintenance crews to maintain access and functionality of the Klamath Glen levee for disaster response and post-disaster repairs.	
Description of the Solution:	Maintain the levee system including access at acceptable levels to retain a fully functional flood control system for emergency response. This includes maintenance of levee access roads, vegetation, levee proper, ponding areas, inlets, outlets, pumps, generators, fuel, etc. (amended DNC-26)	
Estimated Cost:	High	
Potential Funding Sources:	HMGP, PDM, FMA	
Implementation Timeline:	5+ years	
Objectives Met:	Protect community lifelines and critical infrastructure to the 500-year or worst-case scenarios to safeguard continuity of operations in Del Norte County.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Project will have a positive impact for whole community. Much of the population protected by the levee is a socially vulnerable population.	
Impact on Future Development:	Positive impact on future development potential	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security; Food, Hydration and Shelter; Health and Medical; Energy; Communications; Transportation; and Hazardous Materials Lifelines	
Impact on Capabilities:	Positive impact on Infrastructure Systems, Long-term Vulnerability Reduction	
Climate Change Considerations:	Climate change impacts can cause additional pressure on levee system	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-16 Tsunami Hazard Awareness

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Community Development Department (CDD): Roads Division, Caltrans	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☐Landslide ☒Tsunami ☐Wildfire
Description of the Problem:	Need for improved public information about local tsunami hazards. Needed improvements include: • Updated tsunami road/highway signage to align with updated tsunami hazard maps. • Tsunami route and evacuation point mapping and signage. These actions will improve public awareness and produce more effective tsunami evacuations and will qualify the County for NWS Tsunami Ready designation.	
Description of the Solution:	Increase tsunami hazard awareness by completing steps to achieve County-wide NWS Tsunami Ready status, including the installation/replacement of tsunami signs on County roads and highway.	
Estimated Cost:	Medium	
Potential Funding Sources:	EMPG (staff time), NEHRP, Measure R, Caltrans funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Expand awareness of available resources for residents and business owners, focusing on accessibility for individuals in socially vulnerable situations.	
Benefits:	High: Increased awareness of tsunami hazard zones and evacuation routes will have an immediate impact on the reduction of risk exposure to life and property.	
Impact on Socially Vulnerable Populations:	Increased awareness will improve outcomes for the whole community, including socially vulnerable populations.	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security and Transportation Lifelines	
Impact on Capabilities:	Positive impact on Public Information and Warning; Risk and Disaster Resilience Assessment; Community Resilience; and Critical Transportation capabilities	
Climate Change Considerations:	Unknown	
Mitigation Category	☐Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	High	

DRAFT

DNC-17 Seismic Mitigation

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Building Maintenance Department	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☐Landslide ☐Tsunami ☐Wildfire
Description of the Problem:	Need to increase safety of staff and occupants of County facilities during earthquakes.	
Description of the Solution:	Apply non-structural mitigation actions to County facilities (earthquake straps, etc.)	
Estimated Cost:	Low	
Potential Funding Sources:	EMPG, Local Funds, Measure R	
Implementation Timeline:	1-5 years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its constituents	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and property	
Impact on Socially Vulnerable Populations:	Project will benefit all occupants of County facilities, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security Lifeline	
Impact on Capabilities:	Positive impact on Environmental Response/Health and Safety and Infrastructure Systems capabilities	
Climate Change Considerations:	None	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	High	

DRAFT

DNC-18 Veteran's Administration

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Building Maintenance Department	
Hazards of Concern:	☐Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need for safe and suitable (ADA-compliant, earthquake retrofit) shelter facilities for emergency/disaster sheltering	
Description of the Solution:	Conduct feasibility studies for renovations of Veteran's Administration building and Recreation Hall for the purposes of sheltering, including earthquake retrofitting and ADA compliance	
Estimated Cost:	High	
Potential Funding Sources:	Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Increase capacity, redundancy, and/or resilience of local infrastructure and utilities to reduce potential for community isolation after a hazard event	
Benefits:	Low: Long-term benefits of the project are difficult to quantify in the short term.	
Impact on Socially Vulnerable Populations:	Additional accessible sheltering facilities will positively impact the whole community, especially socially vulnerable populations.	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Food, Hydration and Shelter lifeline	
Impact on Capabilities:	Positive impact on Mass Care Services and Infrastructure Systems	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires. Increased emergencies and disasters will lead to increased need for suitable shelter facilities.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Low	

DRAFT

DNC-19 Accessible Communications

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Administration Department	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need to improve accessibility of preparedness information and emergency information, including for Spanish and Hmong speakers and community members who are deaf/Hard of Hearing	
Description of the Solution:	Ensure accessible communications: secure readily available translation/interpretation services for emergency information and translation of preparedness outreach materials	
Estimated Cost:	Medium	
Potential Funding Sources:	EMPG, Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its constituents	
Benefits:	Medium: Project will have a long-term impact on the reduction of risk exposure to life and property	
Impact on Socially Vulnerable Populations:	Positive impact on socially vulnerable populations through improved access to information	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impacts on Safety and Security and Communications Lifelines	
Impact on Capabilities:	Improved Community Resilience, Public Information and Warning	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires. Improvements in public communication are needed to reach all community members with preparedness and emergency information.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-20 Debris Removal Contract

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Community Development Department (CDD)	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Large scale disasters impacting other parts of the State could impact our ability to secure debris-removal services immediately following a large-scale disaster. The County currently lacks a contract for post-disaster debris operations that could help to ensure access to these services.	
Description of the Solution:	Secure contract for post-disaster debris removal to protect the environment post-disaster and accelerate recovery.	
Estimated Cost:	Low	
Potential Funding Sources:	Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk and exposure and promote the adaptive capacity of Del Norte County and its constituents.	
Benefits:	Medium: Project will have a long-term impact on the reduction of risk exposure to life and property	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	Positive impact on future development. Future development and recovery would be hindered by stalled post-disaster debris removal.	
Impact on Critical Facilities/Lifelines:	Potential positive impacts on Transportation; Safety and Security; Food, Hydration and Shelter; Health and Medical; Energy; Communications; and Hazardous Materials lifelines	
Impact on Capabilities:	Positive impact on Environmental Response/Health and Safety; Infrastructure Systems; and Natural and Cultural Resources capabilities	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires, creating additional need for post-disaster debris removal	
Mitigation Category	☒Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☒Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	High	

DRAFT

DNC-21 Radio Communications

Lead Agency:	Information Technology Department (IT)	
Supporting Agencies:	Office of Emergency Services (OES)	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☐Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need to improve radio communications capabilities, including access to High Frequency radio communications to ensure continued communication capabilities with State during disasters.	
Description of the Solution:	Complete High Frequency Communications Project (equipment installation) to expand communications capabilities during disasters.	
Estimated Cost:	Low	
Potential Funding Sources:	Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Increase capacity, redundancy, and/or resilience of local infrastructure and utilities to reduce potential for community isolation after a hazard event	
Benefits:	Low: Long-term benefits are difficult to quantify in the short term	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Communications lifeline, Safety and Security lifeline	
Impact on Capabilities:	Positive impact on Operational Communications; Intelligence and Information Sharing; and Infrastructure System capabilities	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires. Communications improvements are needed to withstand future emergencies/disasters.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-22 Climate Change Effects

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:	Office of Emergency Services (OES)	
Hazards of Concern:	☒Drought ☐Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☐Tsunami ☒Wildfire
Description of the Problem:	Need for additional information on potential future climate impacts to inform planning in County.	
Description of the Solution:	Study the effects of climate change in our area, including its impact on hazards and vulnerabilities. (Participation in South Beach Climate Resiliency Plan, Drought Task Force, update of the County Safety Element of the General Plan).	
Estimated Cost:	Low	
Potential Funding Sources:	Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Incorporate the best available hazard data in development and construction standards and long-term capital investments to encourage mitigation in new growth areas in Del Norte County.	
Benefits:	Low: Long-term benefits are difficult to quantify in the short term	
Impact on Socially Vulnerable Populations:	Unknown	
Impact on Future Development:	Project will help to inform future development plans and ordinances	
Impact on Critical Facilities/Lifelines:	Project will inform planning, including for critical facilities and functions	
Impact on Capabilities:	Positive impact on Community Resilience; Risk and Disaster Resilience Assessment; and Long-term Vulnerability Reduction capabilities	
Climate Change Considerations:	Project will increase local understanding of climate change and improve ability to plan for future impacts	
Mitigation Category	☐Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-23 EOC and EDC Study

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	Information Technology Department (IT), Sheriff's Office	
Hazards of Concern:	☐Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need for new primary Emergency Operations Center and Emergency Dispatch Center	
Description of the Solution:	Conduct feasibility studies with intent of securing a new primary Emergency Operations Center and Emergency Dispatch Center.	
Estimated Cost:	High	
Potential Funding Sources:	Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Protect community lifelines and critical infrastructure to the 500-year or worst-case scenarios to safeguard continuity of operations in Del Norte County	
Benefits:	Medium: Project will have a long-term impact on the reduction of risk exposure to life and property	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security and Communications lifelines	
Impact on Capabilities:	Improved Operational Communications and Operational Coordination capabilities	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires, leading to a greater need for functional EOC and Emergency Dispatch facilities	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-24 Emergency Warning Sirens

Lead Agency:	Information Technology Department (IT)	
Supporting Agencies:	Office of Emergency Services (OES)	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☐Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need for regular maintenance of current emergency warning sirens and radio remote capabilities to ensure ability to warn of tsunami and fire hazards. Need for additional sirens in strategic locations to improve warning capabilities.	
Description of the Solution:	Expand capacity and level of protection provided by emergency warning sirens. (Maintain current warning sirens and radio remote system and install additional sirens.)	
Estimated Cost:	High	
Potential Funding Sources:	CDBG, NEHRP, HMGP, Measure R, Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Expand awareness of available resources for residents and business owners, focusing on accessibility for individuals in socially vulnerable situations.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and property.	
Impact on Socially Vulnerable Populations:	Positive impact for whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Communications and Safety and Security Lifelines	
Impact on Capabilities:	Positive impact on Public Communication and Warning and Community Resilience capabilities	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires, leading to possible increased need for warning sirens.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-25 Vertical Tsunami Evacuation Structure

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☐Landslide ☒Tsunami ☐Wildfire
Description of the Problem:	The area near South Beach is vulnerable to tsunamis. People in this area cannot evacuate inland or to high ground on foot in time to escape a near-source tsunami threat. A structural “higher ground” alternative is needed for the life safety of people in this area.	
Description of the Solution:	Conduct feasibility study to evaluate the possibility of Vertical Tsunami Evacuation Structure near South Beach. Consider and pursue potential partnerships for this project (City, Harbor District, etc.).	
Estimated Cost:	High	
Potential Funding Sources:	HMGP, CDBG, PDM, EDA, Coastal Conservancy grants	
Implementation Timeline:	5+ years	
Objectives Met:	Incorporate the best available hazard data in development and construction standards and long-term capital investments to encourage mitigation in new growth areas in Del Norte County.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Positive impact for whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security Lifeline	
Impact on Capabilities:	Positive impact on Community Resilience and Long-term Vulnerability Reduction capabilities	
Climate Change Considerations:	Unknown	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

DNC-26 Microgrid Study

Lead Agency:	Administration Department	
Supporting Agencies:	Office of Emergency Services (OES)	
Hazards of Concern:	☐Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need for information on feasibility of microgrid to ensure power for hospital and other critical infrastructure.	
Description of the Solution:	Conduct feasibility study for microgrid to support critical infrastructure during extended power outages	
Estimated Cost:	High	
Potential Funding Sources:	HMGP, CDBG, CBRE, GRIP, Local Funds	
Implementation Timeline:	5+ years	
Objectives Met:	Increase capacity, redundancy, and/or resilience of local infrastructure and utilities to reduce potential for community isolation after a hazard event	
Benefits:	Medium: Project will have a long-term impact on the reduction of risk exposure to life and/or property or will provide an immediate reduction in the risk exposure to property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impacts on Energy; Health and Medical; and Safety and Security Lifelines	
Impact on Capabilities:	Positive impact on Infrastructure Systems and Long-term Vulnerability Reduction capabilities	
Climate Change Considerations:	Climate change can increase the number and intensity of storms and wildfires, possibly leading to increased power outages.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Low	

DRAFT

DNC-27 Cybersecurity Improvements

Lead Agency:	Information Technology Department (IT)	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Cybersecurity improvements are needed to ensure security and continuity during emergency/disasters.	
Description of the Solution:	Improve cybersecurity protection and response to ensure continuity and security during emergencies/disasters.	
Estimated Cost:	Medium	
Potential Funding Sources:	SLCGP, HSGP, Local Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its constituents.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Communications and Safety and Security Lifelines	
Impact on Capabilities:	Positive impact on Access Control and Identity Verification and Cybersecurity capabilities	
Climate Change Considerations:	Unknown	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	High	

DRAFT

DNC-28 Evacuation Zone Awareness

Lead Agency:	Office of Emergency Services (OES)	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Need to promote public understanding of evacuation zones and notification technologies to improve evacuations.	
Description of the Solution:	Publicize Evacuation Zone Maps and provide training on mapping program use to public safety partners. Continue community outreach to promote local Community Alert System registration.	
Estimated Cost:	Low	
Potential Funding Sources:	EMPG (Staff Time)	
Implementation Timeline:	1-5 years	
Objectives Met:	Expand awareness of available resources for residents and business owners, focusing on accessibility for individuals in socially vulnerable situations	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Positive impact on whole community, including socially vulnerable populations	
Impact on Future Development:	None	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security and Transportation Lifelines	
Impact on Capabilities:	Positive impact on Public Information and Warning; Critical Transportation; and Community Resilience capabilities	
Climate Change Considerations:	Climate change impacts can include increased storms and storm intensity, as well as increased wildfire activity, potentially leading to increased evacuations.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	High	

DRAFT

DNC-29 Survey Monument Preservation

Lead Agency:	Community Development Department (CDD)	
Supporting Agencies:		
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Our area is suffering from the destruction of survey monuments and the need for improvement to the regional network of survey monuments.	
Description of the Solution:	Educate the public on survey monument preservation and enhance the regional network of survey monuments by increasing the number of survey monuments with an emphasis on benchmarks to establish a robust regional network of survey monuments.	
Estimated Cost:	High (scalable Low to High)	
Potential Funding Sources:	General Fund, Measure R, Roads Fund, Flood Control Fund	
Implementation Timeline:	5+ years	
Objectives Met:	Prioritize cost-effective and feasible mitigation measures that reduce long-term risk exposure and promote the adaptive capacity of Del Norte County and its residents.	
Benefits:	High: Project will have an immediate impact on the reduction of risk exposure to life and/or property.	
Impact on Socially Vulnerable Populations:	Positive impact for the whole community, including socially vulnerable populations.	
Impact on Future Development:	Positive impact on future development as survey monuments (i.e., benchmarks) provide elevation data to ensure structures are constructed at acceptable elevations relative to risks and assists with verifying compliance with the National Flood Insurance Program. The regional network of survey monuments is critical for pre-disaster planning and rebuilding post disaster as it provides both horizontal control (e.g., property lines) and vertical control (e.g., elevations) countywide.	
Impact on Critical Facilities/Lifelines:	Positive impact on Safety and Security; Food, Hydration, Shelter; Health and Medical; Energy; Communications; Transportation; Hazardous Materials; and Water Systems.	
Impact on Capabilities:	Positive impact on Planning, Community Resilience, and Long-term Vulnerability Reduction	
Climate Change Considerations:	High, preserving and enhancing the regional network of survey monuments provides critical data to support climate change considerations.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

3. CITY OF CRESCENT CITY

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the City of Crescent City with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Crescent City, describes who participated in the planning process, assesses Crescent City's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

3.1 HAZARD MITIGATION PLANNING TEAM

The City of Crescent City identified primary and alternate HMP points of contact and developed this plan over the course of several months, with input from many City departments. Andrew Leighton, Engineering Project Manager, represented the community on the Del Norte County HMP Planning Partnership and Steering Committee, and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 3-1 summarizes City officials who participated in the development of the annex and in what capacity. Additional documentation of the City's planning activities through Planning Partnership meetings is included in Volume 1.

Table 3-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: David Yeager/Public Works Director Address: 377 J Street; Crescent City, CA 95531 Phone Number: (707) 951-3275 Email: dyeager@crescentcity.org	Name/Title: Andrew Leighton/Engineering Project Manager Address: 377 J Street; Crescent City, CA 95531 Phone Number: (707) 951-3275 Email: aleighton@crescentcity.org
National Flood Insurance Program Floodplain Administrator	
Name/Title: Ethan Lawton Address: 1062 G Street, Suite 1; Arcata, CA 95521 Phone Number: (707(269-1073 Email: elawton@shn-engr.com	
Additional Contributors	
Name/Title: Eric Wier, City Manager Method of Participation: Oversight	

3.2 COMMUNITY PROFILE

Crescent City, California sits between the mighty Pacific Ocean, ancient California redwood forests and tribal lands, and two wild rivers. It is noted as the largest city on the Redwoods Coast.

DRAFT

The city of Crescent City was founded in 1853 when F.E. Weston set up a small mill to cut wood for the lumber industry. The city was incorporated in 1854. When Del Norte County formed in 1857, Crescent City became the County seat. The logging and fishing industries that historically made up the export-based economy caused boom and bust cycles of employment and population. With the decline of these industries, fluctuations in resident population have dropped. Pelican Bay State Prison was built in 1989, expanding the city limits and adding an inmate (or group quarters) population that effectively doubled the city's population. The city's population, including Pelican Bay, makes up roughly 30 percent of Del Norte County residents. As one of the few larger commercial areas within the predominantly rural northern coastal redwoods, the City generally has a higher proportion of land in commercial and service uses. Hotels and harbor uses serve the tourist and fishing industries. While there is a diverse housing stock, with many high-end beachfront homes, a high number tend to be modest wood frame rental units. The former thriving downtown commercial shopping district never recovered from the 1964 tsunami, in which much of the area was destroyed. Newer commercial development has centered on Highway 101.

Crescent City has a City Manager/Council form of government with a five-member elected City Council. In 2017, the City employed 64 full-time and 25 part-time workers, more than 43 of whom are employed in public works activities. The City of Crescent City assumes responsibility for the adoption of this plan; The City Manager will oversee its implementation.

3.2.1 Service Area and Trends

Crescent City is the only incorporated city in Del Norte County and is California's northernmost coastal city, 350 miles north of San Francisco and 330 miles south of Portland, Oregon. The city is bordered by the ocean, broad beaches, coastal bluffs, forest and rural county residential development. U.S. Highway 101 bisects the 1.6 square miles of urbanized city land area.

According to the U.S. Census, the 2022 population for Crescent City was 6,379, a 12.7 percent decrease from the 2010 Census. The Crescent City population has continued to decline, with the U.S. Census estimating the 2024 Crescent City population at 6,209, a 7.0 percent decrease.

Research has shown that some populations are at greater risk from hazard events because of decreased resources or physical abilities. These populations can be more susceptible to hazard events based on a number of factors including their physical and financial ability to react or respond during a hazard, and the location and construction quality of their housing. Data from the 2022 U.S. Census indicates that 2.9 percent of the population is 5 years of age or younger, 13.5 percent is 65 years of age or older, 2.3 percent is non-English speaking, 15.1 percent is below the poverty threshold, and 14.8 percent is considered disabled.

As a coastal town, Crescent City has weather that remains cool throughout the year, with summer temperatures averaging 60-70 degrees Fahrenheit and winter temperatures averaging 40-50 degrees. Annual rainfall averages 75 inches per year, with the occasional severe winter storm bringing winds of up to 90 miles per hour. Due to its geography, and drainage to the ocean, flooding has not brought many problems to the town. Crescent City has experienced tsunami conditions 17 times between 1943 and 1994, the most significant being the 1964 tsunami, which resulted in 12 fatalities.

DRAFT

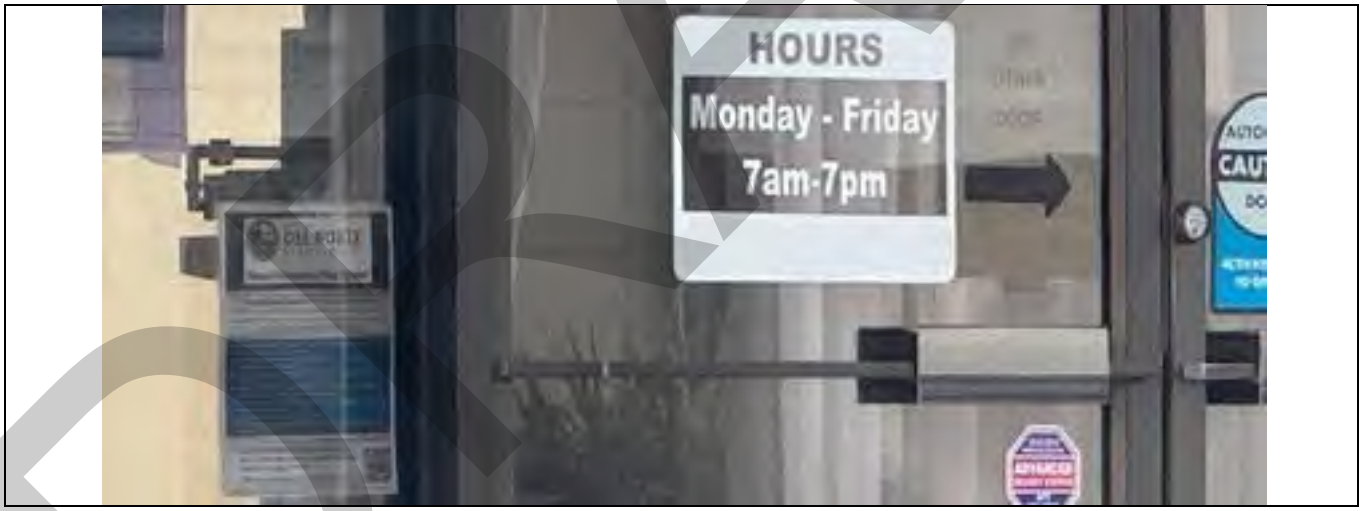
In addition to the city proper, the City annexed the area around the Pelican Bay Prison in 1991. Maps of this area appear in the Jurisdictional Risk Assessment below.

3.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores, hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

In addition to that work, the City partnered with the County to post information about the HMP update in the few public services available in the City, including the County Administrative offices, State Farm Insurance, Crescent City Harbor, Open Door Clinic, Pacific Northwest Physical Therapy, and the Crescent City Library. Figure 3-1 shows an example outreach effort and Appendix A includes all outreach efforts.

Figure 3-1. Public Outreach by Crescent City



3.3.1 Public Feedback Integration

Of the 196 responses to the public survey, 69 respondents reported that they received services from the District. These 69 respondents were extremely or very concerned about earthquakes, tsunamis, and wildfires. They reported receiving emergency information through mass notifications, government websites and newsletters, TV/radio, and Facebook. They expressed concern about the lack of backup power facilities, homes located in hazard areas, and vulnerable roads. The mitigation strategy was prioritized with these concerns and community limitations in mind.

DRAFT

3.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. This section focuses on the stakeholders invited to participate in the planning process by the County. The following organizations were invited to participate by attending a Steering Committee meeting, responding to the stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan.

3.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

The planning process included active participation from local and regional agencies with direct responsibilities in hazard mitigation. Public works and engineering departments contributed infrastructure data and identified vulnerabilities. Emergency management officials provided guidance on preparedness and response capabilities. Fire protection services and regional water agencies offered insights into wildfire risk, water infrastructure, and emergency response coordination. These agencies played a key role in shaping mitigation strategies and ensuring alignment with existing emergency plans.

- City of Crescent City
- Del Norte County OES
- CalOES
- CalFire
- Caltrans

3.4.2 Agencies that Have the Authority to Regulate Development

Agencies with regulatory authority over land use and development were engaged to ensure that mitigation strategies could be effectively integrated into local planning frameworks. This included community development and building departments, planning commissions, and city councils. Environmental health officials also participated, offering expertise on regulatory requirements related to public health and safety. Their involvement ensured that proposed actions were feasible and aligned with local codes and ordinances.

- Del Norte County Planning Division
- City of Crescent City

3.4.3 Neighboring Communities

Agencies with regulatory authority over land use and development were engaged to ensure that mitigation strategies could be effectively integrated into local planning frameworks. This included community development and building departments, planning commissions, and city councils. Environmental health officials also participated, offering expertise on regulatory requirements related to public health and safety. Their involvement ensured that proposed actions were feasible and aligned with local codes and ordinances.

DRAFT

- Del Norte County
- Elk Valley Rancheria
- Tolowa dee-ni' Nation
- Tolowa Nation
- Yurok Tribe
- Pulikla Tribe of Yurok People
- Bertsch Oceanview Community Services District
- Big Rock Community Services District
- Crescent Fire Protection District
- Crescent City Harbor District
- Gasquet Community Services District
- Klamath Community Services District
- Smith River Community Services District
- Smith River Fire Protection District
- Del Norte County Library District

3.4.4 Representatives of Business, Academia, and Other Private Organizations

The planning team engaged representatives from the business community, academic institutions, and private sector organizations. Local businesses and utility providers contributed perspectives on economic resilience and infrastructure continuity. Academic institutions provided technical expertise and helped assess long-term risks. This diverse input helped ensure that the plan addressed the needs of the broader community and supported public-private collaboration in mitigation efforts.

- Del Norte Chamber of Commerce
- Del Norte Unified School District
- Pacific Power
- Frontier Communications
- Spectrum
- Blue Star Gas
- Pelican Bay State Prison

3.4.5 Nonprofit Organizations and Community-Based Organizations

Nonprofit and community-based organizations were included to ensure that the needs of vulnerable populations were considered in the planning process. These organizations offered valuable insights into community outreach, emergency support services, and equity considerations. Their participation helped strengthen the plan's focus on inclusive and accessible mitigation strategies.

DRAFT

- Del Norte Department of Health & Social Services
- Crescent City Housing Authority
- Rural Human Services
- Sutter Coast Hospital
- American Red Cross Del Norte County Chapter
- Del Norte and Tribal Lands Community Food Council

3.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Crescent City performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Crescent City to identify opportunities for integrating mitigation concepts into ongoing City procedures.

3.5.1 Planning and Regulatory Capability and Integration

Table 3-2 summarizes the planning and regulatory tools that are available to Crescent City.

DRAFT

Table 3-2. Planning and Regulatory Capability and Integration

Capability	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Building Code	Yes	California Building Code adopted 2022, Electrical, mechanical, plumbing 2022 California Code of Regulations Chapter 15.04	Local	Sean Rosenthal / Building Inspector & Dan Minges / Building Official
In 2008, Crescent City adopted the International Code Council as adopted by the State Department of Housing and Community Development, Division of Codes and Standards, the 2007 edition of the California Building Code Part 1 through Part 6 and Part 9.				
Zoning/Land Use Code	Yes	Crescent City Municipal Code Title 17 (zoning)—Ord. 700 § 5 (Exhibit A (part)), 2003: Ord. 695 § 2 (part), 2003	Local	Planning Department
• Does the zoning ordinance conform to the comprehensive plan in terms of discouraging development or redevelopment within natural hazard areas? This is done during application review and not through overlay zones. • Does the ordinance contain natural hazard overlay zones that set conditions for land use within such zones? The City has Hazard mapping used in application review but no formal overlay zones. • Does the ordinance prohibit development within, or filling of, wetlands, floodways, and floodplains? This is done during application review and not through zoning ordinance provisions. See also Municipal Code 15.32 Flood Damage Prevention Ordinance. • Is a zoning code in place to encourage resilient development through density bonuses for projects outside of natural hazard areas? Yes, City has Density Bonus Ordinance, and this would be one consideration. • Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use? No, this is done during application review and not through overlay zone. • If applicable, is there a wildland-urban interface development code in place to prohibit or limit development in high wildfire risk areas? This is done during application review and not through overlay zone.				
Subdivision Code	Yes	Crescent City Municipal Code Title 16 (subdivisions) – Ord. 587 (part), 1983; prior code § 29-1001	Local	Planning, Building& Public Works
This is done during application review with City departments and through CEQA and not through the subdivision code. The City has few lots left to be able to subdivide so not an important factor. • Do the subdivision regulations restrict the subdivision of land within or next to natural hazard areas? This would be done during application review with City departments and through CEQA and not through the subdivision code. • Do the regulations provide for conservation subdivisions or cluster subdivisions to conserve environmental resources? This would be done during application review with City departments and through CEQA and not through the subdivision code. • Do the regulations allow density transfers where hazard areas exist? This would be done during application review with City departments and through CEQA and not through the subdivision code.				
Site Plan Code	Yes	California Building Code adopted 2022 & California Green Building Standard Code 2022	Local	Planning & Building Inspection
This would be done during application review with City departments and through CEQA and not through the subdivision code. Stormwater mitigation & soil condition to determine whether building site is allowed.				

DRAFT

Capability	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Stormwater Management Code	Yes	CCMC Chapter 12.36, Title 12.-Ord. 697 § 2 (part), 2003: Ord. 695 § 2 (part), 2003 & California Green Building Standard Code 2022	Local	Planning, Building& Public Works
This would be done during application review with City departments and through CEQA and not through the subdivision code. Code prohibits illegal discharges and illicit connections. Environmental and property damage mitigation through engineered design and flow calculations (ref. Stormwater Master Plan).				
Real Estate Disclosure Requirements	Yes	CA. State Civil Code 1102	State, local	Planning, Building & Public Works
The City has a pre-application process and is available to be done during application review with City departments and through CEQA and not through the subdivision code. CA. State Civil Code 1102 requires full disclosure on Natural hazard exposure of the sale/re-sale of any and all real property.				
Growth Management	No	City 6th Cycle Housing Element, 2023	Local	Planning Dept
The 2023 Housing Element has identified vacant or underdeveloped parcels that can be developed which are not subject to Hazards. The City is in compliance with State growth management mandates via 2001 adoption of General Plan and the City 6th Cycle Housing Element, 2023.				
Environmental Protection Ordinance(s)	No	CEQA, General Plan Section 6 Natural resources Adopted 2001	Local, State	Planning Dept
Currently reviewed during application process The City complies with the California Environmental Quality Act (CEQA) and General Plan Section 6 Natural resources Adopted 2001.				
Flood Damage Prevention Ordinance	Yes	Crescent City Municipal Code, Chapter 15.32 (Ord. No. 802, § 1, 1-22-2018)	Local	Planning, Building & Public Works
New construction must meet CBC & CMCC ordinance standards. Variances require planning commission approval. See also Municipal Code 15.32 Flood Damage Prevention Ordinance				
Climate Change Ordinance	Yes	AB 691	State	State Lands Commission
AB 691 requires all trustees of state lands with annual gross revenues exceeding $250,000 to prepare and submit an analysis of sea level rise adaptation strategies to the State Lands Commission. See also https://opc.ca.gov/wp-content/uploads/2024/05/California-Sea-Level-Rise-Guidance-2024-508.pdf for specific sea level scenarios for Crescent City. WWTP is undergoing a planning study to determine necessary operational equipment upgrades and climate change effects will be included per building code.				
Fire Hazard Severity Zones	Yes	Ordinance No. 855	City	City of Crescent City
On May 2, 2025, the City adopted the Local Responsibility Area Fire Hazard Severity Zones as identified by CAL FIRE.				

DRAFT

Capability	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Planning Documents				
General Plan	Yes	General Plan Section 7 Health and Safety Adopted 2001, Housing Element 2023	Local	Planning

- Does the future land-use map clearly identify natural hazard areas? No, hazard areas contained in separate map
- Do the land use policies discourage development or redevelopment within natural hazard areas? Yes, General Plan Section 7 Health and Safety
- Does the plan leave enough space for expected future growth in areas outside natural hazard areas? Yes. Through Housing Element policies where the City is encouraging higher densities in low hazard areas.

Capital Improvement Plan	Yes	Capital Improvement Plan	Local	Linda Leaver / Finance Director / Crescent City

The Capital Improvement Plan is a five-year plan that is updated annually and identifies projects for roads, water, and sewer infrastructure.

- Does the capital improvement program limit spending on projects that would encourage development in areas vulnerable to natural hazards? No, in fact the CIP reflects the extreme spending required to develop and maintain projects in vulnerable areas. WWTP CCFD, CCPD, & Beachfront Park are in tsunami zone, Ranney collector is in flooding of Smith river, elevated tank is being decommissioned due to seismic vulnerabilities, and Pebble Beach is stabilizing a bluff due to storm surge erosion.
- Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards? There are no policies in place to limit improvements or discourage development in vulnerable areas.
- Does the capital improvement program provide funding for hazard mitigation projects identified in the FEMA Mitigation Plan? Some projects have hazard mitigation synergies, but there isn't an account or budget line item specifically for hazard mitigation.

Floodplain Management or Watershed Plan	Yes	General Plan Section 7 Health and Safety Adopted 2001. See also Municipal Code 15.32 Flood Damage Prevention Ordinance	local	Planning, Building & Public Works

- Does the plan include policies that restrict development that would increase downstream flooding? Yes, General Plan Section 7 Health and Safety Adopted 2001. See also Municipal Code 15.32 Flood Damage Prevention Ordinance
- Does the plan include policies that restrict development that would increase sedimentation or erosion? No, but the City requires adherence to the Caltrans Storm Water BMP Handbook in construction bidding process

Stormwater Management Plan	Yes	City of Crescent City General Plan Section 4E, 2001 and Local Coastal Plan Extract Policy Document, 2011	Local	Public Works

The City is exempt from the requirements to have a Stormwater Management Plan. The City has been upgrading outdated stormwater facilities. Stormwater is considered in application review processes in order to improve handling of flood flows.

DRAFT

Capability	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Open Space Plan	Yes	General Plan Sections General Plan Mapping 2017	local	Planning

Past Land Use decisions have been incorporated into the City's General Plan/Mapping for Open Space and Natural resource designations. Areas include Beachfront Park in the 1964 tsunami damaged portion of the City, setbacks from coastal bluffs and near flood zones. Public property designated Open Space includes parks, and playgrounds, vista areas, general open spaces, beaches, wooded areas, drainage channels, airport flight path zones and marinas.

- Does the plan prioritize open green spaces? Yes, where necessary.
- Are such spaces planned in areas with high impervious surface coverage? No, mostly natural or park areas
- Does the plan keep in mind the need for tree cover to mitigate the urban heat island effect? Are tree cover expansion projects planned in high-heat areas? This is not an issue in Crescent City

Urban Water Management Plan	Yes	City General Plan, 2001 Section 4	Local	Planning

City General Plan, 2001 Section 4 Public Facilities and Services discusses water supply and delivery.

Economic Development Plan	Yes	Economic Development Strategic Action Plan, 2021	Local	Economic Development

The City Council adopted the Economic Development Strategic Action Plan on June 2021. The uncertainty of tsunamis is noted as affecting economic development. The Plan otherwise lacks integration with the HMP. Recipe 1Z encourages adoption of new "recipes," which could include integration.

Transportation Plan	Yes	Del Norte Active Transportation Plan	County	Del Norte Local Transportation Commission

- Does the transportation plan limit access to hazard areas? No, emergency evacuation would be needed from these areas. Improvements such as signage and gate across jetty, bridge over Elk Creek above 100-yr flood elevation, and improving traffic flow along Front Street and Pebble Beach Dr (for both motorized and non-motorized vehicle) integrates transportation planning into HMP
- Is transportation policy used to guide growth to safe locations? The City is mostly developed. Focus is to assure emergency evacuation in all areas of the City
- Are movement systems designed to function under disaster conditions (e.g., evacuation)? The City is integrating evacuation needs with priority transportation projects
- Does the transportation plan promote compact, mixed-use development near transit hubs and away from high hazard areas? The Transportation Plan is integrated with the City's Downtown mixed use zone and transit hub.

Urban Water Management Plan	Yes	2020 Urban Water Management Plan for Crescent City, CA	Local	Department of Public Works

The Urban Water Management Plan was prepared in compliance with requirements of the California Department of Water Resources (DWR) pursuant to the Urban Water Management Planning Act (UWMP Act) and the Water Conservation Bill of 2009. The plan includes a review and evaluation of historic precipitation data, historic Smith River discharge, and historic groundwater elevations in the Smith River Plain Groundwater Basin.

DRAFT

Capability	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Response/Recovery Planning				
Emergency Operations Plan	No	Emergency Operations Plan, 2021	County	CCFD

The City uses the County-wide plan adopted in 2021.

- Does your CEMP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards? Yes
- Is there an adopted evacuation and shelter plan to deal with emergencies from natural hazards? Yes
- Are evacuation routes located outside of floodplains, sea level rise inundation zones, or liquefaction zones? Evacuation routes defined from high risk location to low risk location. (reference Tsunami).
- Are there emergency communication systems in place? Yes
- Are those systems deployed in areas with the highest potential hazard exposure? Yes

Plan Integration

Table 3-2 lists the local planning mechanisms currently in place for the City. Several of these mechanisms such as the General Plan, Building Code, Zoning Code, and Capital Improvement Plan have already been integrated into the HMP. These documents incorporate hazard-related policies, including seismic safety standards, floodplain development restrictions, and growth management strategies.

The HMP builds on these foundations by identifying mitigation actions that align with and support existing policies, ensuring that hazard mitigation is not treated as a standalone effort but as a coordinated component of broader community planning. As these local plans are updated, information from the HMP, such as risk assessments, vulnerability data, and prioritized projects can be incorporated to maintain consistency and reinforce long-term resilience goals.

This integration enhances the City's overall risk management framework and ensures that future HMP updates are informed by comprehensive, data-driven insights. By aligning planning efforts across departments and documents, the City strengthens its ability to mitigate risks and adapt to evolving environmental conditions.

3.5.2 Development and Permitting Capability

Table 3-3 summarizes the capabilities of Crescent City to oversee and track development.

3.5.3 Administrative and Technical Capability

Table 3-4 summarizes potential staff and personnel resources available to Crescent City and their current responsibilities that contribute to hazard mitigation.

3.5.4 Fiscal Capability

Table 3-5 summarizes financial resources available to Crescent City.

DRAFT

Table 3-3. Development and Permitting Capability

	Yes/ No	Comment
Do you issue development permits? • **If you issue development permits, what department is responsible?** • **If you do not issue development permits, what is your process for tracking new development?**	Yes	Planning division for review. Building department for issuance & inspection.
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory? • **If you have a buildable land inventory, please describe**	No	Vacant lot property list in Housing Element 2023
Describe the level of buildout in your jurisdiction.	N/A	Without reference to actual numbers (additional information may be available in the City's Housing Element 2023), the City is built out with few remaining vacant parcels. However, much of the developed area is more than 40 years old. There is an opportunity to redevelop properties to contain higher densities.

Table 3-4. Administrative and Technical Capabilities

Resources	Available?	Comment
Administrative Capability		
Planning Board	Yes	The City has a planning commission
Zoning Board of Adjustment	No	-
Planning Department	Yes	SHN - The City currently contracts with SHN to provide full planning services (Planning Dept)
Mitigation Planning Committee	No	Done through Planning Dept
Environmental Board/Commission	No	Done through Planning Dept
Open Space Board/Committee	No	Done through Planning Dept
Economic Development Commission/Committee	No	Economic Development Manager – 1 Manager
Public Works/Highway Department	Yes	Public Works
Construction/Building/Code Enforcement Department	Yes	Building Department
Emergency Management/Public Safety Department	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Public Works
Mutual aid agreements	Yes	The City of Crescent City has a mutual aid agreement with PBSP and the US Park Service.

DRAFT

Resources	Available?	Comment
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	Jenn Petross
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Planning Dept—1 to 3 city planners, as needed and 1 city engineer.
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works Department—1 Director; 1 Wastewater Treatment Plant Supervisor; 1 Project Manager, 1 Engineering Technician. City can also contract for these services
Planners or engineers with an understanding of natural hazards	Yes	Planning Dept., Public Works
Staff with expertise or training in benefit/cost analysis	Yes	Finance Director
Professionals trained in conducting damage assessments	Yes	Public Works Department – 1 City Manager, 1 Engineering Project Manager
Personnel skilled or trained in GIS and/or Hazus applications	Yes	The Admin Department includes an Information Technology (IT) division that include 1 senior GIS Analyst
Staff that work with socially vulnerable populations or underserved communities	Yes	Housing Department – 1 Director, 1 Staff
Environmental scientists familiar with natural hazards	Yes	No Scientists on City Staff. City can and has contracted for survey work on as needed basis.
Surveyors	No	No licensed Surveyors on City Staff. City can and has contracted for survey work on as needed basis.
Emergency manager	Yes	City Manager, Fire Chief, County Office of Emergency Services
Grant writers	Yes	Grants and Economic Development Manager – 1 Manager Consider the following: Are data and maps from the HMP used to support documentation in grant applications?
Other (this could include stormwater engineer, environmental specialist, etc.)		While this is a Yes/ No table asking about capabilities, it should be noted that rural cities have to abide by the same overwhelming requirements of State legislation as more urban cities who have numerous staff. So, while the City has capable staff, it is often diverted from completing the important tasks to the urgent tasks the State mandates.

DRAFT

Table 3-5. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes (Water & Sewer)
Impact fees for homebuyers or developers of new development/homes	City can but does not implement impact fees
Stormwater utility fee	City can but does not implement fees
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Yes
Open Space Acquisition funding programs	City can but does not generally acquire properties as part of development due to long-term maintenance requirements
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	

3.5.5 Education and Outreach Capability

Table 3-6 summarizes the education and outreach resources available to Crescent City.

Table 3-6. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	Yes	Communications office
Personnel skilled or trained in website development	Yes	On staff
Hazard mitigation information available on your website	Yes	Cal OES MyHazards/Tsunami Warning Center
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	Tsunami Sirens
Natural disaster/safety programs in place for schools	No	-
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	-
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	Yes	Del Norte Community Alert System, Facebook, radio

DRAFT

3.5.6 Community Classifications

Table 3-7 summarizes classifications for community programs available to Crescent City.

Table 3-7. Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
National Weather Service StormReady Certification	No	-	-
Firewise Communities classification	No	-	-

3.5.7 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 3-8 summarizes the adaptive capacity for each identified hazard of concern and the City's capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

3.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the National Flood Insurance Program (NFIP). The floodplain administrator listed in Table 3-1 is responsible for maintaining this information.

DRAFT

Table 3-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Moderate
Extreme Heat	Moderate
Extreme Wind	Moderate
Excessive Rain	Moderate
Earthquake	Moderate
Flood	Moderate
Landslide	Moderate
Tsunami	High
Wildfire	High

3.6.1 Repetitive Loss

The OpenFEMA NFIP Multiple Loss Properties dataset was analyzed to gain an understanding of repetitive flood loss in the City. The dataset provides information on structures that have had multiple NFIP claims across the history of the program. According to the dataset, there are no repetitive loss or severe repetitive loss properties in the City of Crescent City.

3.6.2 Flood Vulnerability Summary

Table 3-9 provides a summary of the NFIP program in Crescent City.

Table 3-9. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction.	The only area in City Limits is limited to Elk Creek flood zone and coastline coastal hazards
Do you maintain a list of properties that have been damaged by flooding?	No recent flooding events on Elk Creek have occurred that damaged properties. Storm damage along western coastal bluffs (Pebble Beach Drive) occurred in 2023
Do you maintain a list of property owners interested in flood mitigation?	No inquiries have been made since last HMP update. As part of storm damage along western coastal bluffs (Pebble Beach Drive) that occurred in 2023, 1 undevelopable property was quit claimed to the City.
How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what projects are underway.	There are no RiskMAP projects within City Limits
How do you make Substantial Damage determinations?	Public Works and Building Dept.
How many Substantial Damage determinations were declared for recent flood events in your jurisdiction?	There were none made since last HMP

DRAFT

NFIP Topic	Comments
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? If there are mitigation properties, how were the projects funded?	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? If not, state why.	Yes
NFIP Compliance	
What local department is responsible for floodplain management?	Planning Dept, Community Development Director under Public Works Dept.
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	See https://opc.ca.gov/wp-content/uploads/2024/05/California-Sea-Level-Rise-Guidance-2024-508.pdf for specific sea level scenarios for Crescent City
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	No but it would be helpful to transfer FEMA data to City's GIS
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Review City's Hazard mapping and Firmette during permit application review
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Foundation seismic retrofit, increase in square footage, addition, or remodel which required code inspection.
What are the barriers to running an effective NFIP program in the community, if any?	Time and funding and minimal flooding concerns
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state the violations.	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	City has not had a CAV or CAC event.
What is the local law number or municipal code of your flood damage prevention ordinance?	Municipal Code Section 15.32, Jan 22, 2018
What is the date that your flood damage prevention ordinance was last amended?	Jan 22, 2018
Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways?	It meets minimum requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Planning/Planning Commission would except the City hasn't had development proposed in FEMA flood zones since last HMP update

DRAFT

NFIP Topic	Comments
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	The city does not plan to join the CRS and there is no community interest in improving our CRS classification. The number of residents in a NFIP flood zone does not justify the resources required for this application process.

3.7 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of Crescent City's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

3.7.1 Hazard Area

Hazard area maps provided below illustrate the probable hazard areas impacted within the city are shown in Figure 3-2 and Figure 3-3. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Crescent City has significant exposure. The maps show the location of potential new development, where available.

3.7.2 Hazard Event History

The history of natural and non-natural hazard events in Crescent City is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 3-10 provides details on loss and damage in Crescent City during hazard events since the last hazard mitigation plan update.

DRAFT

Figure 3-2. Crescent City Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location

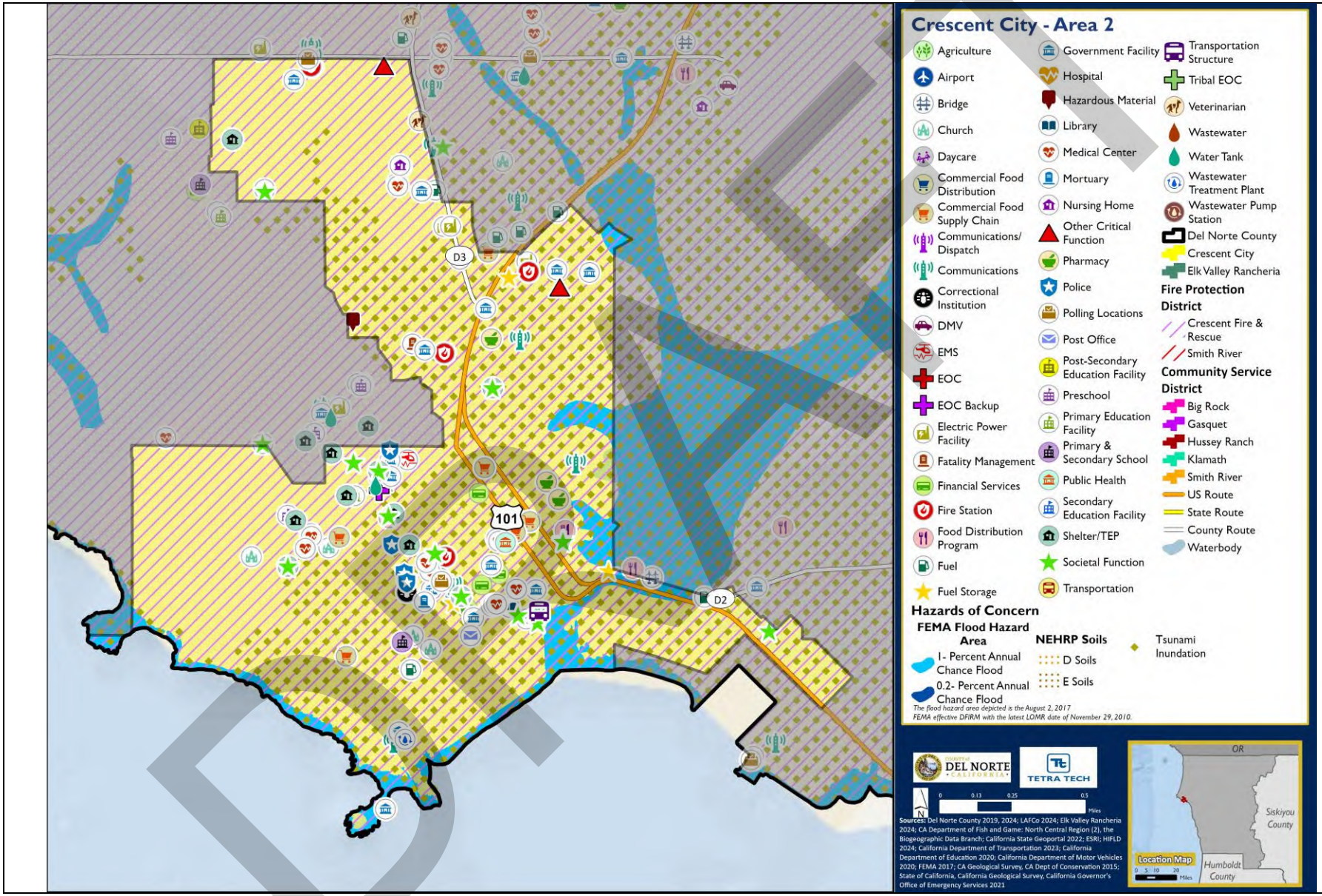


Figure 3-3. Crescent City Wildfire and Landslide Hazard Area Extent and Location

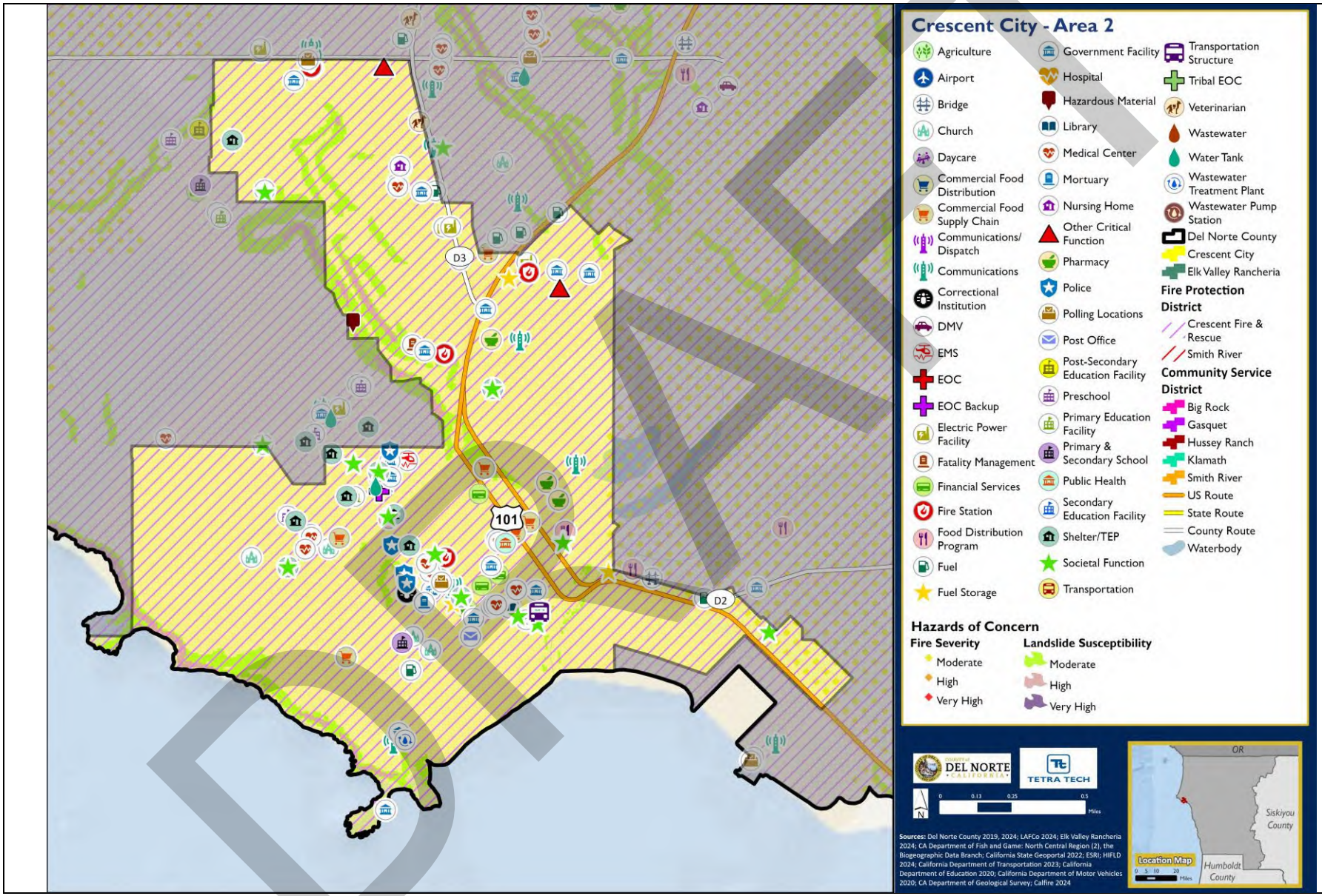


Table 3-10. Hazard Event History in Crescent City

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Crescent City
February 24 to March 1, 2019	Severe Storm DR-4434-CA	Yes, Federal	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	None
January 20, 2020 to May 11, 2023	Pandemic (COVID-19) DR-4482-CA EM-3428-CA	Yes, Federal	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023.	Projects delayed due to limited working hours; rampant inflation caused cancellation of Amador water tank rehabilitation project.
September 4 to November 17, 2020	Wildfire DR-4569-CA CA20-3	Yes, State and Federal	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	None
December 27, 2022 to January 31, 2023	Flood DR-4683-CA CA23-1	Yes, State and Federal	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	Loss of 30+ trees in city parks. CalOES refund for expenses still pending payment.
February 21 to July 10, 2023	Severe Storm, Flood DR-4699-CA EM-3592-CA CA23-3	Yes, State and Federal	Severe storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199.	None

DRAFT

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Crescent City
August 15, 2023	Wildfire CA23-5	Yes, State	Dry thunderstorms produced lightning strikes across the Six Rivers National Forest. 27 fires developed in the Gasquet Ranger District and grew rapidly, jumping Highway 199 causing a 3-week closure and resulting in the evacuation of the Town of Gasquet. The fire destroyed high-tension powerlines powering all of Del Norte County. The County was without power through August 25 when generators were installed. Main transmission lines were not repaired until September 10. The fire burned into October with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	Loss of electricity in Crescent City for 7 days. Pacific Power brought in many generators and ran from diesel for a couple of weeks thereafter. Variable Frequency Drive at Ranney well failed on 2 pumps due to power surge. City ran on one available pump for 6 months with risk of insufficient water in case of large scale local fire. Extreme city crew overtime and emergency contracts for lift station pumping due to lack of backup generators. Failure of generator at Chlorination plant due to age of engine and extended use. Failure of generator at Ranney well due to circuit board failure. Significant smoke in area for respiratory issues.
January 13, 2024	High Wind	N/A	An atmospheric river resulted in 3 to 7 inches of rainfall in roughly 8 to 10 hours. This resulted in the highest flows on the Mad River and Redwood Creek since the 1970s. Widespread creek flooding occurred in Del Norte and Humboldt with multiple homes damaged or destroyed.	Loss of bluff in block failure on South Pebble Beach Drive between 6th & 7th streets. Estimated temporary repair $5M.

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

3.7.3 Hazard Ranking

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for Crescent City.

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. Crescent City reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, Crescent City indicated the following:

DRAFT

- High rainfall and plentiful water supply from Smith River means that the City does not experience drought conditions
- Coastal proximity means very stable and lower temperatures compared with the rest of the County
- Winter storms bring extreme wind that cause power outages and tree fall damage in city parks
- Excessive rainfall during winter storms caused and will continue to cause landslide failure of S. Pebble Beach Drive
- Proximity to the Cascadia Subduction Zone is a major concern for the City
- Per FEMA flood maps there is only one city block of the city in a flood zone
- While the risk of wildfires within City boundaries is lower than other part of the county, smoke and power outages caused by wildfires have historically impacted the City

Table 3-11 shows Crescent City's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 3-11. Hazard Ranking

Hazard	Rank
Drought	Low
Extreme Temperature	Low
Extreme Wind	Medium
Excess Rain	Medium
Earthquake	Medium
Flood	Low
Landslide	Medium
Tsunami	High
Wildfire	Medium

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

3.7.4 Identified Issues

After review of Crescent City's hazard event history, hazard rankings, hazard location, and current capabilities, Crescent City identified the following vulnerabilities within the community:

- Tsunami
  - It is estimated that there are 417 structures located in tsunami inundation areas including 230 residential properties and 164 commercial properties; however, there are only 23 flood insurance policies in force in the City.
- Earthquake
  - More than 87 percent of the housing stock was built before modern seismic codes were in force

DRAFT

- Flooding
  - In 2017 FEMA revised the Flood Insurance Rate Maps for the City of Crescent City. The revised maps are no longer based on the 1964 Tsunami and only reflect storm surge and flooding potential associated with the Elk Creek Floodplain. As a result, many of the critical facilities that were in a mapped 1-percent annual chance flood zone have been removed. However, critical facilities used for storing fuel and many commercial structures are located within a 1 percent chance flood zone.
- Landslides
  - Coastal bluffs and public infrastructure located along the bluffs have been impacted by winter storms. Several locations along the coastline are experiencing landslides resulting in coastal bluff retreat. City streets, parking lots, storm drains and water and sewer lines are at risk.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

3.8 CONDITIONS THAT MAY IMPACT RISK

3.8.1 Population Pattern Trends

Population projections from the California Department of Finance (DOF) show that the population of Del Norte County is expected to decrease through the year 2070. Projections are not available for municipalities. However, DOF releases annual population estimates. From January 1, 2024, to January 1, 2025, Crescent City's population rose by 8.4 percent from 5,588 people to 6,056 people. Considering the percentage of children under the age of five is only 2.9 percent in Crescent City, it seems more likely that the increase in population accounts for people moving to Crescent City rather than children being born. If this is the case, this means people unfamiliar with the climate and hazard environment of Del Norte may be moving to the City.

3.8.2 Changes in Land Use and Development

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction's overall risk to its hazards of concern. Recent and expected future development trends, including major residential/commercial development and major infrastructure development, are summarized in Table 3-12 through Table 3-14.

DRAFT

Table 3-12. Number of Building Permits for New Construction Issued Since the Previous HMP

	New Construction Permits Issued			
	Single Family	Multi-Family	Other (commercial, mixed-use, etc.)	Total
2019				
Total Permits	N/A	N/A	N/A	N/A
Permits within SFHA	N/A	N/A	N/A	N/A
2020				
Total Permits	2	0	8	108
Permits within SFHA	0	0	0	0
2021				
Total Permits	3	0	17	124
Permits within SFHA	0	0	0	0
2022				
Total Permits	8	2	7	108
Permits within SFHA	0	0	0	0
2023				
Total Permits	2	0	5	75
Permits within SFHA	0	0	0	0

SFHA = Special Flood Hazard Area (1% flood event)

Table 3-13. Recent Major Development and Infrastructure from 2017 to Present

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
6-Plex	Multi-Family	6	650 D Street	None	Complete
8-Plex	Multi-Family	8	545 C Street	None	Complete

* Only location-specific hazard zones or vulnerabilities identified.

Table 3-14. Known or Anticipated Major Development and Infrastructure in the Next Five Years

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
Battery Point	Multi-Family	162	1300 E Street	None	In Construction
Harbor Point Senior Housing	Multi-Family	27	655 H Street	None	In Construction
Work Force Housing	Multi-Family	32	SW 3rd & F	None	Design
Roosevelt Estates	Multi-Family	56	1405 California	None	In Construction

DRAFT

3.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

3.9.1 Past Mitigation Action Status

Table 3-15 indicates progress on the City's mitigation strategy identified in the 2021 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

Table 3-15. Status of Previous Mitigation Actions

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
CC-1	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard. This includes critical facilities and infrastructure such as, City Hall, water supply infrastructure, storm drains, wastewater infrastructure, and clay sewer lines.	Planning	1) Police Department in progress has completed planning & is in design for PS&E. Anticipated construction of addition in 2025 2) City Hall is No Progress 3) Water Supply is in progress with 100% PS&E for Surge Tank to be constructed 2025. 4) Storm Drain planning will be completed in 2024. Published SDMP report on file. 5) WWTP is in progress for update to include seismic resilience & new water regulations. 6) Clay sewer lines have completed planning, have 90% PS&E for CIPP lining to be completed over next 5 years.	1) Yes 2) No 3) Yes 4) Yes 5) Yes 6) Yes	1) Addition is primarily for needed increase in space and security. Will meet new building code for seismic 2) N/A 3) Loss of power leads to pressure spikes in water mains and rupture. Surge tank will absorb spikes 4) SDMP calculates flood surge from all watersheds. Report will highlight necessary improvements 5) Enterococci & tsunami are new regulations requiring a complete overhaul of WWTP. 6) Inundation & Infiltration have been an ongoing burden to the WWTP. Pipe lining will reduce I&I and meet recent civil obligations	1) Seismic & Tsunami 2) N/A 3) Loss of electricity, seismic, wildfire 4) Flooding & excessive rainfall 5) Tsunami 6) excessive rainfall

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
CC-2	Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including the General Plan and review of projects within the coastal zone	Planning	Ongoing as part of application review. City will be updating Section 7 Health and Safety of the General Plan (Safety Element) in 2025 with general funds	Yes	Safety Element update is a State requirement.	Seismic, tsunami, fires, flood, SLR
CC-3	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	City of Crescent City	Complete	No	-	-
CC-4	Continue to maintain good standing and compliance under the NFIP through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements: Enforce the flood damage prevention ordinance. Participate in floodplain identification and mapping updates. Provide public assistance/information on floodplain requirements and impacts.	City of Crescent City	Ongoing. City is up to date in its Section 15.32 Floodplain Damage Prevention Ordinance and current FEMA mapping. Flood information is relayed to applicants during application processing	Yes	A minimal area of the City is subject to flooding most is zoned Open Space or Harbor-related. Will consider appropriate approaches in Safety Element update that address some of NFIP's Community Rating System program.	Flooding
CC-5	Identify and pursue strategies to increase adaptive capacity to climate change including but not limited to conducting an analysis of sea level rise adaptation strategies pursuant to AB 619.	Planning	State SLR Guidance document See https://opc.ca.gov/wp-content/uploads/2024/05/California-Sea-Level-Rise-Guidance-2024-508.pdf for specific sea level scenarios for Crescent City	Yes	Adaptation strategies need to be formalized. Other hazards need to be considered including severe weather, fire, flooding	Severe weather, fire, flooding, coastal hazards

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
CC-6	Retrofit wastewater treatment plant membrane bioreactor to accept backup generator for backup power	Public Works	Complete	No	-	-
CC-7	Survey FEMA designated A zone to determine base flood elevation Survey and inventory lowest floor elevations of all existing structures (both private and public facilities) in A and X zones, to identify vulnerable structures to target for mitigation.	Public Works	Not completed, low priority for considering existing development (See FEMA mapping). Will consider more appropriate approaches in Safety Element update that address some of NFIP's Community Rating System program.	No	-	-
CC-8	Conduct coastal bluff stabilization to prevent shoreline retreat and protect public infrastructure.	Public Works	In progress – loss of bluff between 6th & 7th led to an Emergency Opening authorization. Temporary wall constructed in 2025. Permanent wall still in design and permitting.	Yes	No updates required	Severe weather
CC-9	Upgrade and install additional storm drain lines to relieve periodic flooding in downtown Crescent City.	Public Works	In progress – Front Street, B, C, D & F streets have been upgraded. F Street from 3.5-5th street to be constructed 2026. Front street Play to L and K Street from Front to 2nd to be constructed in 2025/6.	Yes	No updates required	Severe weather
CC-10	Warehouse and/or relocate critical vehicles, equipment and repair materials outside of identified hazard areas	Public Works	In progress – most critical equipment out of tsunami zone at corp. yard. Police equipment transferring to mobile units in next 5 years.	Yes	No updates required	Seismic, tsunami, fire, flood, severe weather
CC-11	Develop a post disaster action plan that includes grant funding, debris removal and long-term recovery planning components, addressing both public and private assets	Public Works	Not started City will be updating Section 7 Health and Safety of the General Plan (Safety Element) in 2025 with general funds	Yes	Safety Element update is a State requirement.	Seismic, tsunami, fires, flood, SLR, severe weather

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
CC-12	Establish a continuity-of-operations plan with phased return to normal operations	Planning	Not started. City will be updating Section 7 Health and Safety of the General Plan (Safety Element) in 2025 with general funds	Yes	Safety Element update is a State requirement.	Seismic, tsunami, fires, flood, SLR, severe weather
CC-13	Identify existing structures not up to adopted IBC through aggressive code enforcement	Planning	Completed	No	Covered in CC-15. New police administration building to receive addition. Other facilities not in scope.	Seismic, tsunami, fires, flood, SLR, severe weather
CC-14	Consider participation in the NFIP's Community Rating System program.	Planning	Not started. City will be updating Section 7 Health and Safety of the General Plan (Safety Element) in 2025 with general funds and will review necessary qualifications	Yes	Safety Element update is a State requirement.	Flooding
CC-15	Conduct a structural/nonstructural seismic retrofit of the City Police Department	City of Crescent City	In progress – PS&E at 90% plans. Construction anticipated 2026	No	Police building defined to be "Administrative" and therefore not critical.	Tsunami, seismic.

3.9.2 Changes in Priorities

Since the 2019 HMP, the City has re-evaluated their mitigation priorities. Action item 6, hooking up the MBR to the generator is complete. Several action item 8 bluff stabilization, 9 storm drain upgrades, and 15 City police department seismic retrofit are ongoing due to the long-term nature of the construction project. Planning items 1-5, 7, 11-14 are all ongoing activities to maintain procedures previously established. The city has updated the Housing Element to meet state regulated changes. This has been incorporated into the city ordinances and affects/changes planning decisions. The city's General Plan, Shoreline Management Plan, & Local Coastal Plans all need an update. The city continues to seek Grant opportunities to fund continued planning, design, and construction activities. Implementation of future priorities will likely be driven by available funding.

3.9.3 Additional Mitigation Efforts

In addition to the mitigation actions completed in Table 3-15, Crescent City identified the following mitigation efforts completed since the last HMP:

- The city has replaced and increased the capacity of the storm drainage system on Front Street, C, D and F streets to reduce localized flooding.
- The city repaired the Amador tank roof leaks, installed AWWA/OSHA compliant safety features for tank maintenance, and coated/painted the tank for longer life.

DRAFT

- The city has installed a SCADA water/sewer monitoring system to warn city crew of operation of either system outside of normal parameters.
- The city upgraded the WWTP MBR filters with a mem-pulse filtration system to extend the life, improve capacity, and efficiency. This project helps the city meet water regulations.
- The city has implemented MyGov permit and planning tracking to ensure municipal code and planning requirements are met.
- The city has installed a Genset connection to power the WWTP MBR MCC with the available generator in the event of a power outage
- The city has installed a new generator at the police station and another at the Wonder Stump Road PRV station.
- The city has replaced all three pumps at the Ranney Collector ensuring extended life and higher efficiency for the city's sole source of water.
- The city has adopted an updated Housing Element to coincide with state changes. This impacts municipal code and planning.
- The city has uploaded water, sewer, storm drain, streetlight, sidewalk infrastructure into a cloud-based GIS mapping software. This makes data available on the public works mobile devices which can be updated on site as necessary. This ensures the most reliable data in the event of a natural disaster.
- The city developed a Water System Emergency Response Plan
- All sewer lines and manholes were cleaned and camera inspected for damage. Repairs are ongoing to maintain continuous utility service.
- The WWTP received an upgraded chlorine monitoring station to improve city outfall water regulations to maintain continuous utility service.
- The WWTP overhauled the belt press dewatering equipment to maintain continuous utility service
- The WWTP replaced 4 chemical containment tanks for Sodium Hypochlorite and Citric Acid to maintain continuous utility service.
- The city installed a temporary retaining wall at Pebble Beach (Phase 1) between 7th and 8th streets returning the collector street to service and added a class IV pedestrian/bicycle trail. Phase 2 is a future project to protect Pebble Beach between 9th street and Preston Island known as Pocket Beach.

3.9.4 Hazards Not Included in District Mitigation Strategy

The City of Crescent City did not include actions for extreme heat. Proximity to the ocean and long-standing weather patterns means that the city maintains a relatively cool temperature throughout the year.

DRAFT

3.9.5 Proposed Hazard Mitigation Actions for the HMP Update

Crescent City participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 "Selecting Appropriate Mitigation Measures for Floodprone Structures" (March 2007)
- FEMA "Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards" (January 2013)

The action worksheets included at the end of this annex list the mitigation actions that Crescent City would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in City priorities.

Table 3-16 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Table 3-16. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Drought	-	CC-1, CC-7,	-	-
Earthquake	-	CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC-8, CC-9	-	-
Excessive Rain	CC-10	CC-2, CC-7, CC-9	-	-
Extreme Wind	-	CC-2, CC-7, CC-8, CC-9	-	-
Flood	CC-10	CC-2, CC-4, CC-5, CC-6, CC-7, CC-9	-	-
Landslide	-	CC-2, CC-7, CC-8, CC-9	-	-
Tsunami	CC-10	CC-1, CC-2, CC-4, CC-5, CC-6, CC-7, CC-8, CC-9, CC-10	-	-
Wildfire	-	CC-2, CC-3, CC-9	-	-

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.
Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.
Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 3-17 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

DRAFT

Table 3-17. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Seismic Retrofit	High	High	3	1-5 years	6.2	Medium
Generator Installation	High	High	6	1-5 years	6.5	Medium
Seismic Retrofit - Water Main	High	High	4	1-10 years	5.3	Medium
Ordinance Improvement	High	Medium	4	1-5 years	5.3	Medium
Purchase Mobile Equipment	High	Medium	5	1-5 years	5.4	Medium
Relocation of WWTP	High	Low	4	1-10 years	3.3	Low
Well Retrofitting	Medium	Medium	4	1-5 years	6.3	Medium
Installation of Hydro-Pneumatic Tank	Medium	Medium	5	1-5 years	6.4	Medium
Purchase of Portable Water Equipment	Medium	Medium	4	1-5 years	6.3	Medium
Storm Drain Capacity Assessment	Low	Low	3	1-5 years	6.2	Medium

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

3.9.6 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

CC-1 Seismic Retrofitting

Lead Agency:	City of Crescent City
Supporting Agencies:	N/A
Hazards of Concern:	Drought, Earthquake, Tsunami
Description of the Problem:	In the event of an earthquake or Tsunami, the 1.5MG water tank can shift on its present foundation damaging itself, pump house, and/or piping infrastructure.
Description of the Solution:	Foundation retrofit with seismic restraints, American Water Works Association OSHA upgrades, cathodic protection, rafter rehabilitation, and flexible expansion joint for Amador Tank
Estimated Cost:	High
Potential Funding Sources:	Drinking Water State Revolving Fund
Implementation Timeline:	1-5 years
Objectives Met:	2,4,6
Benefits:	High, available water in event of loss of primary source, available fire flow capacity
Impact on Socially Vulnerable Populations:	This solution improves the resilience of the city infrastructure which benefits everyone including all socially vulnerable populations.
Impact on Future Development:	No planned capacity change for the water tank maintains current trajectory for future development.
Impact on Critical Facilities/Lifelines:	The water tank is a critical water infrastructure facility which will directly have improved resilience to earthquake and tsunami.
Impact on Capabilities:	This project will improve the resilience of the Amador water tank reducing or preventing damage due to earthquake or tsunami.
Climate Change Considerations:	This project does not respond to nor contribute to climate change risks.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Property Protection
Priority	High

DRAFT

CC-2 Generator Installation

Lead Agency:	County of Del Norte
Supporting Agencies:	City of Crescent City
Hazard(s) of Concern:	Earthquake, Excessive Rain, Extreme Wind, Flood, Landslide, Tsunami, Wildfire
Description of the Problem:	Loss of command and/or loss of continuous utility service.
Description of the Solution:	Install a backup generator at the following City locations: City Hall, Housing Authority, Cronk Lift Station, Harbor Lift Station, Harbor Sea Food Lift Station, Infirmary Lift Station, and Tetrapod Lift Station. Additionally, review the Ranney collector generator and replace the chlorination plant generator which is at end of life. Install a backup generator at the following DN County locations: Madison Lift Station, Modoc Lift Station, Oregon Lift Station, Pacific Lift Station, Seawood Lift Station, Small Lift Station, and Tedsen Lift Station.
Estimated Cost:	High
Potential Funding Sources:	State Water Resources Control Board
Implementation Timeline:	1-5 years
Objectives Met:	2,3,4,6,9,10
Benefits:	High, maintain command structure and housing during a natural disaster. Maintain sewer utility service.
Impact on Socially Vulnerable Populations:	This solution improves the resilience of the community's infrastructure which benefits everyone including all socially vulnerable populations.
Impact on Future Development:	No planned capacity change for the sewer infrastructure, maintains current trajectory for future development.
Impact on Critical Facilities/Lifelines:	Improves communication and health through proper handling of sewer materials during a natural disaster.
Impact on Capabilities:	Support the city's ability to respond to and recover from disasters.
Climate Change Considerations:	This project enables the city to maintain communications and operations during excessive weather, flood, landslide, and/or wildfire events. The consumption of petroleum products for the generation of electricity will contribute to greenhouse gases only while used during a natural disaster event.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Property Protection, Public Information, Emergency Services
Priority	High

DRAFT

CC-3 Seismic Retrofit – Water Main

Lead Agency:	City of Crescent City
Supporting Agencies:	N/A
Hazard(s) of Concern:	Earthquake, Wildfire
Description of the Problem:	Water main from 6280 Kings Valley Road to the elevated tank at Wonder Stump Road is 1.5 miles of a 14-inch cast iron pipe which is aged, brittle, and susceptible to damage from internal pressure spikes and external impact loads. There is no alternate flow path for redundancy between these two sites which constitutes the sole conveyance of water to the city. Additionally, the small diameter pipe causes a flow restriction which increases pumping energy and limits fire flow.
Description of the Solution:	Install a 1.5 mile redundant water main from chlorination building to elevated tank preferably along a separate route for redundancy, resilience, and energy savings.
Estimated Cost:	High
Potential Funding Sources:	Drinking Water State Revolving Fund
Implementation Timeline:	1-10 years
Objectives Met:	2,3,6,10
Benefits:	Provide water through redundant water main in the event of catastrophic loss of sole water conveyance from the chlorination building to the city.
Impact on Socially Vulnerable Populations:	This solution improves the resilience of the city's water infrastructure which benefits everyone including all socially vulnerable populations.
Impact on Future Development:	While the city is not currently growth limited by the restricted water flow through the existing 14-in cast iron water main, this is a potential future limiting factor for the city's growth.
Impact on Critical Facilities/Lifelines:	There is a direct impact on the critical supply of water to the city.
Impact on Capabilities:	A redundant water main will mitigate the city's risk of complete water loss in the event of a natural disaster which disrupts the city's water supply.
Climate Change Considerations:	This project does not respond to nor contribute to climate change risks.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Property Protection
Priority	High

DRAFT

CC-4 Ordinance Improvement

Lead Agency:	City of Crescent City
Supporting Agencies:	N/A
Hazard(s) of Concern:	Earthquake, Flood, Tsunami
Description of the Problem:	Wastewater treatment plant (WWTP) fails to meet new state water regulations
Description of the Solution:	Working under a Time Schedule Order R1-2025-0015 the city is working to improve secondary treatment efficiency and remove additional solids in an effort to improve the disinfection process and meet the new permitting requirements.
Estimated Cost:	High
Potential Funding Sources:	State Water Resources Control Board
Implementation Timeline:	1-5 years
Objectives Met:	2,4,6,8
Benefits:	The city presently does not meet state water regulations. This project attempts to bring the city's wastewater back into regulation on a permanent basis.
Impact on Socially Vulnerable Populations:	This solution improves the resilience of the city's water infrastructure which benefits everyone including all socially vulnerable populations.
Impact on Future Development:	This project does not change the capacity of the city to process sewage only the quality of the water discharges in the outfall.
Impact on Critical Facilities/Lifelines:	This project directly affects the health of local residents and manages the hazardous sewage with the least time out of water regulations.
Impact on Capabilities:	This project mitigates the damage caused by insufficiently disinfected water discharges directly into the Pacific Ocean.
Climate Change Considerations:	This project does not respond to climate change risks. Insufficient disinfection of discharged water does not contribute to climate change but is an ecological disaster in its own right.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Property Protection, Natural Resources Protection
Priority	High

DRAFT

CC-5 Purchase Mobile Equipment

Lead Agency:	City of Crescent City
Supporting Agencies:	N/A
Hazard(s) of Concern:	Earthquake, Flood, Tsunami
Description of the Problem:	Loss of wastewater treatment plant due to natural disaster
Description of the Solution:	Develop multiple “mobile” WWTPs to process raw sewage at 1 MGD temporarily until a permanent WWTP can be repaired or relocated. Purchase of mobile generators, mobile headworks screens and pumps, mobile dewatering presses, mobile MBR filtration, Class C solids retention, hauling, disposal, and equipment to reactivate the current chlorine/de-chlorine contact tank. Mobile components would be stored in a secure location out of the tsunami inundation zone.
Estimated Cost:	High
Potential Funding Sources:	State Water Resources Control Board
Implementation Timeline:	1-5 years
Objectives Met:	2,3,4,6,8
Benefits:	While it is understood that immediately following a natural disaster, the city will violate outfall water regulations. This project attempts to bring the city’s wastewater back into regulation on a temporary basis until a permanent repair or relocate solution can be accomplished.
Impact on Socially Vulnerable Populations:	This solution improves the resilience of the city’s water infrastructure which benefits everyone including all socially vulnerable populations.
Impact on Future Development:	This project does not change the capability or capacity of the city to process sewage. There is no cease/desist order preventing future development.
Impact on Critical Facilities/Lifelines:	This project directly affects the health of local residents and manages the hazardous sewage with the least time out of water regulations.
Impact on Capabilities:	This project mitigates the damage caused by loss of raw sewage containment directly into the Pacific ocean.
Climate Change Considerations:	This project does not respond to climate change risks. Loss of raw sewage containment does not contribute to climate change but is an ecological disaster in its own right.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Property Protection, Natural Resource Protection
Priority	High

DRAFT

CC-6 Relocation of WWTP

Lead Agency:	City of Crescent City
Supporting Agencies:	N/A
Hazard(s) of Concern:	Earthquake, Flood, Tsunami
Description of the Problem:	Relocation of WWTP due to natural disaster or regulation change
Description of the Solution:	Purchase land outside of the tsunami zone for the future relocation of the WWTP.
Estimated Cost:	High
Potential Funding Sources:	N/A
Implementation Timeline:	1-10 years
Objectives Met:	1,3,7,8
Benefits:	Purchase of a future building site for the city WWTP will initiate the permitting process and shorten the PS&E phase in the event of a natural disaster.
Impact on Socially Vulnerable Populations:	This solution improves the resilience of the city's water infrastructure which benefits everyone including all socially vulnerable populations.
Impact on Future Development:	This project does not change the capability or capacity of the city to process sewage. There is no cease/desist order preventing future development.
Impact on Critical Facilities/Lifelines:	This project directly affects the health of local residents and manages the hazardous sewage with the least time out of water regulations.
Impact on Capabilities:	This project moves the WWTP away from the tsunami zone and outside of the coastal zone which will reduce the permitting time and cost of construction. It provides an opportunity for technology upgrades which are not presently possible at the current location.
Climate Change Considerations:	This project does not respond to climate change risks. Loss of raw sewage containment does not contribute to climate change but is an ecological disaster in its own right.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Property Protection, Natural Resource Protection
Priority	High

DRAFT

CC-7 Well Retrofitting

Lead Agency:	City of Crescent City
Supporting Agencies:	N/A
Hazard(s) of Concern:	Drought, Earthquake, Excessive Rain, Extreme Wind, Flood, Landslide, Tsunami
Description of the Problem:	The city's sole source of water is the Ranney Collector located at the Smith River. Loss of this source due to contamination, flooding, mechanical or structural failure would leave the city with 3 days of water in accumulation tanks.
Description of the Solution:	Install a redundant water well preferably from a different aquifer and possibly construct a second chlorination building if required. Tie second well into existing water infrastructure.
Estimated Cost:	Medium
Potential Funding Sources:	North Coast Resource Partnership
Implementation Timeline:	1-5 years
Objectives Met:	2,3,4,6
Benefits:	Diversification of water reduces risk from loss of potable water.
Impact on Socially Vulnerable Populations:	This solution improves the resilience of the city's water infrastructure which benefits everyone including all socially vulnerable populations.
Impact on Future Development:	The city is limited by water diversion rights from our present water source; this project does increase the potential capacity of the city's water system.
Impact on Critical Facilities/Lifelines:	This project increases quantity, quality, and resilience of the city's water infrastructure.
Impact on Capabilities:	This project mitigates the risk of water loss in the event of a natural disaster.
Climate Change Considerations:	This project does not respond to nor contribute to climate change risk.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Property Protection
Priority	High

DRAFT

CC-8 Installation of Hydro-Pneumatic Tank

Lead Agency:	City of Crescent City
Supporting Agencies:	N/A
Hazard(s) of Concern:	Earthquake, Extreme Wind, Landslide, Tsunami
Description of the Problem:	A rapid change in pressure in the water main due to power loss or rapid valve operation can cause a pressure spike (water hammer) to damage the brittle cast iron water mains leading to catastrophic pipe rupture and loss of the city's sole source of water.
Description of the Solution:	Installation of a hydro-pneumatic accumulation (surge) tank near the Ranney Collector pumps will absorb the pressure spikes and keep them from propagating down the water main to the nearest "weak link".
Estimated Cost:	Medium
Potential Funding Sources:	Bureau of Reclamation via Elk Valley Rancheria & City Funds
Implementation Timeline:	1-5 years
Objectives Met:	2,3,4,6,8
Benefits:	Isolation and absorption of pressure spikes makes the entire water system more resilient to unexpected changes in water pressure.
Impact on Socially Vulnerable Populations:	The Elk Valley Rancheria has worked directly with the Bureau of Reclamation to secure partial funding for this project to directly benefit tribal members within the city water distribution system.
Impact on Future Development:	This project does not increase the capacity of the city water system, which is not currently a limiting factor in the city's future development.
Impact on Critical Facilities/Lifelines:	This project improves water system resilience.
Impact on Capabilities:	This project protects the city water system against pressure spikes which could cause catastrophic water main breaks.
Climate Change Considerations:	This project does not contribute to climate change risks. The project does respond to extreme weather and wildfire risks which might be caused by climate change.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Property Protection
Priority	High

DRAFT

CC-9 Purchase of Portable Water Equipment

Lead Agency:	City of Crescent City
Supporting Agencies:	N/A
Hazard(s) of Concern:	Earthquake, Excessive Rain, Extreme Wind, Flood, Landslide, Tsunami, Wildfire
Description of the Problem:	Loss of sole source of potable water for city. Remote location prevents importation of bottled water.
Description of the Solution:	Purchase of a portable water filtration, chlorination, and distribution equipment
Estimated Cost:	Medium
Potential Funding Sources:	FEMA Hazard Mitigation Assistance grants
Implementation Timeline:	1-5 years
Objectives Met:	2,3,4,6
Benefits:	Available water during and after a natural disaster.
Impact on Socially Vulnerable Populations:	This solution improves the resilience of the city's water infrastructure which benefits everyone including all socially vulnerable populations.
Impact on Future Development:	This project does not increase the city's water capacity. No impact on future development.
Impact on Critical Facilities/Lifelines:	This project does improve health and water which are critical lifelines.
Impact on Capabilities:	This project enables the city to mitigate, respond tom and recover from disasters due to the loss of water.
Climate Change Considerations:	This project does not respond to nor contribute to climate change risks.
Mitigation Category	Structure and Infrastructure Project
CRS Category	Preventative Measures, Natural Resource Protection
Priority	High

DRAFT

CC-10 Storm Drain Capacity Assessment

Lead Agency:	City of Crescent City
Supporting Agencies:	County of Del Norte
Hazard(s) of Concern:	Excessive Rain, Flood, Tsunami
Description of the Problem:	The city's storm drain system consists of aged infrastructure with potential capacity restrictions resulting in system flooding.
Description of the Solution:	The city will conduct a storm drain capacity study to determine bottlenecks in the system due to known water shed inputs as well as system condition including opportunities increase overall water quality through infrastructure improvements.
Estimated Cost:	Low
Potential Funding Sources:	Community Development Block Grant, City funds
Implementation Timeline:	1-5 years
Objectives Met:	8,9,10
Benefits:	The city will develop a report with specific projects to seek funding for flood risk reduction future projects.
Impact on Socially Vulnerable Populations:	Low lying and flood prone locations in town could be inhabited by children, elderly, poverty, language, disabled, or tribal groups.
Impact on Future Development:	Areas susceptible to flooding often coincide with undeveloped areas of the city. Improved drainage should make these locations available for future development.
Impact on Critical Facilities/Lifelines:	Public safety, preservation of real estate, and transportation to be improved with proper storm drainage.
Impact on Capabilities:	The planning report will be the first action taken towards preventing future localized flooding.
Climate Change Considerations:	The project will generate a report which calculates storm drainage considering climate change effects such as extreme weather and flooding. This project does not contribute to climate change risks.
Mitigation Category	Local Plans and Regulations
CRS Category	Preventative Measures
Priority	High

DRAFT

4. BIG ROCK COMMUNITY SERVICES DISTRICT

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Big Rock Community Services District with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Big Rock Community Services District, describes who participated in the planning process, assesses Big Rock Community Services District's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

4.1 HAZARD MITIGATION PLANNING TEAM

The Big Rock Community Services District identified primary and alternate HMP points of contact and developed this plan over the course of several months. Joe Akin represented the community on the Del Norte County HMP Planning Partnership and Steering Committee and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 4-1 summarizes District officials who participated in the development of the annex and in what capacity. Additional documentation of the District's planning activities through Planning Partnership meetings is included in Volume 1.

Table 4-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Joe "Hank" Akin, Big Rock CSD Board President Address: PO Box 453, Crescent City, CA 95531 Phone Number: (707) 457-3380 Email:	Name/Title: Andy Allen, Manager Address: PO Box 453, Crescent City, CA 95531 Phone Number: (707) 954-5509 Email: manager.brcsd@gmail.com
Additional Contributors	
Name/Title: Renna Nelson, Secretary Method of Participation: Contributed information, reviewed draft sections of the plan.	

4.2 COMMUNITY PROFILE

The Big Rock Community Service District (BRCSD) was formed as a California special district by Resolution of the Del Norte County Board of Supervisors on September 6, 1966, in accordance with California's Special District Act. The district was formed for the following purposes:

- To supply the inhabitants of the District with water for domestic use, irrigation, sanitation, industrial use, fire protection, and recreation.

DRAFT

- The collection, treatment or disposal of sewage, waste and storm water of the District and its inhabitants.
- The collection or disposal of garbage or refuse matter.
- Protection against fire.
- Public recreation by means of parks, playgrounds, swimming pools or recreational buildings.
- Street lighting.
- Mosquito abatement.
- The equipment and maintenance of a police department or other police protection to protect and safeguard life and property.

The BRCSD is governed by a five-member elected Board of Directors/Trustees, which assumes responsibility for the adoption of this plan and will oversee its implementation. The BRCSD provides water service to the unincorporated community of Hiouchi, which is situated within the Six Rivers National Forest and the Smith River National Recreation Area and serves the Redwood National Park Hiouchi Visitor Center on Highway 199.

4.2.1 Service Area and Trends

The BRCSD covers approximately 520 acres with the annexation of the Hiouchi Flat area of Jedediah Smith Redwoods State Park and the boundary correlation for Redwood National Park Hiouchi Information/Visitor Center. The District is surrounded on three sides by the Smith River. The service area, or sphere of influence, is coterminous with the District Boundary.

The BRCSD generally contains rural residential and commercial development, and resource lands including the Jedediah Smith Redwood State Park Campground and the Redwood National Park Hiouchi Visitor Center. The Del Norte County General Plan (2003) and Zoning Code guides land use decisions within the unincorporated portion of Del Norte County including the community of Hiouchi. The District also contains State/Federal park lands.

The BRCSD contains approximately 197 homes and businesses within district boundaries and provides drinkable water to approximately 100 connections and accounts. Other consumers draw water from private wells or use surface water for irrigation. The winter population of the district is approximately 650, while tourism and recreational uses of the public lands can elevate the BRCSD summer population upwards of 2,000.

The District provides adequate services and has the capacity to provide the necessary water services to its customers. The Big Rock CSD is pursuing water system upgrades, including water tank replacements in order to meet long-term service needs within the District. The District has sufficient water treatment capacity available and does not appear, in the current timeframe or in the foreseeable future, to be in short water supply. The District has no plans to significantly increase capacity.

DRAFT

The District provides water service to the community of Hiouchi; a resort community where water demand varies dramatically with the seasons. The Hiouchi Flat area of Jedediah Smith Redwoods State Park and the Redwood National Park's Hiouchi Visitor Center are located within the District.

The bulk of Del Norte County's population exists in unincorporated communities that qualify as disadvantaged including the community of Hiouchi. Big Rock CSD provides one of the three basic services - water service – to areas that are considered disadvantaged. There are no sewer services within District boundaries, residents rely on private septic systems. Structural fire protection services are the responsibility of the Smith River Fire Protection District.

4.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores, hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

In addition to that work, the District partnered with the County to post information about the HMP update in the few public services available in Hiouchi, including the Hiouchi Hamlet, one of two retail locations in the area. Figure 4-1 shows selected outreach efforts and Appendix A includes all outreach efforts.

Figure 4-1. Public Outreach by Big Rock Community Services District



DRAFT

4.3.1 Public Feedback Integration

Of the 196 responses to the public survey, four respondents reported that they received services from the District. These four respondents were extremely or very concerned about excessive rain, extreme wind, and landslides. They reported receiving emergency information through mass notifications, government websites and newsletters, public meetings, and Facebook. They expressed concern about natural hazards closing US Highways 199 and 197, underfunding of public services, and the Madrone Trailer Park residents being at high risk. The mitigation strategy was prioritized with these concerns and community limitations in mind.

4.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. In addition to that work, the District invited stakeholders to participate in the planning process. The following organizations were invited to participate by attending a Steering Committee meeting, responding to the stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan:

4.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Del Norte Local Agency Formation Commission
- California Governor's Office of Emergency Services
- State Water Resources Control Board
- USDA Rural Development

4.4.2 Agencies that Have the Authority to Regulate Development

- Del Norte County Planning Division

4.4.3 Neighboring Communities

- Gasquet Community Services District
- HRC Community Services District
- Klamath Community Services District
- Smith River Community Services District

4.4.4 Representatives of Business, Academia, and Other Private Organizations

- Del Norte Unified School District
- Pacific Power
- Sutter Coast Hospital

DRAFT

4.4.5 Nonprofit Organizations and Community-Based Organizations

- Hiouchi Community Fellowship Church
- Neighbors Helping Neighbors

4.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Big Rock Community Services District performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Big Rock Community Service District to identify opportunities for integrating mitigation concepts into ongoing District procedures.

4.5.1 Planning and Regulatory Capability and Integration

As a special district in Del Norte County, the District follow County ordinances, codes, and regulations. Table 4-2 summarizes the planning and regulatory tools specific to Big Rock CSD.

4.5.2 Building Codes, Land Use, and Development

Big Rock Community Services District is a special district located in unincorporated Del Norte County. The District is subject to the Del Norte County and State of California building codes and land use regulations. The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, building code, land use, and development capabilities are not applicable to the District.

4.5.3 Administrative and Technical Capability

Table 4-3 summarizes potential staff and personnel resources available to Big Rock Community Services District and their current responsibilities that contribute to hazard mitigation.

DRAFT

Table 4-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Code/Ordinance/ Resolution	Yes	Enabling Legislation: September 6, 1966; Community Service District Law, CA Government Code 61000	County	Del Norte County Board of Supervisors
Resolution allows special district to be formed to supply potable water to district residents and street lighting services.				
Planning Documents				
Municipal Service Review	Yes	Big Rock Community Services District Municipal Service Review and Sphere of Influence Update, November 2015	District	Big Rock Community Services District
This Municipal Service Review and Sphere of Influence Update provides information about the services and boundaries of the Big Rock Community Services District. The report is for use by the Del Norte Local Agency Formation Commission (LAFCo) in conducting a statutorily required review and update process. This report provides LAFCo with a tool to study current and future public service conditions comprehensively and to evaluate organizational options for accommodating growth, preventing urban sprawl, and ensuring that critical services are provided efficiently. The report references the HMP when discussing the District's infrastructure at risk of seismic activity.				

Table 4-3. Administrative and Technical Capabilities

Resources	Available?	Comment
ADMINISTRATIVE CAPABILITY		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	N/A
Mutual aid agreements	No	N/A
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	N/A
TECHNICAL/STAFFING CAPABILITY		
Planners or engineers with knowledge of land development and land management practices	No	N/A
Engineers or professionals trained in building or infrastructure construction practices	No	N/A
Planners or engineers with an understanding of natural hazards	No	N/A
Staff with expertise or training in benefit/cost analysis	No	N/A
Professionals trained in conducting damage assessments	No	N/A
Personnel skilled or trained in GIS and/or Hazus applications	No	N/A
Staff that work with socially vulnerable populations or underserved communities	No	N/A
Environmental scientists familiar with natural hazards	No	N/A
Surveyors	No	N/A
Emergency manager	No	N/A
Grant writers	No	N/A
Resilience Officer	No	N/A
Other (this could include stormwater engineer, environmental specialist, etc.)	No	N/A

DRAFT

4.5.4 Fiscal Capability

Table 4-4 summarizes financial resources available to Big Rock Community Services District.

Table 4-4. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	No
Capital improvement project funding	Eligible
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Eligible
Open Space Acquisition funding programs	No
Clean Water Act 319 Grants [Nonpoint Source Pollution]	Eligible

4.5.5 Education and Outreach Capability

Table 4-5 summarizes the education and outreach resources available to Big Rock Community Services District.

Table 4-5. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	No	N/A
Personnel skilled or trained in website development	No	N/A
Hazard mitigation information available on your website	No	N/A
Social media for hazard mitigation education and outreach	Yes	Neighbors Helping Neighbors
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Neighbors Helping Neighbors / BRCSD
Warning systems for hazard events	No	N/A
Natural disaster/safety programs in place for schools	No	N/A
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	N/A
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	Yes	Neighbors Helping Neighbors, completely voluntary operation to bring attention to self-rescue, preparedness, and planning.

DRAFT

4.5.6 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 4-6 summarizes the adaptive capacity for each identified hazard of concern and the District's capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction has effective response capabilities, plans or policies that exceed minimum requirements, and deployable resources, all of which decrease vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

Table 4-6. Adaptive Capacity

Hazard	Adaptive Capacity
Drought	Weak
Extreme Heat	Moderate
Extreme Wind	Moderate
Excessive Rain	Strong
Earthquake	Weak
Flood	Moderate
Landslide	Moderate
Tsunami	Strong
Wildfire	Weak

4.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Big Rock Community Services District is a special district for unincorporated Del Norte County. The District does not participate in the NFIP directly. Structures in the District were included in the Del Norte County assessment of NFIP repetitive loss structures. This information can be found in Section 2.6.

4.7 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume 1 provide detailed information regarding vulnerability to the identified hazards, including summaries of Big Rock Community Services District's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

DRAFT

4.7.1 Hazard Area

Hazard area maps provided below illustrate the probable hazard areas impacted within the District are shown in Figure 4-2 and Figure 4-3. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Big Rock Community Services District has significant exposure.

4.7.2 Hazard Event History

The history of natural and non-natural hazard events in Del Norte County is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 4-7 provides details on loss and damage in Big Rock Community Services District during hazard events since the last hazard mitigation plan update.

4.7.3 Hazard Ranking

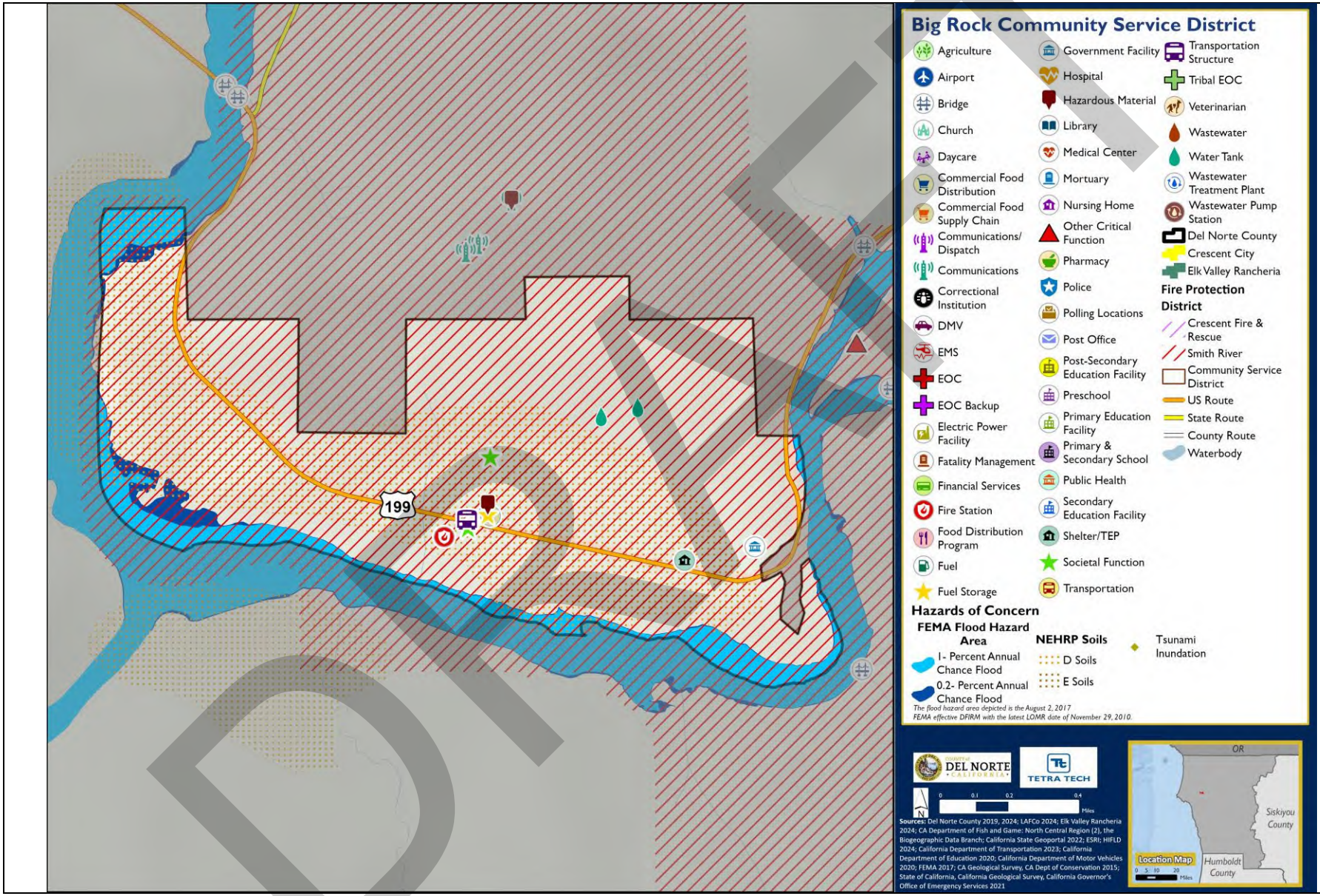
The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for Big Rock Community Services District.

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. Big Rock Community Services District reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community.

Table 4-8 shows Big Rock Community Services District's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

DRAFT

Figure 4-2. Big Rock Community Services District Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location



DRAFT

Figure 4-3. Big Rock Community Services District Wildfire and Landslide Hazard Area Extent and Location

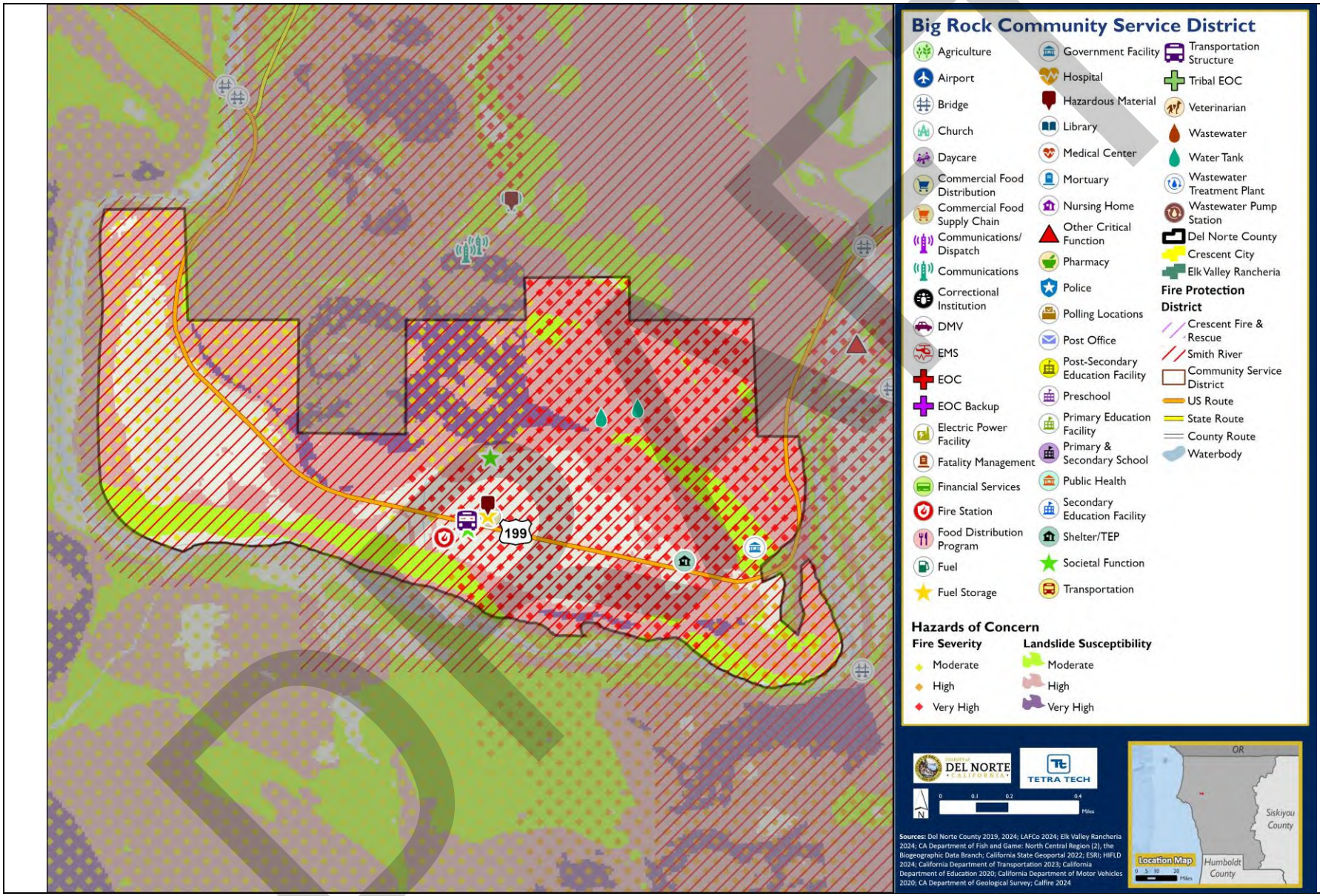


Table 4-7. Hazard Event History in Big Rock Community Services District

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Big Rock Community Services District
February 24 to March 1, 2019	Severe Storm DR-4434-CA	Yes, Federal	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	None
January 20, 2020 to May 11, 2023	Pandemic (COVID-19) DR-4482-CA EM-3428-CA	Yes, Federal	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023.	None
September 4 to November 17, 2020	Wildfire DR-4569-CA CA20-3	Yes, State and Federal	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	None
December 27, 2022 to January 31, 2023	Flood DR-4683-CA CA23-1	Yes, State and Federal	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	None
February 21 to July 10, 2023	Severe Storm, Flood DR-4699-CA EM-3592-CA CA23-3	Yes, State and Federal	Severe storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199.	None
August 15, 2023	Wildfire CA23-5	Yes, State	Dry thunderstorms produced lightning strikes across the Six Rivers National Forest. 27 fires developed in the Gasquet Ranger District and grew rapidly, jumping Highway 199 causing a 3-week closure and resulting in the evacuation of the Town of Gasquet. The fire destroyed high-tension powerlines powering all of Del Norte County. The County was without power through August 25 when generators were installed. Main transmission lines were not repaired until September 10. The fire burned into October with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	Power was out for entire County for one week. Neighboring Gasquet was evacuated and Hiouchi is the nearest town. Road to Gasquet was closed. There was no evacuation in Hiouchi, but residents were advised to prepare for an evacuation.

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

DRAFT

Table 4-8. Hazard Ranking

Hazard	Rank
Drought	Low
Extreme Heat	Medium
Extreme Wind	High
Excessive Rain	High
Earthquake	Medium
Flood	Low
Landslide	High
Tsunami	Low
Wildfire	Low

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

4.7.4 Identified Issues

After review of Big Rock Community Services District's hazard event history, hazard rankings, hazard location, and current capabilities, Big Rock Community Services District identified the following vulnerabilities within the community:

- Flood
  - The unincorporated town of Hiouchi was built along the banks of the Smith River and many homes are located in the one percent annual chance floodplain.
  - The District collects water from the Smith River. In the event of a major flood, water infrastructure could be damaged or inaccessible.
- Landslide
  - Most of the District is located on NEHRP soil class D and located in the landslide hazard area.
  - Rain is one of the hazards cited by residents as most concerning. Excessive rain can contribute to landslide risk.
  - Hiouchi is adjacent to the Jedidiah Smith Redwoods State Park and the town is covered in redwood trees. A landslide in this area has the potential to bring down trees that are hundreds of feet tall.
- Wildfire
  - Most of the District is located in a wildfire severity zone.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

DRAFT

4.8 CONDITIONS THAT MAY IMPACT RISK

4.8.1 Population Pattern Trends

The Big Rock CSD has a permanent resident population of approximately 650. The District will likely continue to develop at or less than the current county-wide rates of 0.4 percent per year, putting the District population at approximately 690 in 2030. Some District residents currently draw potable water from private wells or use surface water for irrigation.

The District's water system has sufficient capacity to serve the Hiouchi Flat area of the Jedediah Smith Redwoods State Park and is currently serving the Redwood National Park's Hiouchi Visitor Center. The Big Rock CSD is pursuing water system upgrades, including water tank replacements in order to meet long-term service needs within the District. The District currently provides adequate water service to its existing connections. Aside from facilitating the Redwood National Park's redevelopment plan with an offer to supply drinking water, municipal water system growth potential in Hiouchi might be limited to modernization and improved reliability, rather than geographic expansion. The Township of Hiouchi is bounded on all sides by parks, a Conservations Easement, and the Smith River.

4.8.2 Changes in Land Use and Development

Big Rock CSD generally contains rural residential and limited commercial development, and resource lands including the Jedediah Smith Redwood State Park Campground and the Redwood National Park Hiouchi Visitor Center. The Del Norte County General Plan (2003) and Zoning Code guides land use decisions within the unincorporated portion of Del Norte County including the community of Hiouchi. Little change in actual or designated land uses within the District is anticipated over the next 20 years.

4.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

4.9.1 Past Mitigation Action Status

The District did not participate in the 2019 Del Norte County Hazard Mitigation Plan and does not have mitigation actions to update.

4.9.2 Changes in Priorities

The District did not participate in the 2019 Del Norte County Hazard Mitigation Plan and does not have any changes in priorities.

DRAFT

4.9.3 Hazards Not Included in District Mitigation Strategy

The Big Rock Community Services District is a very small water utility district and does not have the capacity to design an all-hazards mitigation program. The District chose ten targeted projects that will enhance the overall resilience of their water infrastructure to their hazards of greatest concern.

The District did not include actions for extreme heat, or tsunami. Extreme heat does not occur in the Hiouchi area in temperatures that would impact the water operations and the District's infrastructure is located outside of the tsunami hazard area.

4.9.4 Proposed Hazard Mitigation Actions for the HMP Update

Big Rock Community Services District participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 "Selecting Appropriate Mitigation Measures for Floodprone Structures" (March 2007)
- FEMA "Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards" (January 2013)

The action worksheets included at the end of this annex list the mitigation actions that Big Rock Community Services District would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in District priorities.

Table 4-9 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 4-10 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

4.9.5 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

Table 4-9. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Drought	BRCSD-7	BRCSD-1, BRCSD-3	-	BRCSD-8
Earthquake	BRCSD-7	BRCSD-1, BRCSD-2, BRCSD-3, BRCSD-4, BRCSD-5, BRCSD-6, BRCSD-9, BRCSD-10	-	BRCSD-8
Excessive Rain	BRCSD-7	BRCSD-2, BRCSD-4, BRCSD-5, BRCSD-6, BRCSD-10	-	BRCSD-8
Extreme Wind	BRCSD-7	BRCSD-1, BRCSD-2, BRCSD-3, BRCSD-4, BRCSD-5, BRCSD-6, BRCSD-9, BRCSD-10	-	BRCSD-8
Flood	BRCSD-7	BRCSD-2, BRCSD-4, BRCSD-5, BRCSD-9, BRCSD-10	-	BRCSD-8
Landslide	BRCSD-7	BRCSD-1, BRCSD-2, BRCSD-3, BRCSD-4, BRCSD-5, BRCSD-9, BRCSD-10	-	BRCSD-8
Wildfire	BRCSD-7	BRCSD-1, BRCSD-2, BRCSD-3, BRCSD-4, BRCSD-5, BRCSD-9, BRCSD-10	-	BRCSD-8

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.

Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.

Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Table 4-10. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Catastrophic Disaster Plan	Low	Medium	2	1-5 years	7.4	High
Emergency Shelter	Medium	High	2	1-5 years	7.4	High
Replace 50,000-gallon Redwood water tank	High	High	4	1-5 years	6.8	Medium
Emergency Communications	Medium	Medium	3	1-5 years	6.6	Medium
Replace Redwood Storage Tanks with Steel Tanks	High	High	4	1-10 years	5.8	Medium
Retrofit Facilities	High	High	4	1-10 years	5.8	Medium
Upgrade the existing SCADA System	High	Medium	1	1-5 years	5.2	Medium
Public Education and Mitigation Awareness	Medium	Low	1	1-5 years	5.2	Medium
Replace Water Mains	High	Medium	3	1-10 years	4.6	Low
Improve Road access to the District's Assets	High	Low	2	1-5 years	4.4	Low

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

DRAFT

BRCSD-1 Replace Redwood Storage Tanks with Steel Tanks

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☒ Drought ☒ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☒ Extreme Wind	☐ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	Vulnerable redwood storage tanks in heavily wooded areas and no seismic protection. The District's 100,000-gallon water storage tank is located on a steep hillside with grades of 35% near the toe of the hill north of town and between 50% to 70% at and above the water tank. The tank was constructed in 1971 in accordance with California Building Code that did not specify mandatory requirements at the time. Construction of the tank, foundation and pad was completed prior to the 1975 lateral force requirement additions and the amendment of the Uniform Building Code in 1994 that included seismic safety provisions. In addition to the reduced code standards that defined the tank installation project in 1971, the tank site itself now presents a serious hazard to the community. The mountainside upon which the tank is constructed is quite steep and unstable. To place the tank on level ground, it was constructed on a built-up fill prism. GHD | Hiouchi Local Hazard Mitigation Plan | 11136755-04 | Page 84 The prism sits on top of approximately ten (10) to fifteen (15) feet of loosely consolidated material, which is underlain by ultramafic rock. Significant water seeps from the hillside above the tank are eroding the soils around the tank foundation to the extent that the fill prism would break loose from its rock base and slide down the hillside in a magnitude M5.5 earthquake-generated landslide, carrying with it the entire facility that includes the storage tank, pump house, generator and propane fuel field, antenna tower, cyclone fencing, and pipeline infrastructure. This area often experiences severe storms that can bring 18 inches of rain over three days contributing to extensive erosion and accelerated deterioration of the tank pad's stability. Increased storage tank volume is needed based on an engineering evaluations of the water system that demonstrated the need for additional storage to support fire protection and emergency supplies should the District's intake system fail (GHD, 2016). In addition, the District annexed the Jedediah Smith Redwoods State Park and Redwood National Park into its jurisdiction in 2010. The two parks are currently merging their resources into one entity via a major redevelopment project that will attract another 20,000 visitors every year to Hiouchi. They have asked the District for a permanent water connection, which will require more than 2 million gallons of water per year plus increased water storage capability. A fire hydrant will be installed to mitigate the threat of fire inside the consolidated park system. The current Hillside Stabilization Plan (HSP) accommodates these requests.	
Description of the Solution:	Replace the 100,000-gallon Redwood water storage tank with a bolted steel tank mounted on a granite shelf and increase its working capacity to 200,000 gallons in order to accommodate new water service obligations. Upgrade the existing SCADA (Supervisory Control And Data Acquisition) system. Retain the existing on-site 30 kW generator and propane fuel field. Concurrently stabilize a section of Hiouchi Mountain that is threatened by catastrophic seismic activity and add an emergency communications capability. Improve vehicle access to the site. Acquire ownership of 6.83 acres to secure all hillside facilities and the access point against terrorism/vandalism.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs; Department of Water Resources and State Water Resources Control Board grants	

DRAFT

Implementation Timeline:	5+ years	
Objectives Met:	1,2,4,5	
Benefits:	This mitigation action will result in a project (HSP) to install a 200,000-gallon replacement water storage tank on a new pedestal that is tied to bedrock, protected by a retaining wall, and constructed to modern seismic standards. The HSP will mitigate the risk that the tank, supporting pedestal, associated pipeline and valve infrastructure, and hillside mixed with trees and granite rocks will slide off of Hiouchi Mountain causing extensive damage to a populated neighborhood and potential loss of life.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	Added capacity will allow for future developments in smith river	
Impact on Critical Facilities/Lifelines:	Existing tanks are anywhere from 30-50 years old and at the end of their lifecycle. 100,000 gallon tank is leaking.	
Impact on Capabilities:	If tanks receive damage we will not be able to supply water to the community	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority		

DRAFT

BRCSD-2 Emergency Communications

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire

DRAFT

Description of the Problem:	The first problem is that reliable SCADA system operations on an around-the-clock basis are dependent upon uninterrupted, line-of-sight microwave communication between the Big Rock CSD's main pump house on the north bank of the Smith River and both water storage tank facilities located on the south side of Hiouchi Mountain. These critical communication nodes are about 0.7 mile distant from each other. Tall forest trees growing even taller in-between those locations are beginning to interrupt the microwave connection, thereby causing an average loss of 120,000 gallons of potable water per month due to tank fill signals not reaching the pumping facility. Environmental constraints make it impossible for the District to remove the problematic trees or connect the sites with electrical lines. This steadily worsening situation is unacceptable to the residents of Hiouchi, the Special District, and the State Water Resources Control Board (SWRCB) that regulates the BRCSD's municipal water system via a permanent license. The proposed 70-foot antenna tower is the sole and best solution at this juncture, for it would remain effective for decades to come. The second issue is that tall mountains surround the somewhat isolated Hiouchi Planning Area thereby narrowing the range of disaster mitigation possibilities for some hazards. During hazard events anywhere, effective communications typically prove to be indispensable for efficient and effective emergency responses, resource management, and positive outcomes. Certain potential hazards would render the existing communications systems between Hiouchi and the Crescent City area ineffective, especially during and after a Cascadia Event that most likely would neutralize all communications nodes inside the Pacific Coastal Zone. Exclusive reliance upon OASIS for disaster relief would be unwise in the context of worst-cast planning. A catastrophic disaster event in Del Norte County, for instance, could neutralize the fixed OASIS terminal at the Emergency Operations Center in Crescent City. The Planning Team and the BRCSD's Board of Directors/Trustees agreed that a reliable backup emergency communications option via the Camp 6 repeater and a backup relationship with the Josephine County Emergency Center (JCEC) to the east of Del Norte County would be a sensible plan of action. If U.S. Highways 101 and 199 are impassible as the result of bridge and/or Last Chance Grade failures, OASIS Transportable Units could not be utilized in Del Norte County unless they were delivered by Army National Guard CH-47 helicopter. Landline communications systems can be swamped by excessive customer use during serious emergencies, lost altogether due to power failures, and interrupted for long periods when telephone poles and lines fail. The Hiouchi Planning Area experienced nearly all of those predicaments over the past few years. Even during a moderate earthquake, serious hazard vulnerability can stem from electricity loss and communications breakdowns. Continuity in governance relies heavily upon dependable communications capabilities, which is a FEMA teaching point for public officials during workshops and seminars. Last, Del Norte County's Tactical Interoperable Communications Plan is dependent upon either line-of-sight radio communications from transmitter station to receiver station or a repeater antenna placed high above the transmitter and receiver stations that are attempting to communicate with each other. Del Norte County's repeater array located on Red Mountain currently serves as the region's hub for first-responder communications. All repeaters at that location must be removed by 2019. FEMA (Cal OES) is reportedly considering only one alternative at this juncture, which is Rogers Peak in Humboldt County just east of Big Lagoon at 2,779 feet. Search and Rescue (SAR) topography radio frequency engineering software indicates that, absent line-of-sight capability, the communities of Gasquet, Hiouchi, and Smith River would not be able to communicate with any type of repeater placed on Rogers Peak. A satisfactory alternative to Red Mountain's repeaters therefore does not yet exist. However, placement of the proposed 70-foot antenna tower on Hiouchi Mountain would indeed facilitate connection with an existing and fully operational Del Norte Amateur Radio Club (DNARC) repeater located at Camp 6 above Gasquet. (The site is owned by the State of California and managed by the California Highway Patrol.) The JCEC that coordinates all SAR activities in southern Oregon is able to communicate through Camp 6, thereby giving the Hiouchi Planning Area the option of utilizing a highly effective SAR network when needed and an extensive HAM communications network that would expand Hiouchi's emergency reach throughout the western United States and provide the District with options to communicate

DRAFT

	directly with California's Northern Operations Center in Redding and also California's Office of Emergency Services Warning Center at Mather in a worst-case scenario. The stand-alone antenna tower can endure significant seismic and wind forces; support transmissions and reception from antenna arrays mounted at the top of the tower well above surrounding treetops; offer a range of communications capabilities via HF, VHF, and UHF amateur and "first-responder" frequency bands; integrate a repeater system that links with a repeater at Camp 6; and operate off of the conventional power grid via a 30 kW electrical generator system (see BRCSD 1) equipped with an ample propane fuel supply.	
Description of the Solution:	Install a complete emergency communications system along with a 70-ft antenna tower for emergency HF/VHF/UHF and Simplex communications. The tower will feature a microwave antenna to perform SCADA operations. This initiative is included in the Big Rock CSD's Catastrophic Disaster Plan, which applies to any event that could isolate the Township of Hiouchi from electrical power, deny use of the adjoining U.S. Highway, and cause loss of access to the Camp 6 Repeater situated on the mountainside above the Township of Gasquet. A 45 kw generator fueled by a large propane tank would enable 100 watts of radio transmission capability and also power the entire building, which is presently designated as an Incident Command Post during most significant emergencies. The District plans to man the radio station via its own human resources.	
Estimated Cost:	Medium	
Potential Funding Sources:	Local budgets; FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	This state-of-the-art emergency communications system featuring extensive amateur (HAM) radio capabilities would link Hiouchi directly to the Josephine County Emergency Center in Merlin, Oregon, Del Norte County's Emergency Operations Center in Crescent City, the Northern Operations Center in Redding, and FEMA's (Cal OES) command center at Mather, California. Del Norte County's Search and Rescue Team would enjoy access to the BRCSD's communications system, thereby providing the Team with enhanced operational capabilities in remote mountainous areas of this county. HAM radios have been used since the early 1900s to support civilian and military emergency operations.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the emergency communications in the service area for Big Rock CSD.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

BRCSD-3: Replace 50,000-gallon Redwood water tank

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☒ Drought ☒ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☒ Extreme Wind	☐ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The District's engineering evaluation of the water system showed the need for approximately 350,000 gallons of storage to support daily variations in demand, fire protection, and emergency supplies should the District's intake system fail. (GHD, 2016).	
Description of the Solution:	Replace the 50,000-gallon Redwood water tank with a bolted steel tank mounted on ultramafic granite and increase total capacity to 100,000 gallons. Secure against threats of vandalism/terrorism.	
Estimated Cost:	High	
Potential Funding Sources:	State Water Resources Control Board or Department of Water Resources grant; or FEMA Hazard Mitigation Grant Program	
Implementation Timeline:	Next 5 years	
Objectives Met:	1,2,4,5	
Benefits:	Improves the District's ability to provide water for fighting fires and increases supplies for emergency conditions that shut down the District's source water production.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency of the water supply/system in the Big Rock CSD service area for permanent and seasonal residents.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

BRCSD-4: Improve Road access to the District's Assets

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The BRCSD owns and manages several remote facilities that are critical to the safe and healthy operations of the District. They require daily attention.	
Description of the Solution:	Improve road access to the District's assets and emplace flood and erosion barriers.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	Next 5 years	
Objectives Met:	2,4	
Benefits:	Prevent existing road and trail thoroughfares from hindering rapid responses during disasters. Road improvements and installation of flood/erosion barriers would mitigate damage caused by winter water runoff. Facilitate access during wet winter conditions. Enable security measures to be applied along asset access routes in accordance with U.S. Department of Homeland Security Guidelines for public water systems in rural areas.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	Supports accessibility of emergency personnel and residents during emergencies.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Low	

DRAFT

BRCSD-5: Upgrade the existing SCADA System

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County,	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The existing SCADA system does not provide the functionality needed to control the system from remote locations, which can place the community at risk from health and safety standpoints especially when the BRCSD's managers are not able to access the mountainside during inclement weather. During the winter of 2016/2017, for instance, Hiouchi experienced 150 inches of precipitation that caused extensive persistent erosion of unpaved surfaces leading to limited access to water storage tanks, pumps, and emergency generator assets controlled by the aged and design-limited SCADA system. In addition, problems are mounting as the SCADA system continues to degrade. A remote control capability, design improvements, modern performance sensors that link to a secure website, and fault reporting nodes should be added and/or modernized to prevent water loss, improve system efficiencies, increase water system management effectiveness, and ensure system security.	
Description of the Solution:	Upgrade the existing SCADA system.	
Estimated Cost:	High	
Potential Funding Sources:	State Water Resources Control Board Grant or HMGP	
Implementation Timeline:	Next 5 years	
Objectives Met:	2	
Benefits:	Improves the partially degraded system's abilities to manage and secure water storage and distribution assets.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

BRCSD-6: Replace Water Mains

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☐ Flood ☐ Landslide ☐ Tsunami ☐ Wildfire
Description of the Problem:	Pipelines subjected to significant displacement can develop leaks or breaks. These may be caused by ground deformation, friction wear by sharp rocks, or by strong ground shaking (CalOES, 2013). The District's AC (asbestos-concrete) water mains are over 47 years old and reaching the end of their useful life, estimated at 50 years. Older pipes and those constructed with inferior technologies are more vulnerable to breaks and leaks due to minor earthquakes and severe weather events, potentially leaving portions of the community without potable water. Typical mitigation measures to counter this vulnerability include (a) assessing siting requirements and installing flexible couplings during the pipeline replacement process, (b) replacing thrust blocks on pipeline junctions that have greater than 45-degree offsets, and (c) substitution of entire pipeline sections with newer and stronger pipes. The District needs to replace approximately 2.8 miles of pipe, along with the associated valves, corporation boxes, and pressure reducers. The potential benefits of earthquake-proof water pipelines, such as those used in Japan for the past 40 years, more recently have been proposed for installation in San Francisco (SHMP,2013). The challenges associated with providing drinkable water in the aftermath of a Cascadia Earthquake Event argues in favor of a similar mitigation strategy for Hiouchi.	
Description of the Solution:	Replace all aged water mains, including resilient features, to reduce damage during hazard event.	
Estimated Cost:	High	
Potential Funding Sources:	Grants State Water Resources Control Board or HMGP	
Implementation Timeline:	1-10 years	
Objectives Met:	1,2,4	
Benefits:	Avoid loss of water service.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Low	

DRAFT

BRCSD-7: Catastrophic Disaster Plan

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☒ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	A Catastrophic Disaster Plan is required to anticipate and manage hazards as they develop. The BRCSD's NHN Program initiative will be exercised as previously discussed to maintain community interest in emergency preparedness, provide adequate training, develop localized experience levels, provide an opportunity for feedback on hazard mitigation planning, and enable the community to perfect its emergency management procedures pursuant to hazard mitigation. Disaster recovery processes will be emphasized.	
Description of the Solution:	Develop a Big Rock CSD Catastrophic Disaster Plan addressing prevention, protection, response, recovery, and mitigations. The BRCSD intends to collaborate with the County's Emergency Services Team to incorporate the County's planning considerations into the District's plan	
Estimated Cost:	Low	
Potential Funding Sources:	District Funds	
Implementation Timeline:	1-5 years	
Objectives Met:	2,5	
Benefits:	Inspired community involvement would enhance the survival of all residents within the District's sphere of influence.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	High	

DRAFT

BRCSD-8: Public Education and Mitigation Awareness

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☒ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	Mitigation for disasters prior to their occurrence and preparedness are key to survival under exigent conditions, especially in a violent situation such as the Cascadia Earthquake Event that threatens to isolate the community of Hiouchi if the surrounding bridges collapse. An earthquake of that magnitude can destroy homes, injure residents and cause sickness, food becomes scarce, and criminal activity develops. Assistance from afar would bring the necessary relief by helicopter, such as survival essentials, medications, evacuation as a matter of last resort, etc. Neighborhoods must be able to deal with such exigencies and work together for the benefit of all. Panic can be minimized when a community is prepared, strong leadership is present, and neighborhood support teams are well organized and trained. Additional education on actions community members can take to protect themselves and their property during a hazard event is needed. All of the District's Neighborhood Leaders need to be educated, trained and equipped to provide mitigation ideas to lessen the effects of hazards as well as how to effectively deal with each hazard listed in this HMP.	
Description of the Solution:	The District intends to collaborate with the County's Emergency Services Team to improve the public's understanding of home-based mitigation actions. The NHN Program will be used to provide resources to homeowners on mitigation opportunities and to solicit feedback on the HMP through neighborhood leaders which will provide neighborhood feedback to the Big Rock CSD Board on plan implementation.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA HMGP grants, District Funds	
Implementation Timeline:	1-5 Years	
Objectives Met:	3	
Benefits:	Heightened community understanding of disaster mitigation options and preparedness resources to reduce the impacts of natural disasters.	
Impact on Socially Vulnerable Populations:	This action will promote community awareness of natural hazards, including for vulnerable populations.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☒ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

BRCSD-9: Retrofit Facilities

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The District's water tank, water lines, and other infrastructure are not mitigated against earthquakes and are located in areas at risk from landslides and wildfires.	
Description of the Solution:	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard areas, including but not limited to vulnerable pipe and other water treatment/delivery infrastructure. Secure foundations, install additional hydrants.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-10 years	
Objectives Met:	1,2,4,5	
Benefits:	Increase the resiliency of critical facilities within the Big Rock CSD service area to identified hazards.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency of facilities in the Big Rock CSD service area for permanent and seasonal residents.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

BRCSD-10: Emergency Shelter

Lead Agency:	Big Rock CSD	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The District lacks adequate shelter for permanent and/or seasonal residents in the event of severe disasters including but not limited to earthquake, extreme heat, landslide excessive rain/wind, or wildfire.	
Description of the Solution:	Identify adequate facilities and equip with backup power and supplies to support sheltering of likely impacted populations for hazards of high/medium concern.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	2,5	
Benefits:	District would have full control of the water system and the ability to control water resources when access to sites is blocked.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the water supply in the area.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	High	

DRAFT

5. CRESCENT FIRE PROTECTION DISTRICT

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in Crescent Fire Protection District with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Crescent Fire Protection District, describes who participated in the planning process, assesses the District's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

5.1 HAZARD MITIGATION PLANNING TEAM

The Crescent Fire Protection District identified primary and alternate HMP points of contact and developed this plan over the course of several months. Chief Kevin Carey represented the community on the Del Norte County HMP Planning Partnership and Steering Committee and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 5-1 summarizes District staff who participated in the development of the annex and in what capacity. Additional documentation of the District's planning activities through Planning Partnership meetings is included in Volume 1.

Table 5-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Kevin Carey, Fire Chief Address: 255 W. Washington Blvd. Crescent City, Calif. 95531 Phone Number: Email:	Name/Title: James Weiland, Battalion Chief Address: 255 W. Washington Blvd. Crescent City, Calif. 95531 Phone Number: Email:
Additional Contributors	
Name/Title: Vanessa Duncan, Administrative Specialist Method of Participation: Administrative Support	

5.2 COMMUNITY PROFILE

The Crescent Fire Protection District (District) is the largest fire district in Del Norte County, serving directly or through automatic aid agreements 84 percent of the County's population base. The District is located on the extremely remote and rugged Northern California coastline just south of the California-Oregon border. The District surrounds the City of Crescent City on the North, East, and South borders of the City. State Highway 101 passes through the District North and South, from milepost 30.8 to milepost 18.0, respectively. Approximately three miles of State Route 199 lies within the North-East

DRAFT

corner of the District. Both highways are vital transportation routes serving the Crescent City area, all communities within Del Norte County, and additional communities north and south.

The District consists of one paid Fire Chief, one part-time Deputy Chief-Training Officer, one administrative assistant, and an all-volunteer fire suppression staff. The District participates in functional consolidation and complete auto-aid with the City of Crescent City under the organizational name of Crescent City Fire and Rescue. Automatic aid is provided by agreement to Hiouchi and Klamath Fire Departments for all full response incidents (fire, rescue, extrication), and automatic aid move up coverage at the jurisdiction boundaries for Smith River and Fort Dick Fire Departments. Crescent City Fire and Rescue participates in mutual aid by agreement with all fire agencies in Del Norte County. Crescent City Fire and Rescue responds to approximately 1,500 calls for service annually.

The District operates three fire stations within the fire protection district boundaries. The main station is located at 255 W. Washington Blvd, and houses response apparatus and the administrative offices. Additional stations are located at 550 E. Cooper Avenue and at 175 Humboldt Road, and house response apparatus. The City of Crescent City owns the fire station at 520 I Street, with that station used by Crescent City Fire and Rescue and housing response apparatus. Crescent City Fire and Rescue also provides personnel as needed at the fire station located at the Del Norte County Airport to augment crash rescue response services required for commercial flight service. Due to the rural nature of many areas of the District, adequate fire hydrant coverage is limited in many areas. This requires long fire flow supply line stretches and heavy reliance on water tenders to provide water to the fire scene.

The Crescent Fire Protection District Board is governed by a five-member Board of Directors, elected by the voters. The District was formed in 1949 and relies on property tax and two voter approved assessments for operational funding. The Board assumes responsibility for the adoption of this plan; Crescent City Fire and Rescue will oversee its implementation.

The District participates in the Public Protection Class Rating System and currently has a rating of 4 and 8 in non-hydrant areas.

5.2.1 Service Area and Trends

The district serves a population of approximately 13,000. Its service area covers an area of 16,621 acres (26 square miles) and it provides the following services: fire suppression, rescue/extrication, hazardous material response, emergency medical services (first responder/basic life support), building plan review, construction inspections, and safety inspections.

5.3 PUBLIC ENGAGEMENT

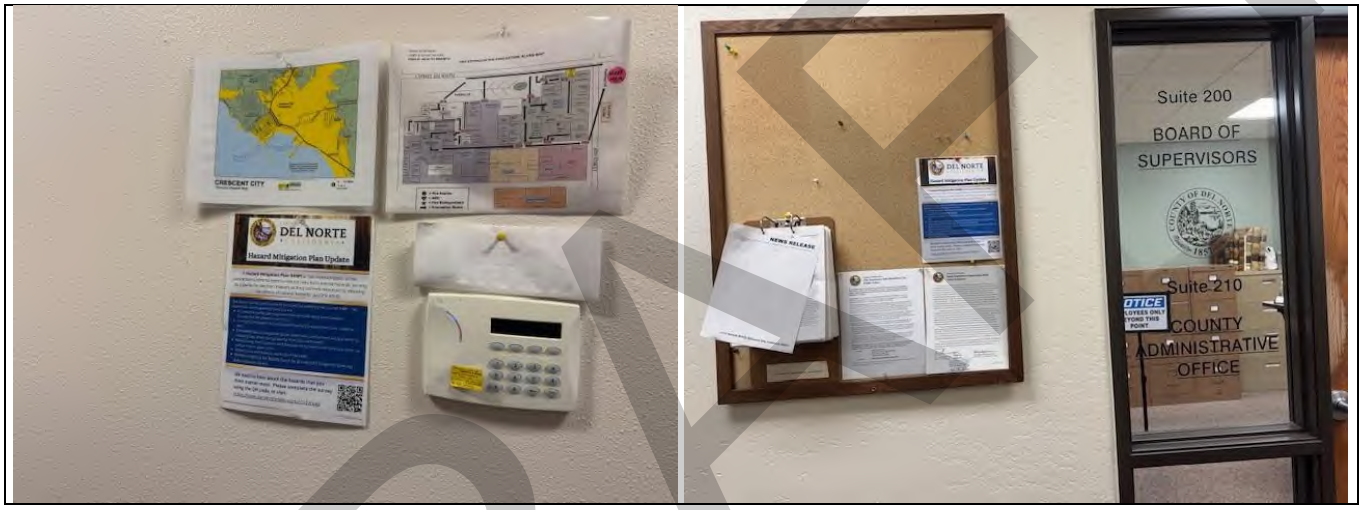
Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores,

DRAFT

hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

In addition to that work, the District partnered with the County to post information about the HMP update at local businesses and community gathering areas, such as State Farm Insurance, Pacific Northwest Physical Therapy, Crescent City Harbor, and the Del Norte County Library. Figure 5-1 shows selected outreach efforts and Appendix A includes all outreach efforts.

Figure 5-1. Public Outreach by Crescent Fire Protection District



5.3.1 Public Feedback Integration

Of the 196 responses to the public survey, 52 respondents reported that they received services from the District. These 52 respondents were extremely or very concerned about landslides, tsunamis, and wildfires. They reported receiving emergency information through mass notifications, government websites and newsletters, public meetings, TV/radio, and Facebook. They expressed concern about natural hazards closing US Highway 101, power outages, and road flooding. The mitigation strategy was prioritized with these concerns and community limitations in mind.

5.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. In addition to that work, the District invited stakeholders to participate in the planning process. The following organizations were invited to participate by attending a Steering Committee meeting, responding to the

DRAFT

stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan:

5.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Crescent City Fire and Rescue
- Crescent City and Del Norte County Public Works

5.4.2 Agencies that Have the Authority to Regulate Development

- Del Norte County Planning Division

5.4.3 Neighboring Communities

- Klamath Volunteer Fire Department
- Fort Dick Volunteer Fire Department

5.4.4 Representatives of Business, Academia, and Other Private Organizations

- Del Norte Unified School District
- Pacific Power
- Del Norte Ambulance

5.4.5 Nonprofit Organizations and Community-Based Organizations

- American Red Cross

5.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Crescent Fire Protection District performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

DRAFT

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Crescent Fire Protection District to identify opportunities for integrating mitigation concepts into ongoing District procedures.

5.5.1 Planning and Regulatory Capability and Integration

Table 5-2 summarizes the planning and regulatory tools that are available to Crescent Fire Protection District.

5.5.2 Development and Permitting Capability

Crescent Fire Protection District is a special district for unincorporated Del Norte County and Crescent City. The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County or Crescent City. Therefore, development and permitting capabilities are not applicable to the District.

5.5.3 Administrative and Technical Capability

Table 5-3 summarizes potential staff and personnel resources available to Crescent Fire Protection District and their current responsibilities that contribute to hazard mitigation.

5.5.4 Fiscal Capability

Table 5-4 summarizes financial resources available to Crescent Fire Protection District.

5.5.5 Education and Outreach Capability

Table 5-5 summarizes the education and outreach resources available to Crescent Fire Protection District.

5.5.6 Community Classifications

Table 5-6 summarizes classifications for community programs available to Crescent Fire Protection District.

DRAFT

Table 5-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Building Code	Yes	California Building Code (2022)	Local/State Local	DN County Building & Safety
Fire Marshal	Yes	California Fire Code (2022) California Health and Safety Code		Kevin Carey CCFR
The California Building Code (CBC) contains general building design and construction requirements relating to fire and life safety, structural safety, and access compliance. CBC provisions provide minimum standards to safeguard life or limb, health, property, and public welfare by regulating and controlling the design, construction, quality of materials, use and occupancy, location, and maintenance of all buildings and structures and certain equipment.				
Fire Suppression Assessment Ordinance	Yes	Ordinance No. 21-001, adopted July 12, 2021	Local	Crescent Fire Protection District
Any local agency which provides fire suppression services directly or by contract with the state or a local agency may, by ordinance or by resolution adopted after notice and hearing, determine and levy an assessment for fire suppression services pursuant to this article. The assessment may be made for the purpose of obtaining, furnishing, operating, and maintaining fire suppression equipment or apparatus or for the purpose of paying the salaries and benefits of firefighting personnel, or both, whether or not fire suppression services are actually used by or upon a parcel, improvement, or property.				
Planning				
Fire Suppression Assessment	Yes	2021 Assessment Engineers Report	District	Crescent Fire Protection District
This report describes the proposed Fire Suppression Assessment for Crescent Fire Protection District, including District parcels, expenses, and individual parcel assessments to be levied in fiscal year 2021/22. Fire expenses include budget and financial planning documents provided by the District. Assessment benefit was allocated to each parcel according to the Del Norte County 2020 parcel listing and associated land used codes within the District Boundaries.				
Master Plan	Yes	10 Year Financial Master Plan	District	Crescent Fire Protection District
This is the first stand-alone Master Plan in an effort to document current services, costs and structures for the fire department and identify long-term strategies for improved fire and life safety services to the community. This Master Plan revisits the organization's mission and sets forth a continuous improvement plan that serves to align department goals with community expectations. The report presents a roadmap of activities that the department and its partners intend to undertake to achieve important goals for staffing, community outreach, training, facilities, and fiscal sustainability.				
Community Wildfire Protection Plan	Yes	Del Norte County Fire Safe Council Community Wildfire Protection Plan 2020	County	Del Norte County Fire Safe Council
This Community Wildfire Protection Plan (CWPP) provides a broad description of what is necessary for a fire to begin and how communities can defend themselves when faced with a wildfire. The Plan focuses on how fuel can be mitigated to enhance community safety. It outlines the steps necessary for ensuring that local fire suppression efforts are successful (e.g. residence addressing, adequate roads, proper turnarounds, secondary access, water supply, etc.).				

DRAFT

Table 5-3. Administrative and Technical Capabilities

Resources	Available?	Comment
Administrative Capability		
Emergency Management/Public Safety Department	No	N/A
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	N/A
Mutual aid agreements	Yes	Del Norte County Fire Services Automatic Mutual Aid Agreement; adopted by all local government fire service agencies in Del Norte County.
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	N/A
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	None in house, private consultants by contract.
Engineers or professionals trained in building or infrastructure construction practices	Yes	None in house, private consultants by contract.
Planners or engineers with an understanding of natural hazards	Yes	None in house, private consultants by contract.
Staff with expertise or training in benefit/cost analysis	Yes	Fire Chief, Executive Secretary
Personnel skilled or trained in GIS and/or Hazus applications	Yes	None in house, private consultants by contract.
Environmental scientists familiar with natural hazards	Yes	Humboldt State University
Surveyors	Yes	None in house, private consultants by contract.
Emergency manager	Yes	Fire Chief, Deputy Chief, Battalion Chiefs
Grant writers	Yes	Various In-House Personnel

Table 5-4. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	No
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Yes
Other	Share of general property tax revenue

DRAFT

Table 5-5. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	Yes	Kevin Carey – Fire Chief Ray Rook – Battalion Chief - Communications
Personnel skilled or trained in website development	No	N/A
Hazard mitigation information available on your website	No	N/A
Social media for hazard mitigation education and outreach	Yes	Education and outreach via Department Facebook page
Citizen boards or commissions that address issues related to hazard mitigation	No	N/A
Warning systems for hazard events	Yes	Everbridge is used in the community for hazard notification. It uses any phone number entered by the person signing up to receive mass notifications.
Natural disaster/safety programs in place for schools	Yes	Public Education teaching sessions throughout the year
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	N/A
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	Yes	Everbridge is used in the community for hazard notification. It uses any phone number entered by the person signing up to receive mass notifications.

Table 5-6. Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System (CRS)	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	N/A	N/A	N/A
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Rating 2/2Y	2013
National Weather Service StormReady Certification	N/A	N/A	N/A
Firewise Communities classification	N/A	N/A	N/A

N/A = Not applicable

5.5.7 Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 5-7 summarizes the adaptive capacity for each identified hazard of concern and the District’s capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.

DRAFT

- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

Table 5-7. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Moderate
Extreme Heat	Moderate
Extreme Wind	Moderate
Excessive Rain	Moderate
Earthquake	Moderate
Flood	Moderate
Landslide	Moderate
Tsunami	Strong
Wildfire	Strong

5.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Crescent Fire Protection District is a special district for unincorporated Del Norte County and Crescent City. The District does not participate in the NFIP directly. Therefore, all structures located within the District's jurisdiction were included in the Del Norte County and Crescent City assessments of NFIP-insured structures with repetitive loss. This information can be found in Section 2.6 and Section 3.6.

5.7 JURISDICTIONAL RISK ASSESSMENT

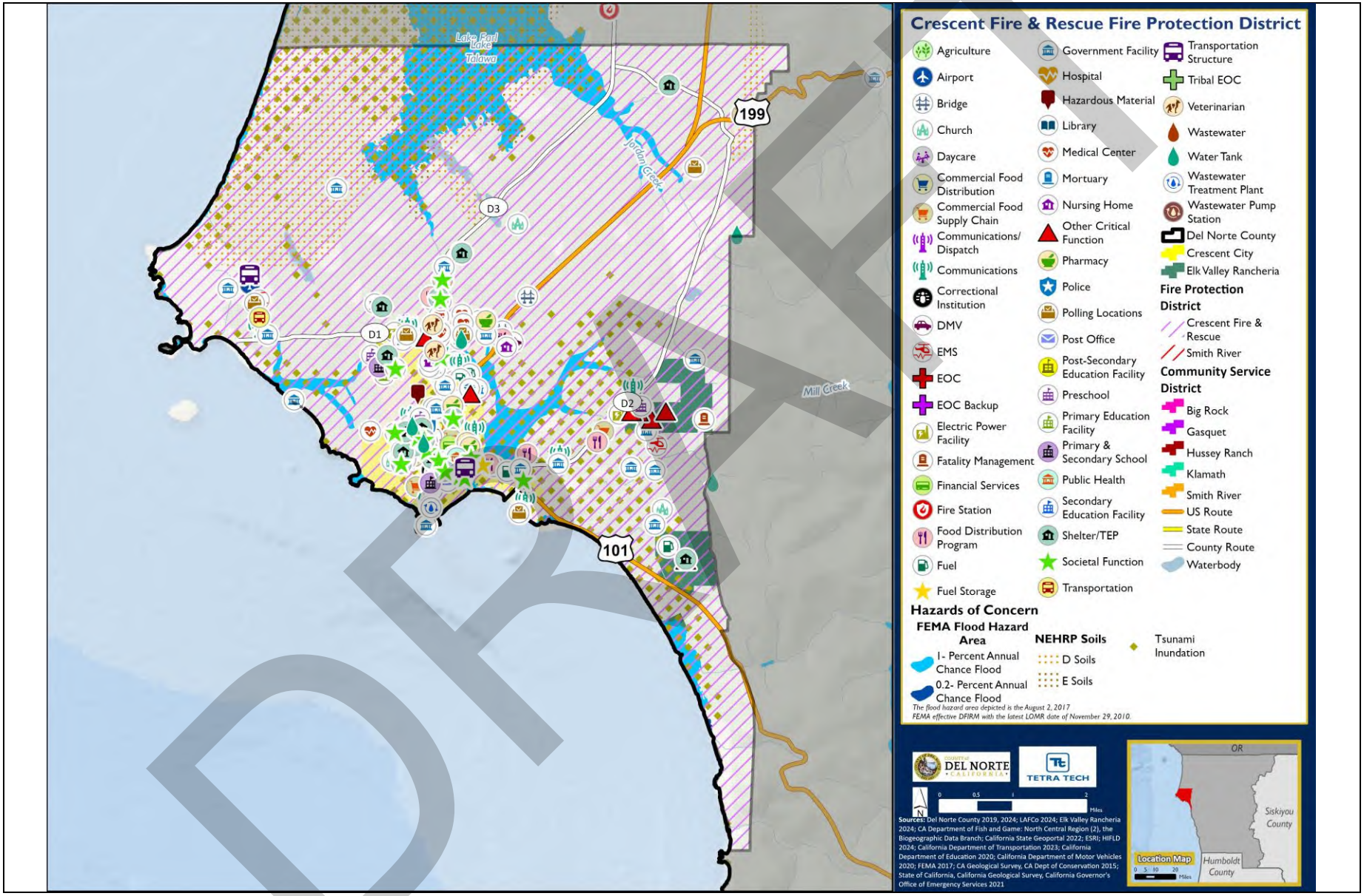
The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of the District's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

5.7.1 Hazard Area

Hazard area maps provided below illustrate the probable hazard areas impacted within the District are shown in Figure 5-2 and Figure 5-3. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which the District has significant exposure. The maps show the location of potential new development, where available.

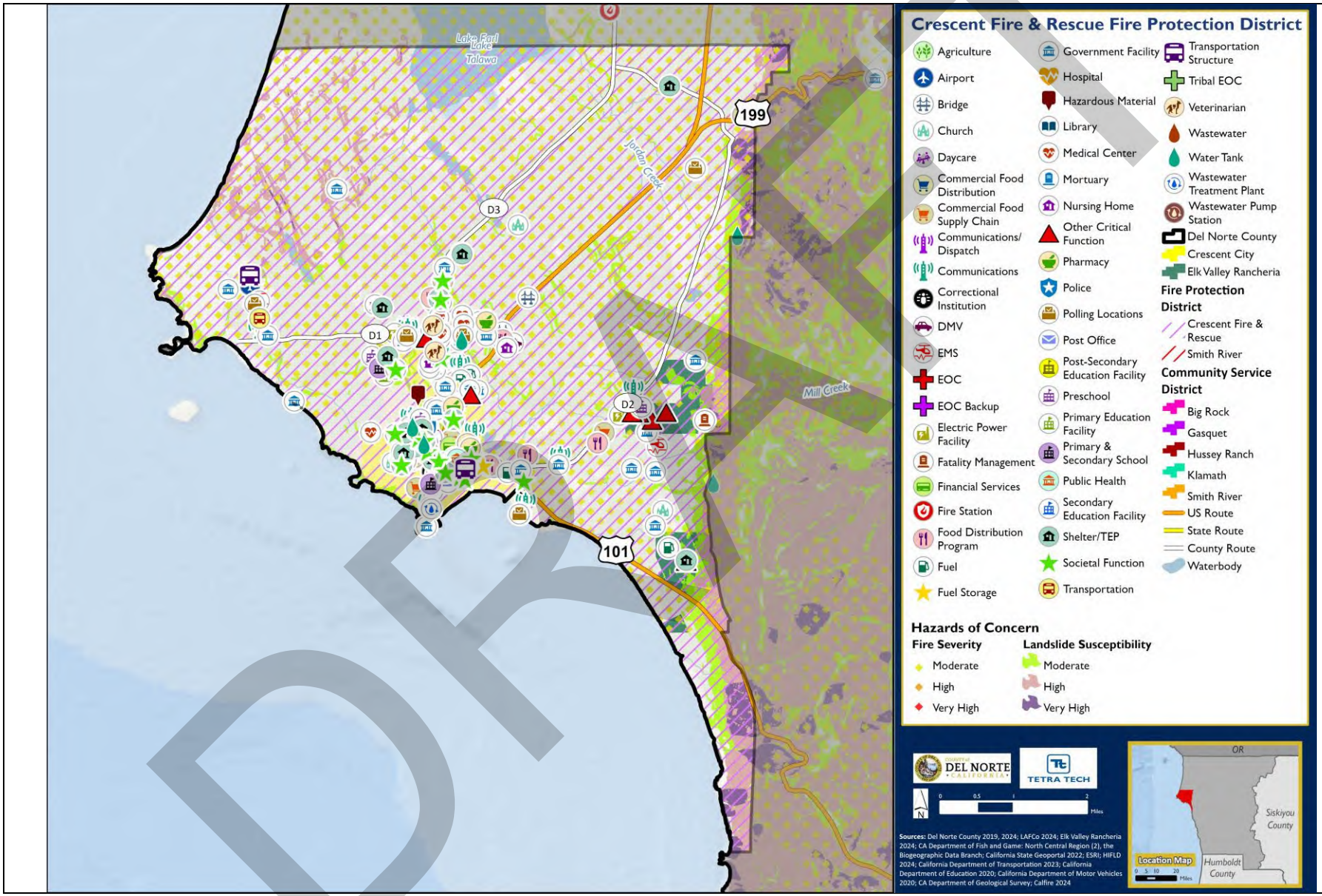
DRAFT

Figure 5-2. Crescent Fire Protection District Hazard Area Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location



DRAFT

Figure 5-3. Crescent Fire Protection District Wildfire and Landslide Hazard Area Extent and Location



DRAFT

5.7.2 Hazard Event History

The history of natural and non-natural hazard events in Del Norte County is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 5-8 provides details on loss and damage in the District during hazard events since the last hazard mitigation plan update.

Table 5-8. Hazard Event History in Crescent Fire Protection District

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Damage and Losses in Crescent Fire Protection District
February 24 to March 1, 2019	DR-4434-CA	Yes	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	None
January 20, 2020 to May 11, 2023	DR-4482-CA EM-3428-CA	Yes	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023.	None
September 4 to November 17, 2020	DR-4569-CA CA20-3	Yes	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	None
December 27, 2022 to January 31, 2023	DR-4683-CA CA23-1	Yes	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	None
February 21 to July 10, 2023	DR-4699-CA EM-3592-CA CA23-3	Yes	Severe storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199.	None
August 15, 2023	CA23-5	Yes	Dry thunderstorms produced lightning across the Six Rivers National Forest. 27 fires grew rapidly in the Gasquet Ranger District, jumping Highway 199, causing a 3-week closure, and requiring evacuation of the Town of Gasquet. The fire destroyed high-tension powerlines powering all of Del Norte County. The County was without power through August 25 when generators were installed. Main transmission lines were not repaired until September 10. The fire burned into October with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	None

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

DRAFT

5.7.3 Hazard Ranking

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for the District.

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. The District reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. Table 5-9 shows the District's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 5-9. Hazard Ranking

Hazard	Rank
Drought	Low
Extreme Heat	Low
Extreme Wind	Medium
Excessive Rain	Medium
Earthquake	Low
Flood	Medium
Landslide	Medium
Tsunami	High
Wildfire	High

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

5.7.4 Identified Issues

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for the jurisdiction. The following issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- Earthquake
  - District facilities are located on class D soil, which may be prone to liquefaction
  - Power disruptions can occur as a result of earthquakes
  - Response efforts may be hampered if fire facilities are damaged
  - Response efforts may be hampered as roads are blocked by building debris
- Tsunami

DRAFT

  - The Crescent Fire Protection District Engine Station is located in the tsunami inundation zone
  - Power disruptions can occur as a result of tsunamis
  - Response efforts may be hampered if fire facilities are damaged
  - Response efforts may be hampered as roads are blocked by water and debris
- Extreme wind
  - Power disruption can occur as a result of severe weather events.
  - Response efforts may be hampered as roads are blocked by downed trees and powerlines.
- Landslide
  - Response efforts may be hampered as roads are blocked by landslide debris.
- Flooding
  - Response efforts may be hampered as roads are blocked by floodwaters
- Wildfire
  - Power disruptions can occur as a result of wildfire
  - Response efforts may be hampered as roads are blocked by fire and fire-damaged trees
  - Smoke can disrupt aircraft access to the event and to commercial air travel

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

5.8 CONDITIONS THAT MAY IMPACT RISK

5.8.1 Population Pattern Trends

The District estimates that they serve a population of approximately 12,600 residents. The District is based in the one incorporated city in Del Norte County and has a visitor influx during the summer months (and similar visitor increases during the winter months). The overall County population is expected to decrease over the coming decades.

5.8.2 Changes in Land Use and Development

Crescent Fire Protection District is a special district for unincorporated Del Norte County and Crescent City. The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County or Crescent City. Therefore, new and anticipated development located within the District's jurisdiction were included in the Del Norte County and Crescent City Growth/Development Trends. This information can be found in Sections 2.8.2 and 3.8.2.

DRAFT

5.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

5.9.1 Past Mitigation Action Status

Table 5-10 indicates progress on the District's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

5.9.2 Additional Mitigation Efforts

In addition to the mitigation actions completed in Table 5-10, the District identified the following mitigation efforts completed since the last HMP:

- The District participates in the Cal OES prepositioning program to staff emergency response in times of upcoming severe weather events. As a result, first responders are well-positioned to respond to incidents immediately after they occur.

5.9.3 Changes in Priorities

There have been no changes in priorities for Crescent Fire Protection District since the 2019 HMP update.

5.9.4 Hazards Included in District Mitigation Strategy

The Crescent Fire Protection District is a very small district and does not have the capacity to design an all-hazards mitigation program. The District chose four targeted projects that will enhance the overall resilience of their jurisdiction to wildfire impacts. The District will attempt to support efforts in public education for drought, earthquake, excessive rainfall, extreme wind, flood, and landslide.

Because the District is located inland it is not affected by tsunamis. Additionally, the District did not include extreme heat as a hazard since the area is rarely affected by high temperatures or days of extreme heat.

DRAFT

Table 5-10. Mitigation Action Status

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
CFPD-1	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard areas.	CFPD	Do not wish to pursue –	No	We do not have staffing for these actions	N/A
CFPD-2	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	CFPD	No progress	Yes	Include in 2026 Mitigation Strategy	All hazards
CFPD-3	Purchase generators for critical facilities and infrastructure that lack adequate back-up power including Cooper and Bertsch stations.	CFPD	No progress- we do not currently have budget/funding for generators to these 2 stations	No	These facilities are less used and less staffed	N/A
CFPD-4	Continue to participate not only in general mutual-aid agreements, but also in agreements with adjoining jurisdictions for cooperative response to all hazards and disasters	CFPD	In progress – as part of auto and mutual aid agreements, we respond to any request under said agreements	Yes	Include in 2026 Mitigation Strategy	All hazards
CFPD-5	Enhance Department Webpage and/or Facebook page to include more comprehensive disaster planning resources	CFPD	No progress – limited staffing	No	Limited staffing to implement	N/A
CFPD-6	Develop Disaster Operations Policies and Procedures	CFPD	In progress – as a City Dept and Fire District under operating agreement – we operate under the City of Crescent City Disaster Operations policies	No	Ongoing capability, will continue to update as necessary	N/A
CFPD-7	Support the County-wide initiatives identified in Volume 1 of the hazard mitigation plan.	CFPD	No progress – limited staffing	No	Limited staffing to implement	N/A

DRAFT

5.9.5 Proposed Hazard Mitigation Actions for the HMP Update

The District participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 "Selecting Appropriate Mitigation Measures for Floodprone Structures" (March 2007)
- FEMA "Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards" (January 2013)

The action worksheets included at the end of this annex list the mitigation actions that the District would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in District priorities.

Table 5-11 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Table 5-11. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Wildfire	CFPD-1, CFPD-2	-	CFPD-4	CFPD-3

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.
Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.
Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 5-12 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

Table 5-12. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Implement CWPP	Medium	High	3	1-5 years	7.6	High
Fire Prevention Education	Low	Low	3	1-5 years	6.6	Medium
Mutual Aid Agreements	Low	Low	2	1-5 years	6.4	Medium
Maintain HMP	Low	Low	1	1-5 years	6.2	Medium

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

DRAFT

5.9.6 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

CFPD-1: Maintain HMP

Lead Agency:	Crescent Fire Protection District	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☒ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The District must stay engaged in the Hazard Mitigation Plan annual maintenance cycle and promotion of mitigation activities that could affect the District.	
Description of the Solution:	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	
Estimated Cost:	Low	
Potential Funding Sources:	Staff Time	
Implementation Timeline:	1-5 Years	
Objectives Met:	1	
Benefits:	Long-term benefits of the action are difficult to quantify in the short term.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	N/A	
Impact on Capabilities:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

CFPD-2: Mutual Aid Agreements

Lead Agency:	Crescent Fire Protection District	
Supporting Agencies:	CAL FIRE	
Hazards of Concern:	☐ Drought ☐ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☐ Flood ☐ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	Response to major wildfires can quickly exceed the firefighting capabilities of the District, requiring assistance from other jurisdictions.	
Description of the Solution:	Continue to participate not only in general mutual-aid agreements, but also in agreements with adjoining jurisdictions.	
Estimated Cost:	Low	
Potential Funding Sources:	Staff Time	
Implementation Timeline:	1-5 Years	
Objectives Met:	1,4	
Benefits:	Long-term benefits of the action are difficult to quantify in the short term.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action supports the Safety and Security lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

CFPD-3: Fire Prevention Education

Lead Agency:	Crescent Fire Protection District	
Supporting Agencies:	Del Norte County, CAL FIRE, Listos California	
Hazards of Concern:	☒ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The wildfires in August 2023 exposed a gap in the public's understanding of wildfire response and emergency/disaster preparedness.	
Description of the Solution:	To mitigate that gap, the District will seek to develop a public education and awareness program to include website updates, social media campaigns, and in person events to better equip residents on how to mitigate hazards and be prepared for emergencies.	
Estimated Cost:	Low	
Potential Funding Sources:	Staff Time, CAL FIRE Wildfire Prevention Grants	
Implementation Timeline:	1-5 Years	
Objectives Met:	1,3,4	
Benefits:	Long-term benefits of the action are difficult to quantify in the short term.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action supports the Safety and Security lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☒ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

CFPD-4: Implement CWPP

Lead Agency:	Crescent Fire Protection District	
Supporting Agencies:	Del Norte County, CAL FIRE	
Hazards of Concern:	☐ Drought ☐ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☐ Flood ☐ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	In 2020, the county adopted a Community Wildfire Protection Plan which identifies a list of priority projects for the Crescent Fire Protection District.	
Description of the Solution:	Implement the priority projects in the 2020 Del Norte County Community Wildfire Protection Plan including, but not limited to, defensible space, fuel breaks, prescribed burns, mechanical fuel reduction, signage programs, and generators.	
Estimated Cost:	Medium	
Potential Funding Sources:	Staff Time, CAL FIRE Wildfire Prevention grant, CAL FIRE Wildfire Resilience grant, CAL FIRE Forest Health grant	
Implementation Timeline:	1-5 Years	
Objectives Met:	1,4,5	
Benefits:	Action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action supports the Safety and Security lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☒ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	High	

DRAFT

6. ELK VALLEY RANCHERIA

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Elk Valley Rancheria with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Elk Valley Rancheria, describes who participated in the planning process, assesses Elk Valley Rancheria's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

6.1 HAZARD MITIGATION PLANNING TEAM

The Federally recognized tribe of Elk Valley Rancheria identified primary and alternate HMP points of contact and developed this plan over the course of several months. Dale A. Miller, Tribal Council Chairman, represented the community on the Del Norte County HMP Planning Partnership and Steering Committee, and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 6-1 summarizes officials who participated in the development of the annex and in what capacity. Additional documentation of the planning activities through Planning Partnership meetings is included in Volume 1.

Table 6-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Dale A. Miller, Tribal Council Chairman Address: 2332 Howland Hill Rd. Crescent City, CA 95531 Phone Number: 707-465-2600 Email: dmiller@elk-valley.com	Name/Title: Richard Warner, Tribal Council Vice-Chairman Address: 2332 Howland Hill Rd. Crescent City, CA 95531 Phone Number: 707-465-2600 Email: rwarner@elk-valley.com
Additional Contributors	
Name/Title: Lawanda Green, THPO Method of Participation: Cultural Resources	
Name/Title: Crista Stewart, COO Method of Participation: Grants and Planning Development	
Name/Title: Nate Pincombe, CIO Method of Participation: Data Infrastructure	
Name/Title: Taran Peterson, ISO Method of Participation: Cybersecurity	
Name/Title: Jennifer Meyer, Emergency Manager Method of Participation: Completed the Tribes portion of HMP spreadsheets	
Name/Title: Matthew Schwoebel, Environmental Director Method of Participation Hazard Mitigation Activities	

DRAFT

6.2 COMMUNITY PROFILE

The following is a summary of key information about the Elk Valley Rancheria (EVR) tribe and its history:

- **Founding Date**—Time immemorial; Reservation created in 1909; illegally terminated in 1962, re-recognized in 1984; formally reorganized in 1994
- **Number of Current Tribal Members**—88
- **Current Tribal Planning Area Population**—99
- **Location and Description**—The Elk Valley Rancheria (reservation) consists of approximately 100 acres of land located wholly within Del Norte County, California. The Reservation is accessible from Howland Hill Road to the south, Norris Avenue to the north and is bisected by Mathews Street and Wyentae Street. The Reservation is comprised of 41 parcels located within the unincorporated portion of the city of Crescent City, Del Norte County. Of the 41 parcels that comprise the Reservation, twelve parcels are held in trust (approximately 40 acres). The remainder are fee lands owned by individuals (Tribal and non-Tribal) and by EVR.
- **Climate—**Elk Valley Rancheria lies in a Mediterranean Climate with mostly warm and dry summers. Precipitation approaches nearly 70 inches annually, with the wettest months being from November to March. Average temperatures are mild, the warmest month being August with an average high of 66 °F and an average low of 51 °F. The coolest, December averages a high of 53 °F and a low of 39 °F.
- **Brief History**—The Tolowa Indians of the Elk Valley Rancheria negotiated a treaty with the United States in 1852. The U.S. Senate never ratified this treaty or any of the 18 treaties negotiated with other tribes at the time, but treaties need not be consummated to evidence recognition (Department of the Interior, 2007). Pursuant to the 1906 Indian Office Appropriation Act of 1906, the United States purchased 100 acres for “homeless Indians of Del Norte County,” formally establishing the original Reservation at its present location. Pursuant to this 1906 authorization the United States purchased what is now known as the Elk Valley Rancheria for the Elk Valley Tolowa. The United States held the property in trust for the benefit of the Tribe but legal title to the land remained with the United States. The initial Tribal members, consisting of displaced Indian people of both Tolowa and Yurok ancestry, organized a Tribal government pursuant to the Indian Reorganization Act of 1934. With the California Rancheria Act of 1958, Congress initiated a policy of terminating the Federal supervision of Indian tribes and established a process of terminating the Federal trust relationship with the Tribe thereby terminating their status as individual Indians and as a Tribe. The Elk Valley Rancheria was terminated in 1962. In addition to revoking the Tribe’s right to self-governance and other measures, the termination policy divided and transferred Reservation properties to individual members, requiring the payment of property taxes. As a result, Tribal members sold most of the property within the Reservation to non-Indians to avoid forced tax sales and few parcels remained in Tribal or even Indian ownership. In the 1970s, the Tribe joined other Indian community groups to legally challenge the 1958 California Rancheria Act and associated terminations of Tribal status (known as the “Tillie Hardwick” case). On March 2, 1987 the District Court ordered the Secretary of the Interior to publish notice that the United States maintained a

DRAFT

government-to-government relationship with the Tribe re-establishing its Federal recognition status. In addition, the Court held that the Reservation had never been lawfully terminated, and the boundaries legally remained in existence. Accordingly, the Court established a process for the Secretary of the Interior to take trust title to any property still owned by any Indian on the Reservation; however, few parcels remained in Indian Ownership. The Tribe reorganized and, on December 27, 1994, formed a new government under a Constitution approved by the Secretary of the Interior.

- **Cultural Heritage**—The Elk Valley Rancheria Tribal membership is made up mostly of Tolowa and some Yurok Indians.
- **Tribal Governance and Tribal Departments**—The Tribe's governing body is the Elk Valley Tribal Council, a nine-member body consisting of a Chairperson, Vice-Chairperson, Secretary, Treasurer and five additional council members. The nine-member governing body is elected by the general Tribal membership for terms of four years. Tribal officials are elected at large with the most recent election having been held on January 2025. The Elk Valley Tribal Council assumes responsibility for the adoption of this plan; The Tribal Emergency Planning Committee will oversee its implementation. Other departments involved in the Plan implementation include Fiscal, Tribal Services, Maintenance, Grants and Environmental Services.
- **Health and Social Service Program—**As a service to Elk Valley Rancheria Tribal Members, the Tribe offers a Wellness Center that provides exercise classes, elder assistance, rides to doctor appointments, prescription pick up, meal deliveries, counseling for drug and alcohol, and coordination of local services.
- **Economy and Tourism**—The Elk Valley Rancheria Tribal Planning Area is strongly based in the tourism and social service industry. The Tribe is one of the largest employers within Del Norte County.

6.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores, hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

6.4 STAKEHOLDER ENGAGEMENT

6.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Elk Valley Rancheria, California Tribal Emergency Management Department
- Elk Valley Rancheria, California Tribal Information Technology Department

DRAFT

- Elk Valley Rancheria, California Tribal Public Works Department
- Elk Valley Rancheria, California Tribal Transportation Department
- Elk Valley Rancheria, California Tribal Environment Protection Department
- Del Norte County Office of Emergency Services
- Crescent Fire Protection District
- FEMA

6.4.2 Agencies that Have the Authority to Regulate Development

- Elk Valley Rancheria, California Tribal Council
- Elk Valley Rancheria, California Environmental Protection Office
- Elk Valley Rancheria, California Tribal Historic Preservation Office
- Elk Valley Rancheria, California Tribal Housing Department
- Elk Valley Rancheria, California Tribal Information Technology Department

6.4.3 Neighboring Communities

- City of Crescent City
- Yurok Tribe
- Tolowa Dee ni' Nation
- Pulikla Tribe

6.4.4 Representatives of Business, Academia, and Other Private Organizations

- Elk Valley Rancheria, California Government Building
- Elk Valley Casino
- Elk Valley Tribal Fuel Mart
- Pacific Power
- City of Crescent City Water
- Spectrum
- Frontier
- Verizon

6.4.5 Nonprofit Organizations and Community-Based Organizations

- United Indian Health Services
- Head Start
- California Rural Indian Health Board

DRAFT

6.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Elk Valley Rancheria performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Elk Valley Rancheria to identify opportunities for integrating mitigation concepts into ongoing procedures.

6.5.1 Planning and Regulatory Capability and Integration

Table 6-2 summarizes the planning and regulatory tools that are available to Elk Valley Rancheria.

Table 6-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Building Code	Yes	Tribe, State & County Building Code	Tribe; County/State	Elk Valley Rancheria
How has or will this be integrated with the HMP and how does this reduce risk?				
Elk Valley Rancheria has adopted building codes from the State of California. Fee land within the Reservation but not owned by EVR may be subject to county building codes in some instances.				
Zoning/Land Use Code	Yes	Ordinance No, 01-08	Local	Elk Valley Rancheria
How has or will this be integrated with the HMP and how does this reduce risk?				
Elk Valley Rancheria, California Ordinance No, 01-08 – Zoning and Land Use Regulations for the Elk Valley Rancheria. Fee land within the Reservation but not owned by EVR may be subject to county zoning in some instances.				

DRAFT

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Subdivision Code	Yes	Ordinance No, 01-08	Local	Elk Valley Rancheria
How has or will this be integrated with the HMP and how does this reduce risk? Elk Valley Rancheria, California Ordinance No, 01-08 – Zoning and Land Use Regulations for the Elk Valley Rancheria. Fee land within the Reservation but not owned by EVR may be subject to county building codes in some instances.				
Site Plan Code	Yes	Ordinance No, 01-08	Local	Elk Valley Rancheria
How has or will this be integrated with the HMP and how does this reduce risk? Elk Valley Rancheria, California Ordinance No, 01-08 – Site Plan Review for the Elk Valley Rancheria guides in issuing building permits.				
Stormwater Management Code	Yes	Nonpoint Source Management Plan 2016	Local	Elk Valley Rancheria
The Nonpoint Source Plan identifies an action plan to reduce pollution and support healthy watersheds and water quality. This plan reduces community risk of disease or pollution in the event of a flooding event that spreads pollution on a large scale.				
Environmental Protection Ordinance(s)	Yes	Ordinance No.10-02	Local	Elk Valley Rancheria
The ordinance covers environmental protection measures related to natural hazards.				
Emergency Management Ordinance	Yes	Comprehensive Emergency Management Plan 2019	Federal	Elk Valley Rancheria
The Comprehensive Economic Development Strategy contains provisions for economic resilience following a natural disaster.				
Planning Documents				
General/Comprehensive Plan	Yes	2023 Comprehensive Transportation and Master Plan	Local	Elk Valley Rancheria
The plan includes goals and policies to minimize damage to structures, property, and infrastructure caused by natural hazards.				
Capital Improvement Plan	Yes	Capital Improvement Program	Local	Elk Valley Rancheria
The CIP addresses the existing casino plus the future casino/resort planned for the Tribe's Martin Ranch property. Access roads, water and wastewater infrastructure are also addressed. Warehousing and a possible retail operation are slated to be listed in the CIP update.				
Stormwater Management Plan	Yes	Stormwater Management Plan	Local	Elk Valley Rancheria
The plan includes provisions for managing excessive rain within the jurisdiction.				
Economic Development Plan	Yes	Five Year Comprehensive Economic Development Strategy	Local	Elk Valley Rancheria
The Comprehensive Economic Development Strategy contains provisions for economic resilience following a natural disaster.				
Community Forest Management Plan	Yes	2016-2026 Integrated Resource Management Plan	Local	Elk Valley Rancheria
The plan includes goals and policies to minimize damage to Tribal resources caused by natural hazards.				

DRAFT

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Transportation Plan	Yes	2023 Comprehensive Transportation Plan	Local	Elk Valley Rancheria
The plan includes goals and policies to minimize damage to infrastructure caused by natural hazards.				
Agriculture Plan	Yes	2016-2026 Integrated Resource Management Plan	Local	Elk Valley Rancheria
The plan includes goals and policies to minimize damage to Tribal resources caused by natural hazards.				
Climate Action/ Resilience/Sustainability Plan	In Progress	Climate Action, Resiliency and Sustainability Plan	Local	Elk Valley Rancheria
In the process of completing a Climate Action, Resiliency, Sustainability Plan. Completed by 2025.				
Tourism Plan	Yes	Five-Year Comprehensive Economic Development Strategy May 2019	Local	Elk Valley Rancheria
The Comprehensive Economic Development Strategy contains provisions for economic resilience following a natural disaster.				
Business/ Downtown Development Plan	Yes	Five-Year Comprehensive Economic Development Strategy May 2019	Local	Elk Valley Rancheria
The Comprehensive Economic Development Strategy contains provisions for economic resilience following a natural disaster.				
Revenue Allocation Plan	Yes	Revenue Allocation Plan, adopted October 15, 2003.	Local	Elk Valley Rancheria
Revenue Allocation Plan adopted October 15, 2003. Plan is not scheduled for periodic update.				
Response/Recovery Planning				
Emergency Operations Plan	Yes	Comprehensive Emergency Management Plan 2019	Federal	Elk Valley Rancheria
Emergency Planner on Staff. FEMA Community Emergency Response Team Certified. Elk Valley developed a Comprehensive Emergency Management Plan in May 2019.				
Continuity of Operations Plan	Yes	Comprehensive Emergency Management Plan 2019	Federal	Elk Valley Rancheria
The plan contains provisions to continue governance following a natural hazard event.				
Threat and Hazard Identification and Risk Assessment	Yes	FEMA THIRA and SPR Submission Annually	Federal	Elk Valley Rancheria
The THIRA identifies threats and hazards that may impact Elk Valley.				
Public Health Plan	Yes	Pandemic Response Plan Annex to the Comprehensive Emergency Management Plan	Local	Elk Valley Rancheria
The plan includes policies related to sheltering during a public health emergency.				

DRAFT

6.5.2 Development and Permitting Capability

Elk Valley Rancheria is a federally recognized tribe located in unincorporated Del Norte County. The Tribe is subject to the Del Norte County and State of California building codes and land use regulations. The Tribe does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, building code, land use, and development capabilities are not applicable to the District.

6.5.3 Administrative and Technical Capability

Table 6-3 summarizes potential staff and personnel resources available to Elk Valley Rancheria and their current responsibilities that contribute to hazard mitigation.

6.5.4 Fiscal Capability

Table 6-4 summarizes financial resources available to Elk Valley Rancheria.

6.5.5 Education and Outreach Capability

Table 6-5 summarizes the education and outreach resources available to Elk Valley Rancheria.

6.5.6 Community Classifications

Table 6-6 summarizes classifications for community programs available to Elk Valley Rancheria.

DRAFT

Table 6-3. Administrative and Technical Capabilities

Resources	Available?	Comment
ADMINISTRATIVE CAPABILITY		
Planning Board	Yes	Disaster/Safety Committee and Cybersecurity Planning Committee
Zoning Board of Adjustment	No	N/A
Planning Department	Yes	Disaster/Safety Committee and Cybersecurity Planning Committee
Mitigation Planning Committee	Yes	Disaster/Safety Committee and Cybersecurity Planning Committee
Environmental Board/Commission	Yes	Environmental Department
Open Space Board/Committee	No	N/A
Economic Development Commission/Committee	Yes	COO, CFO, Council
Public Works/Highway Department	Yes	Transportation Department
Construction/Building/Code Enforcement Department	Yes	Safety Department
Emergency Management/Public Safety Department	Yes	Disaster/Safety Committee and Cybersecurity Planning Committee, Emergency Management Department
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Transportation and Maintenance Department
Mutual aid agreements	Yes	Emergency Management
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	N/A
Other		
TECHNICAL/STAFFING CAPABILITY		
Planners or engineers with knowledge of land development and land management practices	No	N/A
Engineers or professionals trained in building or infrastructure construction practices	No	N/A
Planners or engineers with an understanding of natural hazards	No	N/A
Staff with expertise or training in benefit/cost analysis	Yes	Accounting; Legal
Professionals trained in conducting damage assessments	No	N/A
Personnel skilled or trained in GIS and/or Hazus applications	Yes	Environmental Department
Staff that work with socially vulnerable populations or underserved communities	Yes	Disaster/Safety Committee and Cybersecurity Planning Committee, Emergency Management, and Human Resources
Environmental scientists familiar with natural hazards	No	N/A
Surveyors	No	N/A
Emergency manager	Yes	Human Resources/Safety Department
Grant writers	Yes	Grants Department
Resilience Officer	No	N/A

DRAFT

Table 6-4. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants (CDBG-DR)	Yes
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Yes (Bureau of Indian Affairs, Indian Health Services, USDA, US EPA, US Fire Administration, Tribal Homeland Security Grants, USACE, FEMA Stafford Act Grant Programs, Healthy Reforestation Action)
Open Space Acquisition funding programs	No

Table 6-5. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	Yes	
Personnel skilled or trained in website development	Yes	
Hazard mitigation information available on your website	Yes	
Social media for hazard mitigation education and outreach	No	
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Emergency Planning Committee
Warning systems for hazard events	No	
Natural disaster/safety programs in place for schools	No	
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	Yes	Quarterly Tribal Member Newsletter

Table 6-6. Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
National Weather Service StormReady Certification	No	-	-
Firewise Communities classification	No	-	-

DRAFT

6.5.7 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 6-7 summarizes the adaptive capacity for each identified hazard of concern and Elk Valley Rancheria's capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

Table 6-7. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Moderate
Extreme Heat	Moderate
Extreme Wind	Moderate
Excessive Rain	Moderate
Earthquake	Moderate
Flood	Moderate
Landslide	Moderate
Tsunami	Moderate
Wildfire	Moderate

6.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Elk Valley Rancheria is a federally recognized tribe located in unincorporated Del Norte County. The Tribe does not participate in the NFIP directly. Therefore, all structures located within the District's jurisdiction were included in the Del Norte County assessment of NFIP-insured structures with repetitive loss. This information can be found in Section 2.6.

6.7 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of Elk Valley Rancheria's risk assessment

DRAFT

results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

6.7.1 Hazard Area

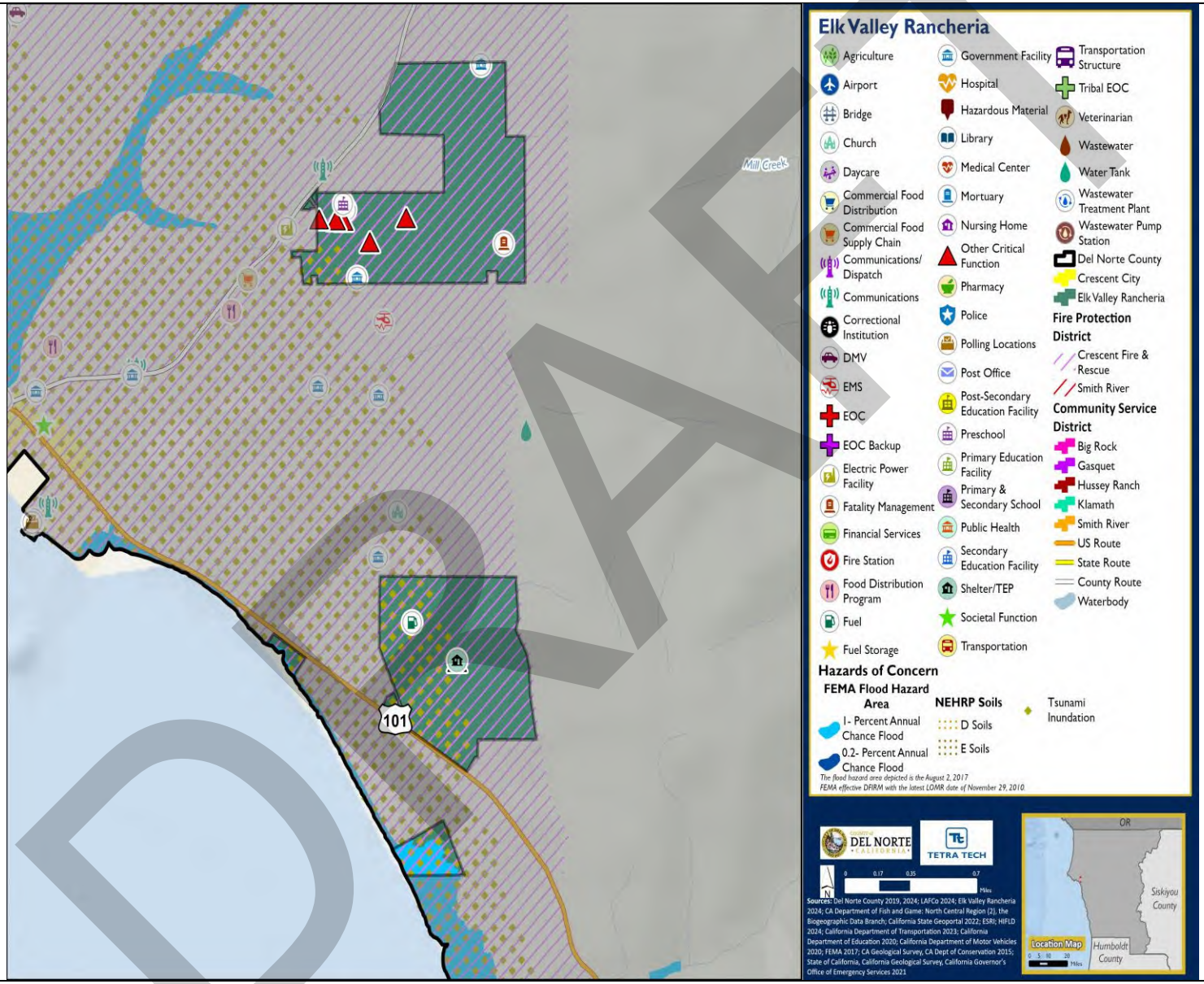
Hazard area maps provided below illustrate the probable hazard areas impacted within the Tribe are shown in Figure 6-1 and Figure 6-2. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Elk Valley Rancheria has significant exposure. The maps show the location of potential new development, where available.

6.7.2 Hazard Event History

The history of natural and non-natural hazard events in Elk Valley Rancheria is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 6-8 provides details on loss and damage in Elk Valley Rancheria during hazard events since the last hazard mitigation plan update.

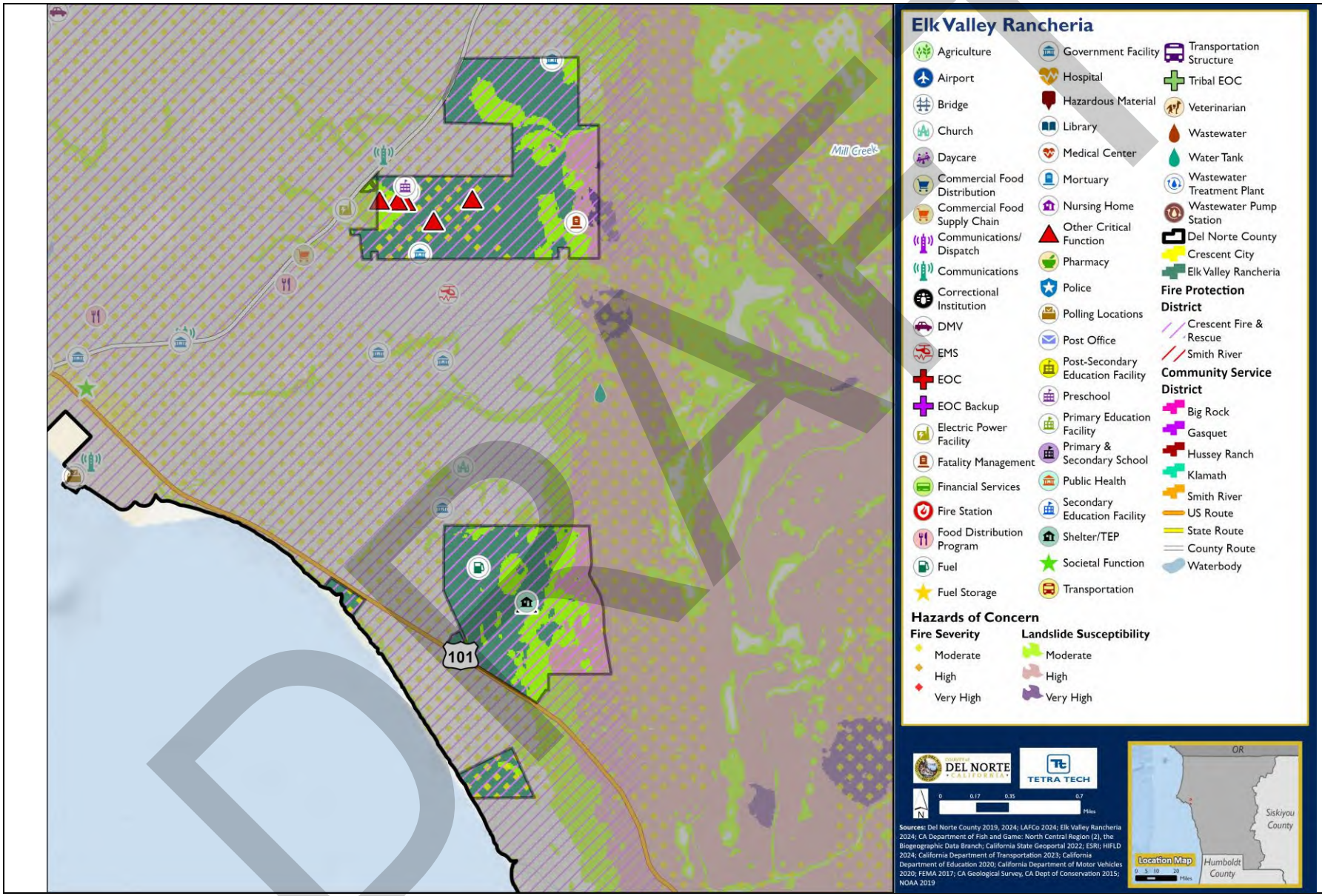
DRAFT

Figure 6-1. Elk Valley Rancheria Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location



DRAFT

Figure 6-2. Elk Valley Rancheria Wildfire and Landslide Hazard Area Extent and Location



DRAFT

Table 6-8. Hazard Event History in Elk Valley Rancheria

Dates of Event	Event Type (Disaster Declaration)	County Designated ?	Summary of Event	Summary of Damage and Losses in Elk Valley Rancheria
February 24 to March 1, 2019	Severe Storm DR-4434-CA	Yes	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	None
January 20, 2020 to May 11, 2023	Pandemic (COVID 10) DR-4482-CA EM-3428-CA	Yes	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023.	Declaration Number: Resolution 2020-13 Closure of Tribally owned business Tsunami Lanes on March 14, 2020. Temporary closure of Tribally owned business Elk Valley Casino and Tribal Office March 18, 2020 – June 1, 2020. Number of Tribal Members affected 80 and Number of Tribal Employees Affected 200.
September 4 to November 17, 2020	Wildfire DR-4569-CA CA20-3	Yes	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	None
December 27, 2022 to January 31, 2023	Flood DR-4683-CA CA23-1	Yes	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	None
February 21 to July 10, 2023	Severe Storm, Flood DR-4699-CA EM-3592-CA CA23-3	Yes	Severe storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199.	None

DRAFT

Dates of Event	Event Type (Disaster Declaration)	County Designated ?	Summary of Event	Summary of Damage and Losses in Elk Valley Rancheria
August 15, 2023	Wildfire CA23-5	Yes	Dry thunderstorms produced lightning strikes across the Six Rivers National Forest. 27 fires developed in the Gasquet Ranger District and grew rapidly, jumping Highway 199 causing a 3-week closure and resulting in the evacuation of the Town of Gasquet. The fire destroyed high-tension powerlines powering all of Del Norte County. The County was without power through August 25 when generators were installed. Main transmission lines were not repaired until September 10. The fire burned into October with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	Declaration Number: Resolution 2023-25 33 local Tribal Members were directly impacted by the power shut-off. This number does not include household numbers. The Tribe assisted with the procurement and distribution of generators to Tribal Members affected by the outage. Additionally, we had several displaced Tribal Members due to evacuation measures and air quality issues. Several Tribal Members had to be housed at local hotels.

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

6.7.3 Hazard Ranking

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for Elk Valley Rancheria.

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. Elk Valley Rancheria reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, Elk Valley Rancheria determined there weren't any changes.

Table 6-9 shows Elk Valley Rancheria's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

DRAFT

Table 6-9. Hazard Ranking

Hazard	Rank
Drought	Medium
Extreme Temperature	Medium
Extreme Wind	Low
Excessive Rain	Low
Earthquake	Low
Flood	Low
Landslide	Low
Tsunami	Medium
Wildfire	High

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

6.7.4 Identified Issues

After review of Elk Valley Rancheria's hazard event history, hazard rankings, hazard location, and current capabilities, Elk Valley Rancheria identified the following vulnerabilities within the community:

- The access to US 101 is located in the tsunami inundation zone. In the event of a tsunami, residents may be unable to access the road to evacuate.
- Several critical facilities are located in the moderate wildfire severity zone.
- Tribal Governmental Offices could be impacted by flooding or seismic events, disrupting essential government functions.
- Elder housing units, Head Start and UIHS facilities onsite are vulnerable to power outages and access disruptions.
- Highway 101 road access may be blocked by wildfire, flooding, or landslide, limiting evacuation and emergency response.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

6.8 CONDITIONS THAT MAY IMPACT RISK

6.8.1 Population Pattern Trends

Based on U.S. Census Bureau's American Society Survey (ACS) 5 year estimates for 2023, recent data suggest the population of Elk Valley Rancheria may have decreased from around 100 in 2020 to approximately 67 in 2023, implying a downward trend in the short term.

DRAFT

6.8.2 Changes in Land Use and Development

Elk Valley Rancheria is a federally recognized tribe located in unincorporated Del Norte County. The District does not permit or regulate development. Development permits within the Tribe's jurisdiction are issued through Del Norte County. Therefore, changes in development that have occurred in hazard-prone areas located within the District's jurisdiction were included in the Del Norte County Growth/Development Trends. This information can be found in Section 2.8.2.

6.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

6.9.1 Past Mitigation Action Status

Table 6-10 indicates progress on the county's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

Table 6-10. Mitigation Action Status

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
EVR-1	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that are located in high or medium ranked hazard areas.	Elk Valley Rancheria	In Progress	Yes	EVR-9 Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that are located in high or medium ranked hazard areas.	Earthquake, Flood, Landslide, Tsunami, Wildfire
EVR-2	Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including the Comprehensive Emergency Management Plan, Integrated Resource Management Plan and the Comprehensive Master and Transportation Plan.	Elk Valley Rancheria	Complete	No	-	-

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
EVR-3	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	Elk Valley Rancheria	Complete	No	-	-
EVR-4	Purchase generators for critical facilities and infrastructure that lack adequate back-up power including the Grants Building and the Head Start Building.	Elk Valley Rancheria	In Progress	Yes	EVR-4 Backup Power for Critical Facilities, such as the installations of solar plus battery or generator backup systems at critical facilities like the Tribal Government building, community center, emergency shelter, Elk Valley UIHS, Elk Valley Head Start, Elk Valley Casino, and Elk Valley Tribal Fuel Mart.	All Hazards
EVR-5	EVR-5—Inventory and assess all culverts on Tribal lands. Through targeted mitigation, replace those likely to fail during a storm event.	Elk Valley Rancheria	In Progress	Yes	EVR-6 Protect tribal transportation infrastructure from natural hazards, reduce roadway flooding and access disruption, ensure safe evacuation and emergency response routes and improve infrastructure resilience to extreme weather events.	Excessive Rain, Flood
EVR-6	Develop and implement fuels reduction projects to reduce wildfire hazard on Tribal lands.	Elk Valley Rancheria	Ongoing	Yes	EVR-1 Implement a tribal-managed program to reduce wildfire risk through vegetation thinning, brush clearing, and defensible space creation around homes and critical infrastructure. This includes clearing 100 feet around buildings, removing dead trees, and conducting fuel breaks in strategic zones.	Wildfire
EVR-7	Develop a Continuity of Operations Plan and Continuity of Government Plan to sustain reliable operations and facilities during and after a disaster.	Elk Valley Rancheria	Ongoing	Yes	EVR-10 Develop a Continuity of Operations Plan and Continuity of Government Plan to sustain reliable operations and facilities during and after a disaster.	All Hazards

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
EVR-8	Increase Tribal member knowledge of natural disaster and preparedness through the use of educational tools such as social media, articles and links to information on the Tribal website and newsletter, and through providing preparedness trainings and events.	Elk Valley Rancheria	Ongoing	No	-	-
EVR-9	Develop programs that specifically assist Tribal Elders and vulnerable populations in the event of a natural disaster such as stockpiling N95 masks, purchasing an ADA capable van for evacuation, etc.	Elk Valley Rancheria	Ongoing	No	-	-
EVR-10	Develop a Post Disaster Recovery and Debris Management Plan.	Elk Valley Rancheria	Ongoing	Yes	EVR-11 Develop a Post Disaster Recovery and Debris Management Plan.	All Hazards
EVR-11	Identify and pursue strategies to increase adaptive capacity to climate resiliency including the development of a vulnerability and adaptation plan.	Elk Valley Rancheria	In Progress – Adaptation Plan to be completed in 2025	No	-	-

6.9.2 Additional Mitigation Efforts

In addition to the mitigation actions completed in Table 6-10, Elk Valley Rancheria identified the following mitigation efforts completed since the last HMP:

- The Elk Valley Tribal Fuel Mart was established to assist the community by ensuring uninterrupted fuel distribution. The facility is equipped with a backup generator, allowing it to remain operational during power outages.
- The Tribe has partnered with the City of Crescent City to rehabilitate the Amador Water Tank, enhancing local infrastructure and ensuring long-term water storage capacity.
- The Tribe has partnered with the City of Crescent City for the installation of a surge tank to improve water system reliability and protect infrastructure from pressure fluctuations.
- The Tribe has implemented a Hazardous Fuels Reduction Project on tribal lands, to reduce wildfire risk, improve forest health, and protect nearby communities and cultural resources.
- The Tribe developed water infrastructure on the Martin Ranch property to support long-term community resilience.

DRAFT

- The Tribe partnered with Del Norte County and IHS for the Elk Valley Inflow and Infiltration project that aimed to identify and reduce unwanted stormwater and groundwater entering the wastewater system, improving system efficiency and preventing overflows.
- The Tribe participates in the Highway 101 Climate Resilience Planning to assess vulnerabilities and implement strategies that enhance the highway's ability to withstand climate impacts such as flooding, erosion, and extreme weather events.
- The Tribe conducts water quality testing under the Clean Water Act Section 106 grant program to monitor and protect surface water resources, ensuring compliance with environmental standards and safeguarding community health.
- The Tribe has installed new cybersecurity infrastructure to enhance data protection, safeguard critical systems, and improve overall network security.
- The Tribe has completed the installation of uninterruptible power supplies and generators to ensure continuous power availability for critical facilities during outages

6.9.3 Changes in Priorities

All the priorities remain the same as outlined in HMP 2021.

6.9.4 Proposed Hazard Mitigation Actions for the HMP Update

Elk Valley Rancheria participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 "Selecting Appropriate Mitigation Measures for Floodprone Structures" (March 2007)
- FEMA "Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards" (January 2013)

The action worksheets included at the end of this annex list the mitigation actions that Elk Valley Rancheria would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in tribal priorities.

Table 6-11 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 6-12 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

DRAFT

Table 6-11. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Drought	EVR-8, EVR-10, EVR-11	EVR-4, EVR-8	EVR-8	EVR-8
Earthquake	EVR-10, EVR-11	EVR-4, EVR-9	-	EVR-3, EVR-7
Extreme Heat	EVR-10, EVR-11	EVR-4, EVR-5	-	-
Excessive Rain	EVR-10, EVR-11	EVR-4, EVR-6	-	EVR-7
Extreme Wind	EVR-10, EVR-11	EVR-4	-	-
Flood	EVR-10, EVR-11	EVR-4, EVR-6, EVR-9	-	EVR-7
Landslide	EVR-10, EVR-11	EVR-4, EVR-9	-	EVR-3, EVR-7
Tsunami	EVR-2, EVR-10, EVR-11	EVR-4, EVR-9	-	EVR-2, EVR-7
Wildfire	EVR-10, EVR-11	EVR-4, EVR-9	EVR-1	EVR-7

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.

Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.

Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Table 6-12. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Cooling Center	Medium	High	3	1-5 years	7.6	High
Road Closure Notification System	Medium	High	2	1-5 years	7.4	High
Continuity Plans	Low	Medium	1	1-5 years	7.2	High
Post-Disaster Plans	Low	Medium	1	1-5 years	7.2	High
Water Conservation Program	Medium	Medium	5	1-5 years	7	Medium
Flooded Culverts	High	High	4	1-5 years	6.8	Medium
Backup Power	High	High	3	1-5 years	6.6	Medium
Wildfire Risk Reduction	High	High	2	1-5 years	6.4	Medium
Earthquake Education Campaign	Medium	Medium	1	1-5 years	6.2	Medium
Structures in Hazard Areas	High	High	3	1-10 years	5.6	Medium
Tsunami Preparedness Strategy	High	Medium	2	1-5 years	5.4	Medium

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

DRAFT

6.9.5 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

EVR-1 Wildfire Risk Reduction

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☐Landslide ☐Tsunami ☒Wildfire
Description of the Problem:	The Elk Valley Rancheria is located in a wildfire prone region of Del Norte County, California. With rising temperatures, prolonged drought, and increased vegetation density, the risk of severe wildfires threatening tribal housing, cultural resources, and infrastructure has intensified. Limited ingress and egress routes further increase vulnerability during evacuation events. In 2020, 2022, and 2023 nearby wildfires came close to tribal lands, and we had several tribal members evacuated due to the fires.	
Description of the Solution:	Implement a tribal-managed program to reduce wildfire risk through vegetation thinning, brush clearing, and defensible space creation around homes and critical infrastructure. This includes clearing 100 feet around buildings, removing dead trees, and conducting fuel breaks in strategic zones.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program (HMGP) Bureau of Indian Affairs (BIA) Wildland Fire Management Program CAL FIRE Forest Health Grant Program	
Implementation Timeline:	1-5 years. The Tribe is already taking steps on hazardous fuels reduction and defensible space on Tribal lands but this is an ongoing project that should be conducted annually.	
Objectives Met:	1,4	
Benefits:	The benefit of avoiding wildfire damages (evacuation, home loss, cultural site destruction) outweighs the cost of proactive fuel reduction. Implementing this program reduces the probability of catastrophic loss and ensures quicker response time during emergencies.	
Impact on Socially Vulnerable Populations:	Wildfires pose a disproportionate threat to socially vulnerable populations within the Elk Valley Rancheria, California, including elders, low-income households, individuals with disabilities, and those without access to transportation. Many residents rely on a single evacuation route, and power outages can impair communications, refrigeration for medications, and access to emergency services.	
Impact on Future Development:	Wildfire risk has a direct influence on future development planning within Elk Valley Rancheria. Without proactive mitigation, increased development could amplify exposure to wildfire hazards, strain emergency resources, and place tribal residents and infrastructure in harm's way. Key Fire Impacts on Future Development: • Land Use Restrictions: Areas identified as high wildfire hazard zones may become unsuitable or restricted for residential or community development unless additional mitigation (e.g., fuel breaks, fire-resistant construction) is implemented. • Increased Development Costs: Builders and the Tribe may face higher costs due to stricter building codes, insurance premiums, and the need for defensible space, fire-resistant materials, and infrastructure hardening. • Evacuation and Access Planning: New developments will require careful consideration of ingress/egress routes, road widths, and emergency vehicle access due to wildfire evacuation risks. Fire mitigation may require rethinking subdivision layouts or road extensions. • Strain on Fire Response Capacity: Growth without corresponding investments in fire protection services could stretch limited resources. Wildfire mitigation helps offset this by reducing ignition potential and fire intensity in new development areas.	

DRAFT

Impact on Critical Facilities/Lifelines:	Wildfires pose a severe threat to critical facilities and lifelines that are essential for Elk Valley Rancheria's safety, emergency response, and continuity of services. A significant fire event could cause physical damage, operational disruptions, or total service loss, particularly in a region with limited emergency access and rural infrastructure. At-Risk Critical Facilities • Tribal Administration Offices – Loss would disrupt governance and coordination during emergencies. • Sam Lopez Community Center – Serves as a gathering point and emergency shelter; must remain operational during crises. • Elk Valley Tribal Fuel Mart – Provides fuel during power outages and supports emergency generator capacity. • Elk Valley Casino – Provides food to the community during power outages and supports emergency generator capacity. • Water Infrastructure (Martin Ranch Property) – Wildfire could damage pump stations, tanks, and pipelines, cutting off potable water.	
Impact on Capabilities:	Energy – fire threatens power lines and transformers; outages disrupt critical systems. Water – Wildfire can damage water delivery and contaminate supplies through ash and runoff. Communications- Burned telecom lines and cell towers interrupt emergency alerts and coordination. Transportation – Evacuation routes can be cut off by fire or debris, isolating facilities and residents. Health and Medical – Air quality and facility closures compromise care for vulnerable residents. Safety and Security – Fire-damaged roads and facilities slow fire response, law enforcement and EMS.	
Climate Change Considerations:	Increased temperatures- More hot days and heatwaves accelerate vegetation drying, increasing ignition potential. Longer Droughts – Reduced soil and fuel moisture make wildfire spread faster and burn more intensely. Shifting Precipitation Patterns – More intense winter rains followed by dry summers lead to greater vegetation growth. Wind Events- Climate driven shifts may increase high wind events, further exacerbating fire spread. Dry Lightning- in August 2023 Del Norte County was affected by the Smith River Complex Fire which was started by approximately 150 lightning strikes that ignited multiple fires which eventually merged into the Smith River Complex, burning over 30,000 acres.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☒Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

EVR-2 Tsunami Preparedness Strategy

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services, FEMA	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☐Landslide ☒Tsunami ☐Wildfire
Description of the Problem:	Elk Valley Rancheria is located less than 2 miles from the Pacific Ocean and is vulnerable to tsunamis generated by earthquakes along the Cascadia Subduction Zone. A major offshore earthquake could generate a tsunami that impacts the nearby Crescent City harbor area within 10–30 minutes, causing flooding, infrastructure damage, and significant threat to life and tribal cultural assets. Historical events, such as the 1964 Alaska earthquake tsunami, caused catastrophic damage in Crescent City, including 11 deaths and destruction of most of the downtown harbor area—only a few miles from tribal lands.	
Description of the Solution:	Develop and implement a tsunami-specific emergency preparedness strategy that includes: • Community education campaigns and drills • Coordination with Del Norte County and NOAA for alert systems	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program (HMGP) National Tsunami Hazard Mitigation Program (NTHMP) Tribal Homeland Security Grants Bureau of Indian Affairs (BIA) Emergency Management Grants NOAA Tsunami Ready Program Support	
Implementation Timeline:	1-5 years. The Tribe is already taking steps on outreach to Tribal members. The Tribe also installed an electronic sign to assist with getting messages out to the community. Drills and training should continue annually with the County.	
Objectives Met:	1,3	
Benefits:	Lives saved through early evacuation and reduced injury/damage due to preparedness far outweigh the relatively low cost of signage, outreach, and planning.	
Impact on Socially Vulnerable Populations:	Tsunamis pose a disproportionate risk to socially vulnerable populations in Elk Valley Rancheria, particularly: • Elders with limited mobility • Low-income households without personal vehicles • Children and youth, especially during school hours • Individuals with disabilities or medical needs • Non-English speakers or those with limited access to emergency alerts	
Impact on Future Development:	Tsunami risk directly affects land use, infrastructure investment, and long-term planning decisions for future development in Elk Valley Rancheria. As a coastal community within tsunami evacuation zones, the Tribe must consider this hazard when planning housing, critical facilities, and community services.	

DRAFT

Impact on Critical Facilities/Lifelines:	Tsunamis pose a severe and sudden threat to Elk Valley Rancheria's critical facilities and essential lifeline services. Due to the Tribe's proximity to the Pacific coastline and low-lying terrain, a tsunami generated by a Cascadia Subduction Zone earthquake could cause rapid, catastrophic flooding within minutes. At-Risk Critical Facilities • Tribal Administration Offices – Loss would disrupt governance and coordination during emergencies. • Sam Lopez Community Center – Serves as a gathering point and emergency shelter; must remain operational during crises. • Elk Valley Tribal Fuel Mart – Vital for backup power and evacuation support. • Elk Valley Casino – Vital for backup power and evacuation support.	
Impact on Capabilities:	Energy – flooding of substations or generators may cut off electricity for days or weeks. Water – Wells, pumps, and water tanks may be contaminated or physically damaged. Communications- Damage to cell towers or lines may disable alerts and emergency communications. Transportation- Roads near the coast may flood or be destroyed, impeding evacuation and response. Health and Medical – Limited access to clinics or shelters may leave injured or vulnerable residents without care. Safety and Security – Inundation may isolate law enforcement and responders form impacted areas.	
Climate Change Considerations:	Sea Level Rise - Rising sea levels exacerbate tsunami impacts by increasing baseline water levels, causing greater inundation depth and inland flooding during tsunami events. Even moderate tsunamis may reach farther inland, threatening additional tribal lands and infrastructure. Sea level rise also contributes to higher groundwater tables, increasing flood risk. Increased Storm Surge and Coastal Erosion- Climate driven intensification of storms and wave action accelerates coastal erosion, potentially degrading natural barriers that can reduce tsunami wave energy. Loss of dunes, wetlands, and other buffers reduces protection for low-lying tribal areas. Changing Precipitation Patterns- Increased rainfall variability can affect watershed conditions, potentially impacting emergency response routes and recovery after tsunami flooding.	
Mitigation Category	☒Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

EVR-3 Earthquake Education Campaign

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☒Landslide ☐Tsunami ☐Wildfire
Description of the Problem:	Elk Valley Rancheria is located in a seismically active region of Northern California near the Cascadia Subduction Zone. A major earthquake could result in structural damage, disruption of utilities, injuries, and loss of life. Older buildings, critical facilities, and lifelines are particularly vulnerable due to outdated seismic standards and proximity to faults such as the Gorda and Cascadia faults.	
Description of the Solution:	Develop and implement a tribal-wide Earthquake Preparedness and Response Education Campaign. This includes: • Workshops and drills for households and staff • Earthquake safety kits for elders and families • “Drop, Cover, and Hold On” training • Multilingual materials for outreach • Coordination with local schools and emergency responders	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Pre-Disaster Mitigation (PDM) Tribal Homeland Security Grant Program (THSGP) CDC Public Health Emergency Preparedness	
Implementation Timeline:	1-5 years	
Objectives Met:	3	
Benefits:	The primary benefit of this mitigation action is a more informed, prepared, and resilient Tribal community that can respond effectively to earthquakes, reducing injuries, confusion, and post-disaster trauma.	

DRAFT

Impact on Socially Vulnerable Populations:	This mitigation action will have a strong positive impact on socially vulnerable populations within Elk Valley Rancheria. These groups such as elders, individuals with disabilities, low-income households, single-parent families, and non-English speakers often face greater risk during and after earthquakes due to limited resources, mobility, or access to information. Key Benefits: • Targeted Outreach: Materials will be adapted for elders, people with disabilities, and those with limited English proficiency (e.g., visual aids, translated materials, plain-language instructions). • Accessible Training Events: Events will be held at familiar, accessible community locations with transportation assistance if needed, ensuring full participation. • Distribution of Earthquake Kits: Emergency kits prioritized for low-income households and elders will reduce inequities in disaster readiness. • Improved Self-Sufficiency: Education empowers vulnerable residents to make informed decisions, increasing their ability to protect themselves and assist others during a disaster. • Reduced Dependence on Emergency Services: A more prepared population reduces demand on limited emergency services during the immediate response phase, allowing first responders to focus on the most critical needs. • Inclusive Planning: Vulnerable populations will be engaged in planning activities, ensuring that their specific needs and voices are reflected in emergency protocols.
Impact on Future Development:	Supports long-term resilience and encourages new development to follow enhanced seismic standards.
Impact on Critical Facilities/Lifelines:	Indirect but important. Trained staff and residents can better respond to protect facilities during and after seismic events.
Impact on Capabilities:	The proposed education campaign will significantly enhance Elk Valley Rancheria's capabilities to prepare for, respond to, and recover from an earthquake. Specific impacts include: • Improved Individual and Household Preparedness: Residents will gain knowledge on evacuation procedures, home safety measures, and emergency communication plans. This reduces panic and increases self-reliance during a disaster. • Enhanced Emergency Response Coordination: By engaging Tribal departments and local agencies in drills and training, the Tribe will improve inter-agency coordination and clarify roles and responsibilities in earthquake scenarios. • Stronger Community Engagement: Regular outreach builds trust, promotes participation, and increases the likelihood that residents will follow instructions during emergencies. • Capacity Building for Tribal Staff and Volunteers: Training equips Tribal employees, health workers, and volunteers with skills in first aid, search and rescue basics, and incident command support. • Establishment of Institutional Knowledge: The program creates materials and protocols that can be adapted or expanded in future disasters. These can become part of new employee orientations and annual safety briefings. • Improved Recovery Readiness: Educated residents and staff are better prepared to assess damage, locate aid resources, and support community-based recovery efforts post-event.
Climate Change Considerations:	While earthquakes are not climate-driven, a prepared and educated population is better equipped to handle overlapping disasters (e.g., earthquake followed by wildfire or flooding).

DRAFT

Mitigation Category	☐Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

EVR-4 Backup Power

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services, FEMA	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Extreme wind events, including coastal windstorms and winter storms, frequently lead to power outages in Del Norte County. When the grid fails, Tribal critical facilities such as the community center, health clinic, and emergency shelter are at risk of becoming non-operational. Without backup power, the Tribe's capacity to provide medical support, emergency shelter, heating, refrigeration, and communications is severely diminished, especially for elders and medically vulnerable individuals.	
Description of the Solution:	Backup Power for Critical Facilities, such as the installations of solar plus battery or generator backup systems at critical facilities like the Tribal Government building, community center, emergency shelter, Elk Valley UIHS, Elk Valley Head Start, Elk Valley Casino, and Elk Valley Tribal Fuel Mart.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program (HMGP) US Department of Energy Tribal Energy Program Bureau of Indian Affairs (BIA) Tribal Climate Resilience Program	
Implementation Timeline:	1-5 years. Planning and engineering 6-9 months and Procurement and Installation 9-18 months	
Objectives Met:	1,2,5	
Benefits:	Saves lives and prevents medical emergencies during outages, reduces emergency costs and sheltering burden, increases Tribal self-sufficiency and reduces dependence on outside aid and long-term utility savings with solar + storage systems	
Impact on Socially Vulnerable Populations:	High. Ensures that elders, individuals with medical devices, and low-income families have access to climate controlled shelter, medical services, and food storage during outages.	
Impact on Future Development:	Promotes integration of backup power systems in new facility construction and Tribal energy resilience planning.	
Impact on Critical Facilities/Lifelines:	Directly enhances the resilience of Tribal lifelines power, health, shelter, and communication by ensuring these services remain functional during grid failures.	
Impact on Capabilities:	Enables continuous operation of emergency services, improves ability to shelter-in-place, reduces disruption to healthcare and food systems, and Builds long-term Tribal energy infrastructure capacity.	
Climate Change Considerations:	Climate change is expected to increase the frequency and severity of storms, intensifying wind impacts and power outages. Solar + battery systems offer renewable, sustainable energy resilience.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

EVR-5 Cooling Center

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐Drought ☐Earthquake ☒Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☐Landslide ☐Tsunami ☐Wildfire
Description of the Problem:	Due to climate change, Northern California, including Elk Valley Rancheria is experiencing longer, more intense heat waves. Prolonged extreme heat events can cause heatstroke, dehydration, and exacerbate chronic health conditions, especially among elders, young children, and those with limited access to cooling. Many Tribal members live in homes without air conditioning or energy-efficient insulation, increasing heat exposure risk.	
Description of the Solution:	Establish a permanent Cooling Center Program and distribute home cooling support for vulnerable residents. This might include: designating and retrofitting existing buildings (e.g., community center) as official cooling centers with air conditioning, water, cots, and medical supplies, offering transportation to cooling centers during high heat events, distributing portable air conditioning units or fans and weatherization kits for elders and at-risk households	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA HMGP Bureau of Indian Affairs (BIA) Tribal Climate Resilience Program Indian Health Service Community Health Grants Department of Energy Weatherization Assistance Program Local utility rebates or assistance programs	
Implementation Timeline:	1-5 years. Planning and retrofitting 3-6 month and program launch and supply distribution seasonal	
Objectives Met:	1,2,3	
Benefits:	Prevents heat-related illness and death, reduces emergency room visits and healthcare burden, promotes community wellness and equity, and builds long-term infrastructure for heat adaptation.	
Impact on Socially Vulnerable Populations:	Direct and significant. The program focuses on protecting elders, low-income households, medically fragile individuals, and those without adequate cooling or transportation. Provides safe cooling locations and equipment to those most at risk, reduces health emergencies and utility stress for fixed income households, and promotes equity in assess to heat protection and emergency services.	
Impact on Future Development:	Encourages heat-resilient building designs and consideration of passive cooling features in new construction.	
Impact on Critical Facilities/Lifelines:	Ensures the community center and public buildings remain accessible, safe, and functional as refuge sites during prolonged heat emergencies.	
Impact on Capabilities:	Enhances public health protection, strengthens emergency preparedness infrastructure, improves resilience of housing and community facilities, and builds awareness of heat hazards and climate risks.	
Climate Change Considerations:	This action directly addresses a growing climate hazard: rising temperatures and more frequent heat waves. It builds adaptive capacity for both current and future extreme heat conditions.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	High	

DRAFT

EVR-6 Flooded Culverts

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☒Excessive Rain ☐Extreme Wind	☒Flood ☐Landslide ☐Tsunami ☐Wildfire
Description of the Problem:	Elk Valley Rancheria is located in a low lying coastal area vulnerable to flooding from heavy rainfall, nearby stream overflow, and storm surge events. Several residential areas and Tribal facilities are located near flood prone zones. These events threaten housing, disrupt transportation, damage infrastructure, and increase health risks due to mold and water contamination. With climate change, sea level rise and more intense storms are expected to worsen flood frequency and severity. Several roads and access points within Elk Valley Rancheria experience flooding during heavy rainfall due to undersized, clogged, or aging culverts. These blockages lead to overland flow, road washouts, and limited access to housing and critical facilities. As storm intensity increases due to climate change, existing culvert systems are no longer adequate for peak stormwater runoff.	
Description of the Solution:	Protect tribal transportation infrastructure from natural hazards, reduce roadway flooding and access disruption, ensure safe evacuation and emergency response routes and improve infrastructure resilience to extreme weather events.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA HMGP US Department of Transportation Bureau of Indian Affairs (BIA) Road Maintenance or IRR Program EPA Clean Water Infrastructure Grants	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,3,5	
Benefits:	Avoids emergency road closures and costly repairs, reduces flood damage to Tribal roads and adjacent properties, enhances long-term infrastructure reliability and safety, and may improve ecological outcomes with proper drainage design.	
Impact on Socially Vulnerable Populations:	High. Many low-income and elder households depend on these roadways for safe access to healthcare, food, and emergency services. Preventing road closures protects lives and reduces isolation during storms. Ensures safe access for elders, persons with disabilities, and households without alternative transportation, reduces the risk of being stranded during emergencies, and increases equity in infrastructure investments.	
Impact on Future Development:	Improves road infrastructure to support future Tribal housing or facility expansion, while reducing risk to new construction.	
Impact on Critical Facilities/Lifelines:	Protects access routes for emergency responders, utilities, and evacuation paths, ensuring continuity of operations during flood events.	
Impact on Capabilities:	Strengthens flood protection infrastructure, reduces recurring road damage and emergency repair costs, enhances emergency preparedness and response and supports sustainable Tribal infrastructure management	
Climate Change Considerations:	Culverts will be sized based on future rainfall intensity projections, supporting long-term resilience to climate-driven flood increases.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

EVR-7 Road Closure Notification System

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Road closures due to flooding, landslides, or storm damage are common in Del Norte County and can isolate portions of the Elk Valley Rancheria. Without timely notification, residents, especially elders or those without smartphones, may unknowingly travel into blocked or hazardous areas. Lack of official detour information hinders access to emergency services, Tribal facilities, and shelters.	
Description of the Solution:	Develop a Tribal Road Closure Notification System with Alternative Route Planning. This action includes: • Road status notification system using texts, emails, LED signage, social media, and website alerts • Real-time coordination with Tribal police and emergency personnel • Printed and digital maps showing safe detour routes for common closure scenarios • Pre-positioned signage and barricades for use during events • Outreach to ensure residents know how to subscribe to alerts or access road status updates	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA HMGP Bureau of Indian Affairs (BIA) Transportation or Tribal Climate Resilience Program California Office of Emergency Services	
Implementation Timeline:	1-5 years	
Objectives Met:	2,3	
Benefits:	Improve emergency communication infrastructure, maintain safe access to facilities and housing, reduce transportation risk during hazard events, and build trust in Tribal emergency response systems. Prevents travel into danger zones, supports coordinated, efficient response, improves quality of life and hazard preparedness, and saves time, fuel, and emergency service costs.	
Impact on Socially Vulnerable Populations:	High. This system is critical for elders, low-income residents, and people without GPS or mobile app access. It ensures inclusive access to vital hazard information. Provides early warning and detour info to residents without smartphones or vehicles, ensures safer, faster evacuation for those who need assistance, and supports public safety for the whole community.	
Impact on Future Development:	Improves preparedness for new housing clusters and facilities by ensuring they are incorporated into closure/detour planning.	
Impact on Critical Facilities/Lifelines:	Enables continued access to the clinic, emergency shelter, water tanks, and utility access roads during disasters. Prevents delays in emergency response.	
Impact on Capabilities:	Enhances communication and response coordination, improves transportation safety and reliability, builds community confidence and preparedness, and reduces risk of injury or stranding.	
Climate Change Considerations:	As extreme weather increases, road closures due to flood and storm events will become more frequent. This system supports long-term resilience and adaptive response.	

DRAFT

Mitigation Category	☐Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	High	

DRAFT

EVR-8 Water Conservation Program

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☒Drought ☐Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☐Flood ☐Landslide ☐Tsunami ☐Wildfire
Description of the Problem:	Drought has the potential to impact water availability for residents and agricultural enterprises.	
Description of the Solution:	Develop a Tribal Water Conservation Program. Key actions include: • Water Conservation: Encouraging efficient water use through education, incentives, and updated plumbing standards. • Infrastructure Improvements: Repairing aging pipes to reduce water loss and expanding storage capacity through reservoirs or underground recharge. • Alternative Water Sources: Implementing rainwater harvesting, stormwater reuse, greywater systems, and water recycling for non-potable uses. • Drought-Resilient Landscaping: Promoting native and drought-tolerant vegetation in public and private spaces. • Agricultural Adaptation: Supporting farmers with tools like soil moisture sensors, drip irrigation, and drought-tolerant crop varieties. • Drought Planning and Policy: Developing local drought contingency plans, enforcing water restrictions during shortages, and integrating drought resilience into long-term land use and water management policies.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA HMGP Bureau of Indian Affairs (BIA) Transportation or Tribal Climate Resilience Program California Office of Emergency Services	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,3,4,5	
Benefits:	Implementing drought mitigation strategies provides significant short- and long-term benefits to communities, ecosystems, and local economies.	
Impact on Socially Vulnerable Populations:	High. Socially vulnerable populations—such as the elderly, low-income households, communities of color, people with disabilities, immigrants, and Indigenous communities—often face disproportionate impacts from drought due to limited access to resources, services, and adaptive capacity.	
Impact on Future Development:	High. Socially vulnerable populations—such as the elderly, low-income households, communities of color, people with disabilities, immigrants, and Indigenous communities—often face disproportionate impacts from drought due to limited access to resources, services, and adaptive capacity.	
Impact on Critical Facilities/Lifelines:	N/A	
Impact on Capabilities:	Drought can significantly disrupt critical lifelines—the essential systems that support public safety, health, and economic continuity. Prolonged water shortages and heat-related stress can strain or degrade the functionality of these systems, leading to cascading impacts across entire communities.	

DRAFT

Climate Change Considerations:	As global temperatures rise, changes in precipitation patterns, reduced snowpack, and increased evaporation rates will amplify existing water stress and complicate long-term drought planning and recovery.	
Mitigation Category	☒Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☒Natural Systems Protection (NSP) ☒Education and Awareness Programs (EAP)
Priority	High	

DRAFT

EVR-9 Structures in Hazard Areas

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Elk Valley Rancheria has structure located in hazard areas that are at risk from natural hazards.	
Description of the Solution:	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that are located in high or medium ranked hazard areas.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA HMGP Bureau of Indian Affairs (BIA) Tribal Climate Resilience Program	
Implementation Timeline:	1-10 years	
Objectives Met:	3,4,5	
Benefits:	By re-locating or retrofitting structures to make them more resilient to natural hazards, this action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	This action will benefit those who are unable or unwilling to evacuate by making their homes and businesses more secure and will reduce recovery costs on economically constrained people and businesses.	
Impact on Future Development:	Encourages the construction of new development outside of hazard areas.	
Impact on Critical Facilities/Lifelines:	Relocating or retrofitting critical facilities makes them more resilient to natural hazard impacts.	
Impact on Capabilities:	By providing stronger structures, responders will be able to work more consistently and maintain services, even during natural hazard events.	
Climate Change Considerations:	This action prepared for a future where hazard events are more frequent and intense.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

EVR-10 Continuity Plans

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Elk Valley does not have a Continuity of Operations Plan or Continuity of Governance Plan.	
Description of the Solution:	Develop a Continuity of Operations Plan and Continuity of Government Plan to sustain reliable operations and facilities during and after a disaster.	
Estimated Cost:	Low	
Potential Funding Sources:	FEMA HMGP Bureau of Indian Affairs (BIA) Tribal Climate Resilience Program	
Implementation Timeline:	1-5 years	
Objectives Met:	4	
Benefits:	Developing a COOP and COG will have a long-term reduction of risk to life and property.	
Impact on Socially Vulnerable Populations:	This action improves the likelihood that the Tribe will be available to assist residents during natural hazard events.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will identify alternate facilities that could house government operations during an emergency and may result in additional facilities being identified as critical.	
Impact on Capabilities:	By providing stronger continuity policies and procedures, responders will be able to work more consistently and maintain services, even during natural hazard events.	
Climate Change Considerations:	N/A	
Mitigation Category	☒Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	High	

DRAFT

EVR-11 Post-Disaster Plans

Lead Agency:	Elk Valley Rancheria, California	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Elk Valley does not have a Post Disaster Recovery or Debris Management Plan.	
Description of the Solution:	Develop a Post Disaster Recovery and Debris Management Plan.	
Estimated Cost:	Low	
Potential Funding Sources:	FEMA HMGP Bureau of Indian Affairs (BIA) Tribal Climate Resilience Program	
Implementation Timeline:	1-5 years	
Objectives Met:	2	
Benefits:	Developing post-disaster plans will have a long-term reduction of risk to life and property.	
Impact on Socially Vulnerable Populations:	Recovery plans will identify the roles and responsibilities to get vulnerable populations back to normal after a disaster.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	N/A	
Impact on Capabilities:	Recovery plans outline recovery policies and procedures that expedite the recovery process.	
Climate Change Considerations:	N/A	
Mitigation Category	☒Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	High	

DRAFT

7. GASQUET COMMUNITY SERVICES DISTRICT

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Gasquet Community Service District with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Gasquet Community Service District, describes who participated in the planning process, assesses Gasquet Community Service District's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

7.1 HAZARD MITIGATION PLANNING TEAM

The Gasquet Community Service District identified primary and alternate HMP points of contact and developed this plan over the course of several months. Steven Kasmer represented the community on the Del Norte County HMP Planning Partnership and Steering Committee and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 7-1 summarizes District officials who participated in the development of the annex and in what capacity. Additional documentation of the District's planning activities through Planning Partnership meetings is included in Volume 1.

Table 7-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Steven Kasmar, Chair Address: 250 Middle Fork Road, Gasquet, CA 95543 Phone Number: (707) 457-3124 Email: gcsd1@outlook.com	Name/Title: John Angst, Supervisor Address: PO 86, Gasquet, CA, 95543 Phone Number: 707-457-3107 Email:

7.2 COMMUNITY PROFILE

The Del Norte County General Plan (2003) and Zoning Code guides land use decisions within the unincorporated portion of Del Norte County including the community of Gasquet. The Gasquet CSD generally contains rural residential and visitor serving commercial development and is surrounded by resource lands including the Six Rivers National Forest.

According to the Census, the total population in Del Norte County was 27,507 in 2000 and 28,610 in 2010. The population grew in Del Norte County at a rate of 4.0 percent between 2000 and 2010, or at an annual growth rate of 0.4 percent.

DRAFT

According to the U.S. Census, the 2022 population for Crescent City was 6,379, a 12.7 percent decrease from the 2010 Census. The Crescent City population has continued to decline, with the U.S. Census estimating the 2024 Crescent City population at 6,209, a 7.0 percent decrease.

7.2.1 Service Area and Trends

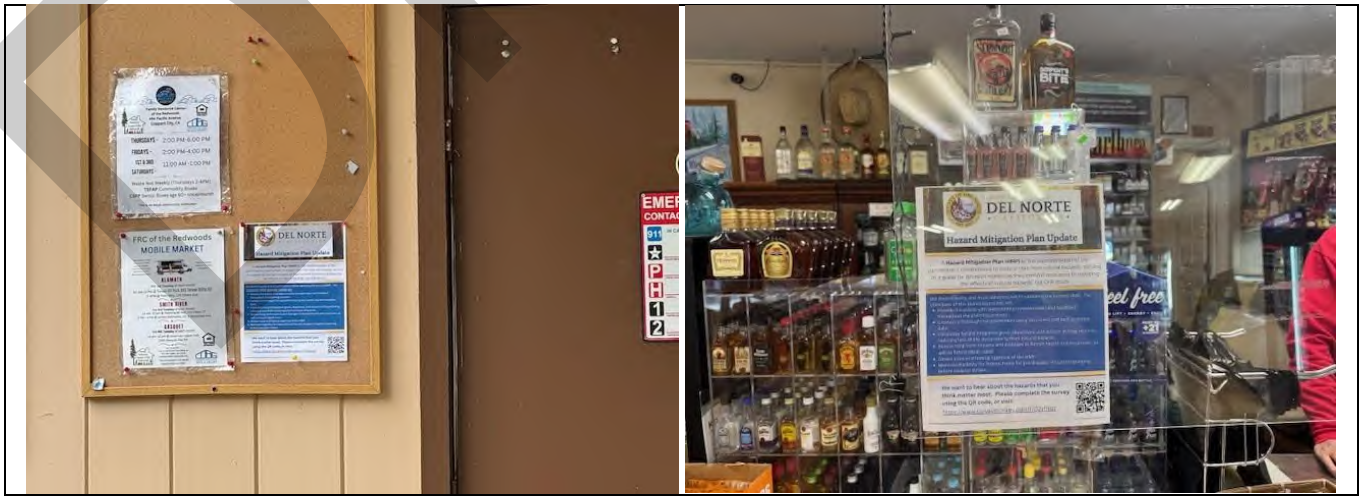
The Gasquet CSD provides water service for domestic use and fire protection to the unincorporated community of Gasquet. The District is located along U.S. Highway 199, approximately 376 miles north of San Francisco, 22 miles south of the Oregon border and 21 miles east of Crescent City. Covering approximately 1.78 square miles, the District is located within the Smith River National Recreation Area, bisected by the Wild and Scenic Smith River, which encompasses the largest undammed Wild and Scenic River watershed in the U.S., and is entirely surrounded by the Six Rivers National Forest. With only one incorporated city, Crescent City, most of the County's population exists in unincorporated communities that qualify as "disadvantaged".

7.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. In addition to that work, Gasquet Community Services District completed specific activities to collect input on hazards and vulnerability from the people the District serves. The public was invited to participate in the plan by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan. The public survey was shared through the local Facebook site to involve all members of the community.

In addition to that work, the District partnered with the County to post information about the HMP update at local businesses and community gathering areas, such as the Gasquet Market and the American Legion Hall. Figure 7-1 shows selected outreach efforts and Appendix A includes all outreach efforts.

Figure 7-1. Public Outreach by Gasquet CSD



DRAFT

7.3.1 Public Feedback Integration

Of the 196 responses to the public survey, 52 respondents reported that they received services from the District. These 52 respondents were extremely or very concerned about landslides and wildfires. They reported receiving emergency information through mass notifications, government websites and newsletters, public meetings, TV/radio, and Facebook. They expressed concern about the high risk for wildfires in Gasquet, connection to federal lands that enhance fire risk, defensible space, and communication during evacuations. The mitigation strategy was prioritized with these concerns and community limitations in mind.

7.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. In addition to that work, the District invited stakeholders to participate in the planning process. The following organizations were invited to participate by attending a Steering Committee meeting, responding to the stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan:

7.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Gasquet Neighbors Helping Neighbors
- Gasquet Volunteer Fire Department
- Del Norte Local Agency Formation Commission
- California Governor's Office of Emergency Services
- USDA Rural Development

7.4.2 Agencies that Have the Authority to Regulate Development

- Del Norte County Planning Division

7.4.3 Neighboring Communities

- Big Rock Community Services District
- HRC Community Services District
- Klamath Community Services District
- Smith River Community Services District

7.4.4 Representatives of Business, Academia, and Other Private Organizations

- Pacific Power
- Cal Air Life Flight
- Del Norte Unified School District

DRAFT

7.4.5 Nonprofit Organizations and Community-Based Organizations

- Gasquet Neighbors Helping Neighbors
- Gasquet American Legion

7.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Gasquet Community Services District performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Gasquet Community Services District to identify opportunities for integrating mitigation concepts into ongoing District procedures.

7.5.1 Planning and Regulatory Capability and Integration

As a special district in Del Norte County, the District follow County ordinances, codes, and regulations. Table 7-2 summarizes the planning and regulatory tools specific to Gasquet CSD.

7.5.2 Building Codes, Land Use, and Development

Gasquet Community Services District is a special district located in unincorporated Del Norte County. The District is subject to the Del Norte County and State of California building codes and land use regulations.

The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, building code, land use, and development capabilities are not applicable to the District.

DRAFT

Table 7-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Code/Ordinance/Resolution	Yes	Resolution September 6, 1968; Enabling Legislation: Community Service District Law, CA Government code 61000	County	Del Norte County Board of Supervisors
Resolution allows special district to be formed to supply potable water to district residents and street lighting services.				
Planning Documents				
Municipal Service Review	Yes	Gasquet Community Services District Municipal Service Review and Sphere of Influence Update, April 2016	District	Gasquet Community Services District
This Municipal Service Review and Sphere of Influence Update provides information about the services and boundaries of the Gasquet Community Services District. The report is for use by the Del Norte Local Agency Formation Commission (LAFCo) in conducting a statutorily required review and update process. This report provides LAFCo with a tool to study current and future public service conditions comprehensively and to evaluate organizational options for accommodating growth, preventing urban sprawl, and ensuring that critical services are provided efficiently. The report references the HMP when discussing the District's infrastructure at risk of seismic activity.				

7.5.3 Administrative and Technical Capability

Table 7-3 summarizes potential staff and personnel resources available to Gasquet Community Services District and their current responsibilities that contribute to hazard mitigation.

7.5.4 Fiscal Capability

The District's primary revenue sources include water fees and service fees (standby and hook-up fees). The District's primary operational expenditures are salaries, utilities, professional fees, and loan repayment. The District has consistently operated with excess revenues which are budgeted towards system upgrades and saved in capital improvement and emergency reserve accounts.

Table 7-4 summarizes financial resources available to Gasquet Community Services District.

7.5.5 Education and Outreach Capability

Table 7-5 summarizes the education and outreach resources available to Gasquet Community Services District.

DRAFT

Table 7-3. Administrative and Technical Capabilities

Resources	Available?	Comment
ADMINISTRATIVE CAPABILITY		
Planning Board	Yes	Gasquet CSD has a 5 Member Elected board
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	District employees
TECHNICAL/STAFFING CAPABILITY		
Planners or engineers with knowledge of land development and land management practices	Yes	On-call engineering consultants selected through requests for statements of qualifications; currently in contract negotiations; Resident surveyors and U.S. Forest Service experts
Engineers or professionals trained in building or infrastructure construction practices	Yes	Board of Directors wealth of experience; County resources; employees with hands-on experience
Planners or engineers with an understanding of natural hazards	Yes	Local Civil Engineers who act as consultants to the district
Personnel skilled or trained in GIS and/or Hazus applications	Yes	Local resident Surveyors available on contract basis
Surveyors	Yes	Local Surveyors available on consulting basis
Emergency manager	Yes	John Angst, General Manager
Grant writers	Yes	On-Call Engineering Firm contract currently working on a project (GHD)

Table 7-4. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	No
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	Yes (Water)
Impact fees for homebuyers or developers of new development/homes	Yes
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Other federal or state funding programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Perhaps

DRAFT

Table 7-5. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	No	
Personnel skilled or trained in website development	No	
Hazard mitigation information available on your website	No	
Social media for hazard mitigation education and outreach	No	
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Water District Board of Directors
Warning systems for hazard events	Yes	Posted Public Notices, Local Radio Announcements, Fire Dept. & Law Enforcement Radio, Telephone
Organizations that conduct outreach to socially vulnerable populations and underserved populations	Yes	Web Site Contains Link for assistance for Low-income families
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	Yes	Neighbors helping Neighbors hosts monthly meetings and trainings Del Norte Fire Council Fire Department & Law Enforcement Radio & County Office of Emergency Services

7.5.6 Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 7-6 summarizes the adaptive capacity for each identified hazard of concern and the District’s capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

DRAFT

Table 7-6. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Moderate
Extreme Heat	Moderate
Extreme Wind	Moderate
Excessive Rain	Moderate
Earthquake	Moderate
Flood	Moderate
Landslide	Moderate
Tsunami	Moderate
Wildfire	Moderate

7.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Gasquet Community Services District is a special district for unincorporated Del Norte County. The District does not participate in the NFIP directly. Therefore, all structures located within the District's jurisdiction were included in the Del Norte County assessment of NFIP-insured structures with repetitive loss. This information can be found in Section 2.6.

7.7 JURISDICTIONAL RISK ASSESSMENT

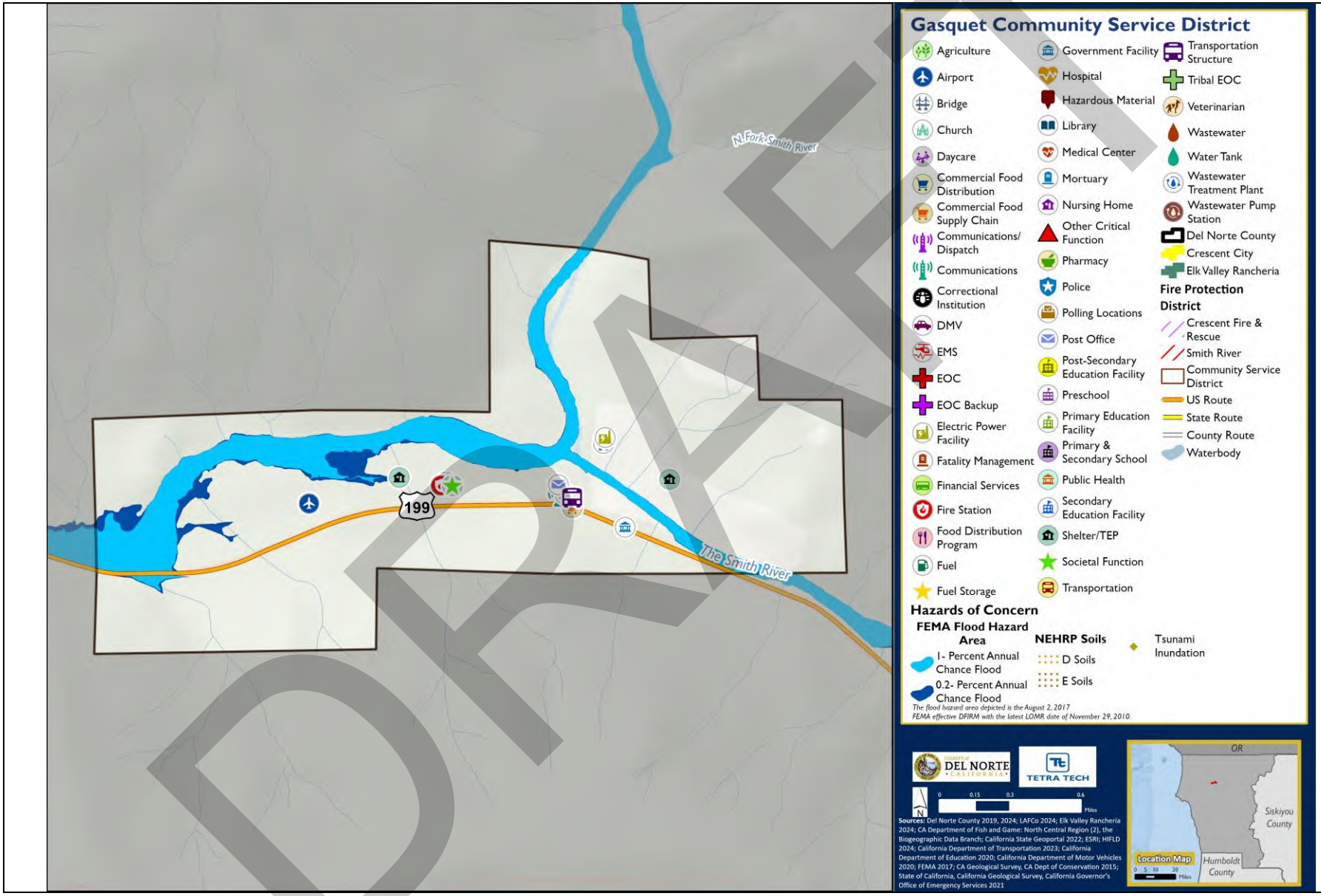
The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of Gasquet Community Services District's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

7.7.1 Hazard Area

Hazard area maps provided below illustrate the probable hazard areas impacted within the District are shown in Figure 7-2 and Figure 7-3. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Gasquet Community Services District has significant exposure. The maps show the location of potential new development, where available.

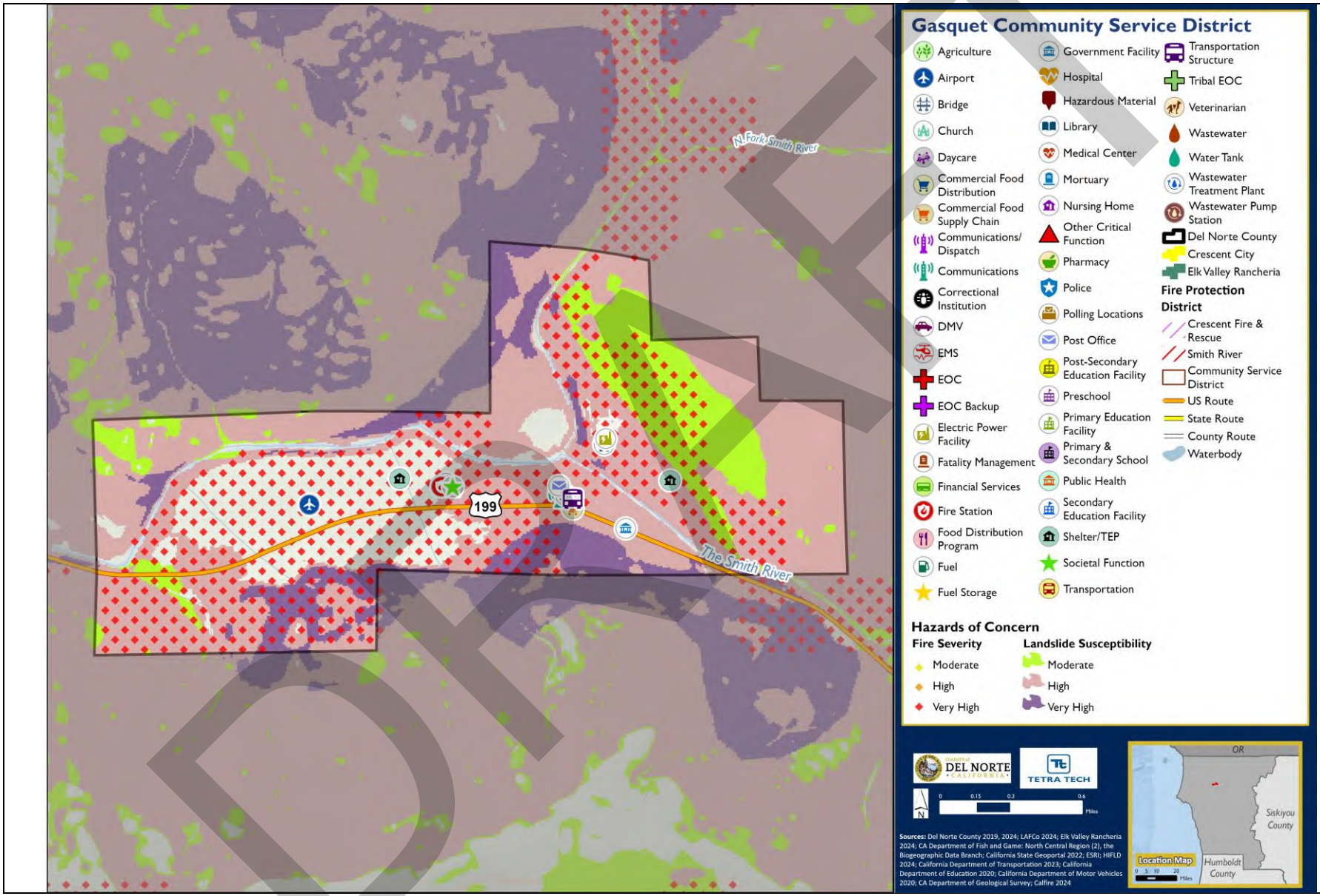
DRAFT

Figure 7-2. Gasquet Community Services District Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location



DRAFT

Figure 7-3. Gasquet Community Services District Wildfire and Landslide Hazard Area Extent and Location



DRAFT

7.7.2 Hazard Event History

The history of natural and non-natural hazard events in Gasquet Community Services District is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 7-7 provides details on loss and damage in Gasquet Community Services District during hazard events since the last hazard mitigation plan update.

Table 7-7. Hazard Event History in Gasquet Community Services District

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Gasquet Community Services District
February 24 to March 1, 2019	Severe Storm DR-4434-CA	Yes, Federal	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	As is with any large rain event, additional employee hours are required to deal with the increased water turbidity.
January 20, 2020 to May 11, 2023	Pandemic (COVID-19) DR-4482-CA EM-3428-CA	Yes, Federal	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023.	No Damage or Losses
September 4 to November 17, 2020	Wildfire	No	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	Increase employee hours due to demand for firefighting water needs. *Firefighting base set up at Ward Field in Gasquet)
December 27, 2022 to January 31, 2023	Flood DR-4683-CA CA23-1	Yes, State and Federal	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	No Damages or Losses

DRAFT

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Gasquet Community Services District
February 21 to July 10, 2023	Severe Storm, Flood DR-4699-CA EM-3592-CA CA23-3	Yes, State and Federal	Severe storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199.	No Damages or Losses
August 15, 2023	Wildfire CA23-5	Yes, State	Dry thunderstorms produced lightning strikes across the Six Rivers National Forest. 27 fires developed in the Gasquet Ranger District and grew rapidly, jumping Highway 199 causing a 3-week closure and resulting in the evacuation of the Town of Gasquet. The fire destroyed high-tension powerlines powering all of Del Norte County. The County was without power through August 25 when generators were installed. Main transmission lines were not repaired until September 10. The fire burned into October with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	Back up propane generator failed during event, Cost of Repair $1800. Deisel generator borrowed from Pacif Power to keep facility operational. District was operating close to 24/7 schedule to keep up with fire-fighting water demands. (District usually runs with a part time workforce) Two District Hydrants were damaged by forest service or other during event.
January 13, 2024	High Wind	No	An atmospheric river resulted in 3 to 7 inches of rainfall in roughly 8 to 10 hours. This resulted in the highest flows on the Mad River and Redwood Creek since the 1970s. Widespread creek flooding occurred in Del Norte and Humboldt with multiple homes damaged or destroyed.	Increased employee hours due to increased water turbidity and excessive ash in water. Increased use of chemical to counteract ash runoff from fire.
March 11, 2023	Semi Vehicle Accident	No	Semi Box Truck Hit US Post office, Gasquet Market. Fire hydrant sheared off. Telephone pole knocked down, Loss of Power,	Water shut off, Additional employee hours at district, Fire hydrant destroyed, Emergency Backup Generator deployed

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

7.7.3 Hazard Ranking

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for Gasquet Community Services District.

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is

DRAFT

based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. Gasquet Community Services District reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community.

Table 7-8 shows Gasquet Community Services District's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 7-8. Hazard Ranking

Hazard	Rank
Drought	Medium
Extreme Heat	Medium
Extreme Wind	Low
Excessive Rain	Low
Earthquake	Low
Flood	Low
Landslide	Low
Tsunami	Low
Wildfire	High

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

7.7.4 Identified Issues

After review of Gasquet Community Services District's hazard event history, hazard rankings, hazard location, and current capabilities, Gasquet Community Services District identified the following vulnerabilities within the community:

- The majority of the district is in the very high wildfire hazard area.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

7.8 CONDITIONS THAT MAY IMPACT RISK

7.8.1 Population Pattern Trends

The Gasquet CSD has a permanent resident population of approximately 775. The District will likely continue to develop at or less than the current county-wide rates of 0.4 percent per year, putting the District population at approximately 822 in 2030.

DRAFT

The bulk of Del Norte County's population exists in unincorporated communities that qualify as disadvantaged including the community of Gasquet. Gasquet CSD provides one of the three basic services - water service - to areas that are considered disadvantaged.

7.8.2 Changes in Land Use and Development

The Del Norte County General Plan (2003) and Zoning Code guides land use decisions within the unincorporated portion of Del Norte County including the community of Gasquet. The Gasquet CSD generally contains rural residential and visitor serving commercial development and is surrounded by resource lands including the Six Rivers National Forest.

Lands within the District are primarily designated rural residential, residential neighborhood, visitor-serving commercial, and public facility, with a small portion of timberlands and state and federal lands. The District is surrounded by resource lands, mostly timber and state and federal lands. Little change in actual or designated land uses within the District is anticipated over the next 20 years.

7.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

7.9.1 Past Mitigation Action Status

Table 7-9 indicates progress on the District's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

7.9.2 Additional Mitigation Efforts

In addition to the mitigation actions completed in Table 7-9, Gasquet Community Services District identified the following mitigation efforts completed since the last HMP:

- Working with the Del Norte Fire Council, The facility Brushed and Cleared land in company and private land in and around the facility
- Gasquet CSD hired limbers and tree removal of in and around our facility
- Gasquet CSD with a Grant from DWR is in the process of extending water service to a portion of the community that was without, and, installed fire hydrants

DRAFT

Table 7-9. Status of Previous Mitigation Actions

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
GCSD-1	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard areas, such as the GCSD Administrative Building.	GCSD Board of Directors	No Progress	Yes	GCSD-2 Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard, including but not limited to vulnerable pipe and other water treatment/delivery infrastructure. Secure foundations, install additional hydrants.	-
GCSD-2	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	GCSD Board of Directors	Complete	No	-	-
GCSD-3	Purchase generators for critical facilities and infrastructure that lack adequate back-up power including computer generated monitoring systems.	GCSD Plant Operation	District Plant currently owns a 1000 Gallon Propane Generator, The District Also Purchased Battery Backup for pour computer System.	Yes	GCSD-1 Increase the capacity and level of protection provided by District infrastructure to support clean drinking water delivery to customers. This includes, but is not limited to, water tanks, pipes for bridges and roads, and generators. Install shut-off valves/mechanisms to control loss of water & redirect distribution.	All Hazards
GCSD-4	Provide redundancy for critical functions such as well water vs. surface water, river pump system, SCADA monitoring, electrical backup, shut-off controls, hydrants, etc.	GCSD General Manager	Ongoing	No	-	-

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
GCSD-5	Obtain On-Call Engineering Consultant in effort to obtain grant funding for Hazard Mitigation Planning	GCSD	In Progress. District is currently working with "GHD" out of Eureka.	No	-	-
GCSD-6	Establish secondary water distribution/infrastructure/plant location/ground water vs surface water to ensure distribution to entire district in the event of catastrophic interruption to existing system.	GCSD General Manager	No Progress Funding is the major roadblock to implementation.	Yes	GCSD-3 Establish secondary water distribution/infrastructure/plant location/ground water vs surface water to ensure distribution to entire district in the event of catastrophic interruption to existing system.	-
GCSD-7	Institute warning system and develop evacuation plans for district customers in the event safe water distribution is threatened by hazardous events.	GCSD	No Progress Funding is the major roadblock to implementation.	Yes	GCSD-4 Institute warning system for district customers in the event safe water distribution is threatened by hazardous events. Develop a community outreach program to include website, NOAA weather radios to public and critical facilities, etc.	All Hazards
GCSD-8	Reduce exposure and vulnerability to the wildland fire hazard by creating and maintaining defensible space around structures and infrastructure, including the GCSD Administrative Building, partnering with U.S. Forest Service and Gasquet Fire Department.	GCSD General Manager	In Progress. Gasquet CSD wrote a letter of support to fund the Del Norte Fire Council. In return, the crews from the Council brushed the area. The district also hired outside Contractors to remove Hazard trees from around the district facility. District Personnel Brushed around facility	Yes	GCSD-5 Reduce exposure and vulnerability to the wildland fire hazard by creating and maintaining defensible space around structures and infrastructure including, but not limited to, the GCSD Administrative Building.	Extreme Heat, Extreme Wind, Wildfire
GCSD-9	Develop emergency communication system. Allow staff to communicate with Board and community at large.	GCSD Plant Operations	Not Completed. Funding is the major roadblock to implementation.	Yes	GCSD-6 Develop an evacuation plan and an emergency communication plan.	All Hazards

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
GCSD-10	Develop a community outreach program to include website, NOAA weather radios to public and critical facilities, etc.	GCSD General Manager	In Progress Neighbors helping Neighbors is the local organization	Yes	GCSD-4 Institute warning system for district customers in the event safe water distribution is threatened by hazardous events. Develop a community outreach program to include website, NOAA weather radios to public and critical facilities, etc.	All Hazards
GCSD-11	Purchase and distribute water purification equipment in the event of distribution problems/contamination.	GCSD Plant Operations	No Progress Funding is the major roadblock to implementation.	Yes	GCSD-7 Purchase and distribute water purification equipment in the event of distribution problems/contamination.	Earthquake, Excessive Rain, Extreme Wind, Flood, Landslide, Wildfire
GCSD-12	Install shut-off valves/mechanisms to control loss of water & redirect distribution.	GCSD Plant Operations	Completed	Yes	GCSD-1 Increase the capacity and level of protection provided by District infrastructure to support clean drinking water delivery to customers. This includes, but is not limited to, water tanks, pipes for bridges and roads, and generators. Install shut-off valves/mechanisms to control loss of water & redirect distribution.	All Hazards
GCSD-13	Extend water distribution system to “North Fork” community, to include hydrants / infrastructure.	GCSD Board of Directors	In Progress	No	Project to be completed in 2025	-
GCSD-14	Purchase and install efficient electronic meters to replace manually read meters to more accurately monitor water usage/loss.	GCSD General Manager	In Progress	Yes	GCSD-8 Purchase and install efficient electronic meters to replace manually read meters to more accurately monitor water usage/loss.	Earthquake, Excessive Rain, Extreme Wind, Flood, Landslide, Wildfire

DRAFT

7.9.3 Changes in Priorities

The priorities are similar to those from the previous update. With an aging infrastructure the district will continue to seek funding for necessary projects:

- Replacement of redwood water tanks
- Changing pipes across bridges
- Addressing aging infrastructure

7.9.4 Hazards Not Included in District Mitigation Strategy

Gasquet Community Services District did not include actions for Tsunami. The District's infrastructure is located outside of the tsunami hazard area.

7.9.5 Proposed Hazard Mitigation Actions for the HMP Update

Gasquet Community Services District participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 "Selecting Appropriate Mitigation Measures for Floodprone Structures" (March 2007)
- FEMA "Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards" (January 2013)

The action worksheets included at the end of this annex list the mitigation actions that Gasquet Community Services District would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in the District's priorities.

Table 7-10 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 7-11 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

7.9.6 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

Table 7-10. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Drought	GCSD-6	GCSD-1, GCSD-3	-	GCSD-4
Earthquake	GCSD-6	GCSD-1, GSCSD-2, GCSD-3, GCSD-7, GCSD-8	-	GCSD-4
Excessive Heat	GCSD-6	GCSD-1	GCSD-5	GCSD-4
Excessive Rain	GCSD-6	GCSD-1, GCSD-3, GCSD-7, GCSD-8	-	GCSD-4
Extreme Wind	GCSD-6	GCSD-1, GCSD-3, GCSD-7, GCSD-8	GCSD-5	GCSD-4
Flood	GCSD-6	GCSD-1, GCSD-3, GCSD-7, GCSD-8	-	GCSD-4
Landslide	GCSD-6	GCSD-1, GSCSD-2, GCSD-3, GCSD-7, GCSD-8	-	GCSD-4
Wildfire	GCSD-6	GCSD-1, GSCSD-2, GCSD-3, GCSD-7, GCSD-8	GCSD-5	GCSD-4

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.

Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.

Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Table 7-11. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Defensible Space	Medium	High	3	1-5 years	7.6	High
Infrastructure Hardening	High	High	4	1-5 years	6.8	Medium
Emergency Plans	Medium	Medium	3	1-5 years	6.6	Medium
Water Purification	Medium	Medium	3	1-5 years	6.6	Medium
Electronic Meters	Medium	Medium	3	1-5 years	6.6	Medium
Customer Communication	Medium	Medium	1	1-5 years	6.2	Medium
North Fork Extension	Low	Low	1	1-5 years	6.2	Medium
Mitigate Structures	High	High	3	1-10 years	5.6	Medium
Secondary Water Source	High	Medium	3	1-10 years	4.6	Low

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

DRAFT

GCSD-1 Infrastructure Hardening

Lead Agency:	Gasquet Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☒Drought ☒Earthquake ☒Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☐Tsunami ☒Wildfire
Description of the Problem:	District infrastructure is vulnerable to natural hazards, especially wildfires.	
Description of the Solution:	Increase the capacity and level of protection provided by District infrastructure to support clean drinking water delivery to customers. This includes, but is not limited to, water tanks, pipes for bridges and roads, and generators. Install shut-off valves/mechanisms to control loss of water & redirect distribution.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4,5	
Benefits:	This action will have an immediate reduction of risk to lives and property.	
Impact on Socially Vulnerable Populations:	This action will allow water service to remain functional during natural hazard events.	
Impact on Future Development:	Additional development may be possible with higher capacity infrastructure.	
Impact on Critical Facilities/Lifelines:	Loss of infrastructure would have an immediate impact on the water systems lifeline.	
Impact on Capabilities:	Strengthened water systems would allow the District to continue functioning during natural hazard events.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

GCSD-2 Mitigate Structures

Lead Agency:	Gasquet CSD	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☐ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The District's water tank, water lines, and other infrastructure are not mitigated against earthquakes and are located in areas at risk from landslides and wildfires.	
Description of the Solution:	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard, including but not limited to vulnerable pipe and other water treatment/delivery infrastructure. Secure foundations, install additional hydrants.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-10 years	
Objectives Met:	1,2,4	
Benefits:	Increase the capacity and resilience of the District's water system to ensure residents have access to clean drinking water when hazard events occur.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the water supply in the area for Del Norte and Tribal residents.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

GCSD-3 Secondary Water Source

Lead Agency:	Gasquet CSD	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☒ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	There is one primary water source that supplies the District.	
Description of the Solution:	Establish secondary water distribution/infrastructure/plant location/ground water vs surface water to ensure distribution to entire district in the event of catastrophic interruption to existing system.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-10 years	
Objectives Met:	1,2,4	
Benefits:	Increase the capacity and resilience of the District's water system to ensure residents have access to clean drinking water when hazard events occur.	
Impact on Socially Vulnerable Populations:	This action would prevent interruption of service for socially vulnerable populations.	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the water supply in the area for Del Norte and Tribal residents.	
Impact on Capabilities:	This action would allow the District to continue operating and providing water even if the primary source is damaged by a natural hazard event.	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Low	

DRAFT

GCSD-4 Customer Communication

Lead Agency:	Gasquet CSD	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☒ Drought ☒ Earthquake ☒ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The District does not have an effective way to distribute warnings and procedures to customers.	
Description of the Solution:	Institute warning system for district customers in the event safe water distribution is threatened by hazardous events. Develop a community outreach program to include website, NOAA weather radios to public and critical facilities, etc.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	3	
Benefits:	This action would allow for faster communication with customers when water quality is compromised.	
Impact on Socially Vulnerable Populations:	This action would assist socially vulnerable populations with understanding when water is not safe to drink.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action would support the water systems lifeline.	
Impact on Capabilities:	This action would allow the District to quickly disseminate messaging.	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☒ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

GCSD-5 Defensible Space

Lead Agency:	Gasquet CSD	
Supporting Agencies:	Gasquet Fire Department, US Forest Service	
Hazards of Concern:	☐ Drought ☐ Earthquake ☒ Extreme Heat ☐ Excessive Rain ☒ Extreme Wind	☐ Flood ☐ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	Most of the District is located in the very high wildfire severity zone. When combined with extreme heat and wind, the District is at high risk of wildfire.	
Description of the Solution:	Reduce exposure and vulnerability to the wildland fire hazard by creating and maintaining defensible space around structures and infrastructure including, but not limited to, the GCSD Administrative Building.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	This action will have an immediate reduction of risk to lives and property.	
Impact on Socially Vulnerable Populations:	This action will allow water service to remain functional during natural hazard events.	
Impact on Future Development:	Additional development may be possible with higher capacity infrastructure.	
Impact on Critical Facilities/Lifelines:	Loss of infrastructure would have an immediate impact on the water systems lifeline.	
Impact on Capabilities:	Strengthened water systems would allow the District to continue functioning during natural hazard events.	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☒ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	High	

DRAFT

GCSD-6 Emergency Plans

Lead Agency:	Gasquet CSD	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☒ Drought ☒ Earthquake ☒ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The District does not have established protocols for evacuations or communicating with customers during natural hazard events.	
Description of the Solution:	Develop an evacuation plan and an emergency communication plan.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,3	
Benefits:	This action would identify roles and responsibilities during a disaster and allow for quicker response and recovery.	
Impact on Socially Vulnerable Populations:	This action would assist socially vulnerable populations by pre-planning for messaging needs during evacuations and disasters.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action would support the water systems lifeline.	
Impact on Capabilities:	This action would allow the District to prepare for a more resilient future.	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

GCSD-7 Water Purification

Lead Agency:	Gasquet CSD	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	There is one primary water source that supplies the District and could suffer from contamination during a natural hazard event.	
Description of the Solution:	Purchase and distribute water purification equipment in the event of distribution problems/contamination.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	Increase the capacity and resilience of the District's water system to ensure residents have access to clean drinking water when hazard events occur.	
Impact on Socially Vulnerable Populations:	This action would prevent interruption of service for socially vulnerable populations.	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the water supply in the area for Del Norte and Tribal residents.	
Impact on Capabilities:	This action would allow the District to continue operating and providing water even if the primary source is damaged by a natural hazard event.	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

GCSD-8 Electronic Meters

Lead Agency:	Gasquet CSD	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	Existing meters need to be read manually.	
Description of the Solution:	Purchase and install efficient electronic meters to replace manually read meters to more accurately monitor water usage/loss.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	Increase the capacity and resilience of the District's water system to ensure residents have access to clean drinking water when hazard events occur.	
Impact on Socially Vulnerable Populations:	This action would prevent interruption of service for socially vulnerable populations.	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the water supply in the area for Del Norte and Tribal residents.	
Impact on Capabilities:	This action would allow the District to continue operating and providing water even if the primary source is damaged by a natural hazard event.	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

8. HRC COMMUNITY SERVICES DISTRICT

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the HRC Community Service District with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of HRC Community Service District, describes who participated in the planning process, assesses the District's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

8.1 HAZARD MITIGATION PLANNING TEAM

The HRC Community Service District identified primary and alternate HMP points of contact and developed this plan over the course of several months. George Wesley White represented the community on the Del Norte County HMP Planning Partnership and Steering Committee and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 8-1 summarizes District officials who participated in the development of the annex and in what capacity. Additional documentation of the District's planning activities through Planning Partnership meetings is included in Volume 1.

Table 8-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: George Wesley White, Board President Address: 149 Club Drive, Crescent City, CA 95531 Phone Number: 707-951-4059 Email: hrcwater@gmail.com	Name/Title: Alan Gwiazdon, Board Member Address: 149 Club Drive, Crescent City, CA 95531 Phone Number: 925-381-2033 Email: hrcwater@gmail.com

8.2 COMMUNITY PROFILE

HRC Community Services District was established in 1965, for the purpose of providing water for domestic and recreational (golf course) use.

8.2.1 Service Area and Trends

The HRC Community Services District is located approximately ten miles northeast of Crescent City on North Bank Road (Highway 197). The district lies within the Smith River National Recreation Area and covers approximately 353 acres. The district sphere of influence is approximately 967 acres.

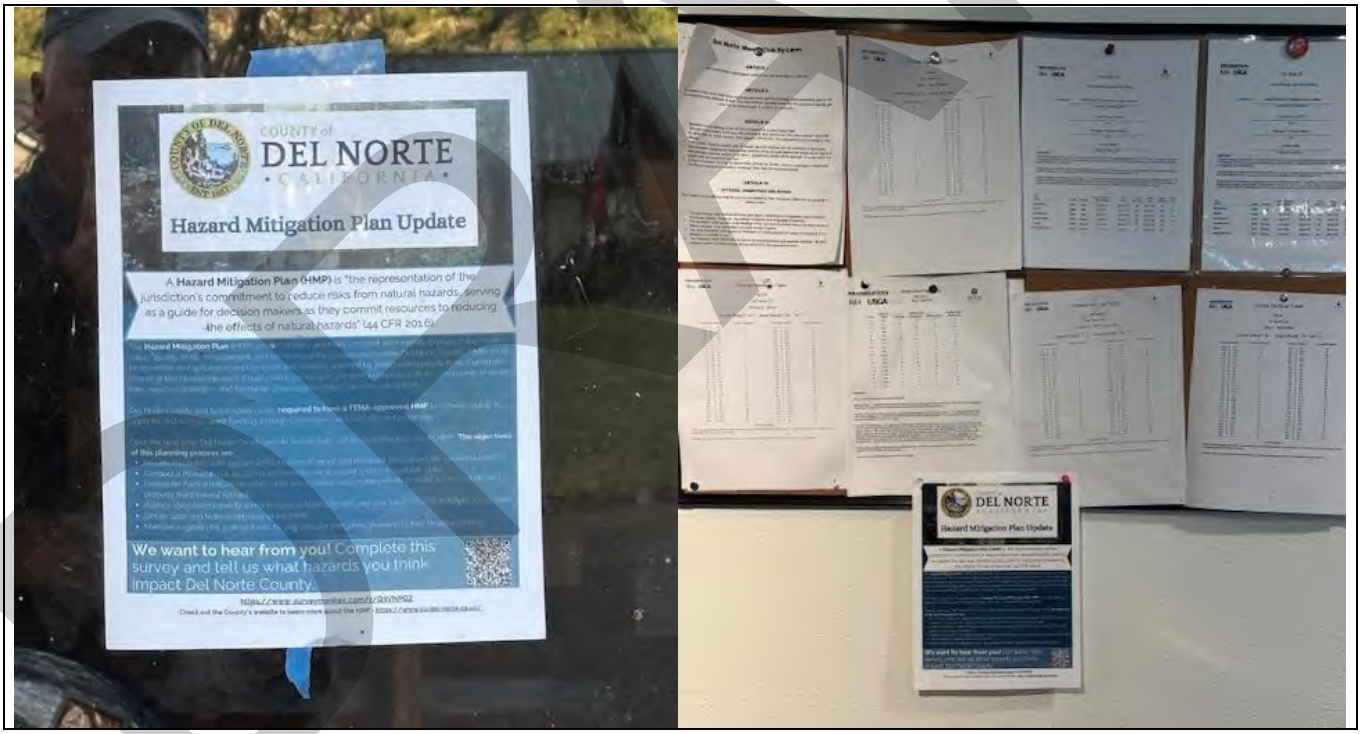
DRAFT

8.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores, hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

In addition to that work, the District posted information about the HMP update in key places that their customers congregate, including the golf course club house bulletin board and on the front door of the HRC building, which is where HRC meeting agendas are normally posted. HRC has around 70 residences, many of whom are older and do not use technology. Therefore, printed materials were prioritized over virtual outreach. Figure 8-1 shows selected outreach efforts and Appendix A includes all outreach efforts.

Figure 8-1. Public Outreach by HRC Community Services District



8.3.1 Public Feedback Integration

Of the 196 responses to the public survey, no respondents reported that they received services from the District.

DRAFT

8.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. This section focuses on the stakeholders invited to participate in the planning process by the County. The following organizations were invited to participate by attending a Steering Committee meeting, responding to the stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan.

8.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Del Norte Local Agency Formation Commission
- California Governor's Office of Emergency Services
- USDA Rural Development

8.4.2 Agencies that Have the Authority to Regulate Development

- Del Norte County Planning Division
- California State Water Resources Control Board, Redding CA

8.4.3 Neighboring Communities

- Big Rock Community Services District
- Gasquet Community Services District
- Klamath Community Services District
- Smith River Community Services District

8.4.4 Representatives of Business, Academia, and Other Private Organizations

- Inman Construction

8.4.5 Nonprofit Organizations and Community-Based Organizations

- Jed Smith Homeowners Association

8.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

HRC Community Services District performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Administrative and technical capabilities

DRAFT

- Fiscal capabilities
- Education and outreach capabilities
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for HRC Community Services District to identify opportunities for integrating mitigation concepts into ongoing District procedures.

8.5.1 Planning and Regulatory Capability and Integration

As a special district in Del Norte County, the District follow County ordinances, codes, and regulations. Table 8-2 summarizes the planning and regulatory tools specific to HRC Community Services District.

Table 8-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Code/Ordinance/Resolution	Yes	Enabling Legislation: Community Service District Law, CA Government code 61000	State	California State Legislature
California Government Code Section 61000 establishes the law that governs Community Service Districts.				
Planning Documents				
Municipal Service Review	Yes	HRC Community Services District Municipal Service Review and Sphere of Influence Update, September 2018	District	HRC Community Services District
This Municipal Service Review and Sphere of Influence Update provides information about the services and boundaries of the HRC Community Services District. The report is for use by the Del Norte Local Agency Formation Commission (LAFCo) in conducting a statutorily required review and update process. This report provides LAFCo with a tool to study current and future public service conditions comprehensively and to evaluate organizational options for accommodating growth, preventing urban sprawl, and ensuring that critical services are provided efficiently. The report references the HMP when discussing the District's infrastructure at risk of seismic activity.				

8.5.2 Building Codes, Land Use, and Development

HRC Community Services District is a special district located in unincorporated Del Norte County. The District is subject to the Del Norte County and State of California building codes and land use regulations. The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, building code, land use, and development capabilities are not applicable to the District.

DRAFT

8.5.3 Administrative and Technical Capability

Table 8-3 summarizes potential staff and personnel resources available to HRC Community Services District and their current responsibilities that contribute to hazard mitigation.

Table 8-3. Administrative and Technical Capabilities

Resources	Available?	Comment
ADMINISTRATIVE CAPABILITY		
Board of Directors	Yes	The Board of Directors oversees all aspects of the CSD. There are five members, and they meet quarterly.
TECHNICAL/STAFFING CAPABILITY		
Planners or engineers with knowledge of land development and land management practices	Yes	Contracted services on an as-needed basis for various projects.
Engineers or professionals trained in building or infrastructure construction practices	Yes	Contracted services on an as-needed basis for various projects. Recently, the CSD worked with a consultant to develop a distribution line extension feasibility/capacity study.
Personnel skilled or trained in GIS and/or Hazus applications	Yes	Contracted services on an as-needed basis for various projects.
Other (this could include stormwater engineer, environmental specialist, etc.)	Yes	Contracted services to support bookkeeping and legal/paperwork requirements.

8.5.4 Fiscal Capability

Table 8-4 summarizes financial resources available to HRC Community Services District.

Table 8-4. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	No
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	Yes – increase connection fee
Impact fees for homebuyers or developers of new development/homes	Yes – complete rate study when new developer proposed project
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Yes USDA loan; refurbishing water
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Potential: State Water Resources Board grants RCAC USDA loan; may consolidate with HOA nearby

DRAFT

8.5.5 Education and Outreach Capability

Table 8-5 summarizes the education and outreach resources available to HRC Community Services District.

Table 8-5. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	The CSD developed a warning systems plan previous as required by the California Water Resources Board.
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	-
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	No	-

8.5.6 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 8-6 summarizes the adaptive capacity for each identified hazard of concern and the District's capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

DRAFT

Table 8-6. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Weak
Extreme Heat	Weak
Extreme Wind	Weak
Excessive Rain	Weak
Earthquake	Weak
Flood	Weak
Landslide	Weak
Tsunami	Weak
Wildfire	Weak

8.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

The HRC Community Services District does not participate in the NFIP directly. Therefore, all structures located within the District's jurisdiction were included in the Del Norte County assessment of NFIP-insured structures with repetitive loss. This information can be found in Section 2.6.

8.7 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of the District's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

8.7.1 Hazard Area

Hazard area maps provided below illustrate the probable hazard areas impacted within the District are shown in Figure 8-2 and Figure 8-3. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which HRC Community Services District has significant exposure. The maps show the location of potential new development, where available.

8.7.2 Hazard Event History

The history of natural and non-natural hazard events in HRC Community Services District is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 8-7 provides details on loss and damage in HRC Community Services District during hazard events since the last hazard mitigation plan update.

DRAFT

Figure 8-2. HRC Community Services District Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location

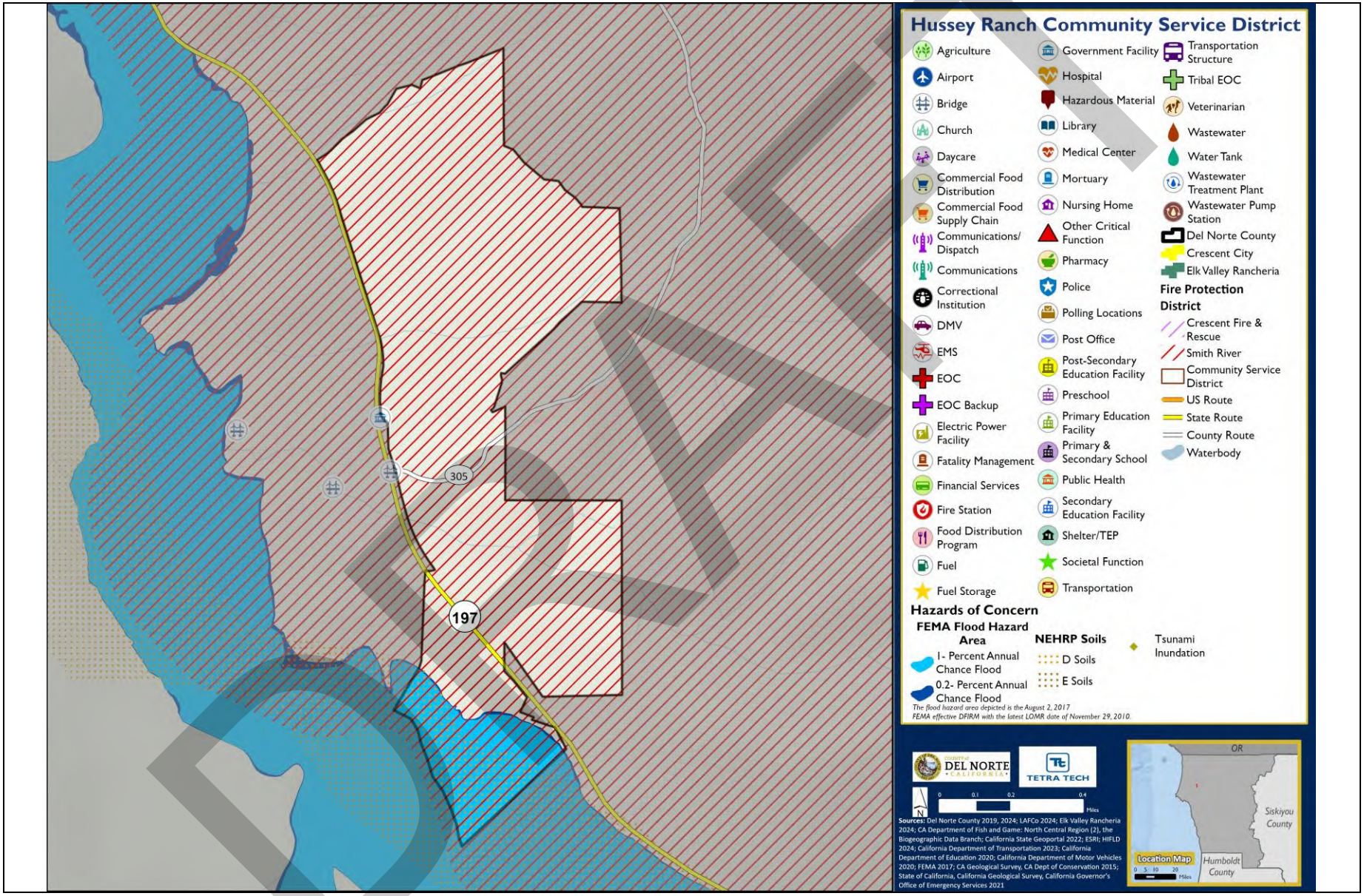


Figure 8-3. HRC Community Services District Wildfire and Landslide Hazard Area Extent and Location

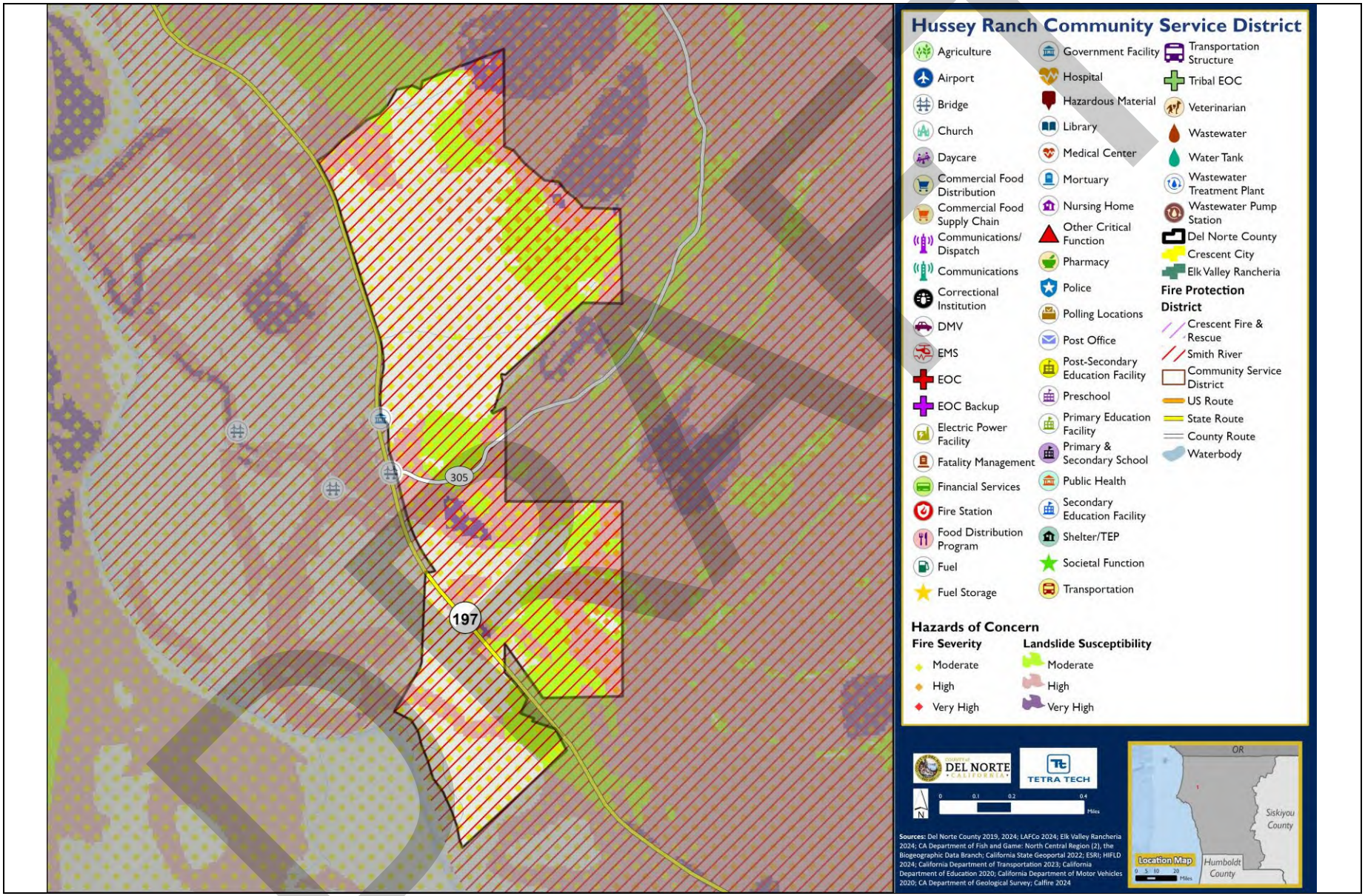


Table 8-7. Hazard Event History in HRC Community Services District

Dates of Event	Event Type (Disaster Declaration)	County Designated ?	Summary of Event	Summary of Damage and Losses in HRC Community Services District
February 24 to March 1, 2019	Severe Storm DR-4434-CA	Yes, Federal	An atmospheric river spread across northern CA and produce heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane	None
January 20, 2020 to May 11, 2023	Pandemic (COVIC 19) DR-4482-CA EM-3428-CA	Yes, Federal	The first confirmed case in CA was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023	None
September 4 to November 17, 2020	Wildfire DR-4569-CA CA20-3	Yes, State and Federal	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	None
December 27, 2022 to January 31, 2023	Flood DR-4683-CA CA23-1	Yes, State and Federal	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	None
February 21 to July 10, 2023	Severe Storm, Flood DR-4699-CA EM-3592-CA CA23-3	Yes, State and Federal	Severe storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199	None
August 15, 2023	Wildfire CA23-5	Yes, State	Dry thunderstorms produced lightning strikes across the Six Rivers National Forest. 27 fires developed in the Gasquet Ranger District and grew rapidly, jumping Highway 199 causing a 3-week closure and resulting in the evacuation of the Town of Gasquet. The fire destroyed high-tension powerlines powering all of Del Norte County. The County was without power through August 25 when generators were installed. Main transmission lines were not repaired until September 10. The fire burned into October with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	Electrical outage caused the well pump to be inoperable. Pacific Power supplied a generator so water outage did not last long. Board members rotated filling tank and fueling generator.

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

DRAFT

8.7.3 Hazard Ranking

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for HRC Community Services District.

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. HRC Community Services District reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the District indicated the following:

- HRC is located entirely outside of the tsunami hazard area.
- Drought has historically not occurred within HRC's boundaries.
- Extreme heat will not impact HRC operations.
- Excessive rain and flood have not historically impacted HRC's operations.

Table 8-8 shows HRC Community Services District's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 8-8. Hazard Ranking

Hazard	Rank
Drought	Low
Extreme Heat	Low
Extreme Wind	Low
Excessive Rain	Low
Earthquake	Medium
Flood	Low
Landslide	Low
Tsunami	Low
Wildfire	High

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

8.7.4 Identified Issues

After review of the District's hazard event history, hazard rankings, hazard location, and current capabilities, HRC Community Services District identified the following vulnerabilities within the community:

- The entire district is located in the moderate or high wildfire hazard area.

DRAFT

- A significant portion of the district is located in the landslide hazard area, including the major roadway, US 197.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

8.8 FUTURE CONDITIONS THAT MAY IMPACT RISK

8.8.1 Population Pattern Trends

As noted in Volume 1, the population of Del Norte County is expected to contract over the next 45 years. There are around 70 households that receive water services from HRC. The Greenside Estates subdivision continues to expand and the population served by HRC may increase in the future.

8.8.2 Changes in Land Use and Development

The District continues to add a few households per year. The population is not expected to explode in the District without significant expansion of water infrastructure capacity. Little change in actual or designated land uses within the District is anticipated over the next 20 years.

8.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

8.9.1 Past Mitigation Action Status and Changes in Priorities

HRC Community Services District did not participate in the 2019 HMP. Therefore, they do not have action updates or changes in priorities.

8.9.2 Hazards Not Included in District Mitigation Strategy

The HRC Community Services District is a very small water utility district and does not have the capacity to design an all-hazards mitigation program. HRC chose four targeted projects that will enhance the overall resilience of their water infrastructure to their hazards of greatest concern.

The District did not include actions for drought, extreme heat, or tsunami. The Smith River provides a consistent water supply and even when drought conditions exist elsewhere in the County, the water supply has not come close to impacting HRC operations. Extreme heat does not occur in the HRC area in temperatures that would impact the water operations. Finally, HRC's infrastructure is located outside of the tsunami hazard area.

DRAFT

8.9.3 Proposed Hazard Mitigation Actions for the HMP Update

HRC Community Services District participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 "Selecting Appropriate Mitigation Measures for Floodprone Structures" (March 2007)
- FEMA "Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards" (January 2013)

The action worksheets included at the end of this annex list the mitigation actions that HRC Community Services District would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in the District's priorities.

Table 8-9 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 8-10 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

8.9.4 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

Table 8-9. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Earthquake	-	HRC-1, HRC-2, HRC-3, HRC-4	-	-
Excessive Rain	-	HRC-1, HRC-2, HRC-3, HRC-4	-	-
Extreme Wind	-	HRC-1, HRC-2, HRC-3, HRC-4	-	-
Flood	-	HRC-1, HRC-2, HRC-3, HRC-4	-	-
Landslide	-	HRC-1, HRC-2, HRC-3, HRC-4	-	-
Wildfire	-	HRC-1, HRC-2, HRC-3, HRC-4	-	-

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.

Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.

Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

Table 8-10. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Backup Power	Medium	Medium	3	1-5 years	6.6	Medium
Water Distribution Lines	Medium	Medium	3	1-5 years	6.6	Medium
Backup Pump and Motor	High	Medium	2	1-5 years	5.4	Medium
Secondary Water Source	High	Medium	3	1-10 years	4.6	Low

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

DRAFT

HRC-1 Backup Pump and Motor

Lead Agency:	HRC Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☐Tsunami ☒Wildfire
Description of the Problem:	Existing water pumping infrastructure is not hardened against natural hazard disruptions.	
Description of the Solution:	Expand the capacity and level of protection provided by the pump and motor.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	2,4	
Benefits:	This action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	This action will allow water service to remain functional during natural hazard events.	
Impact on Future Development:	Additional development may be possible with higher capacity infrastructure.	
Impact on Critical Facilities/Lifelines:	Loss of infrastructure would have an immediate impact on the water systems lifeline.	
Impact on Capabilities:	Strengthened water systems would allow the District to continue functioning during natural hazard events.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

HRC-2 Secondary Water Source

Lead Agency:	HRC Community Services District	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	There is one primary water source that supplies the District.	
Description of the Solution:	Establish secondary water distribution/infrastructure/plant location/ground water vs surface water to ensure distribution to entire district in the event of catastrophic interruption to existing system.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-10 years	
Objectives Met:	1,2,4	
Benefits:	Increase the capacity and resilience of the District's water system to ensure residents have access to clean drinking water when hazard events occur.	
Impact on Socially Vulnerable Populations:	This action would prevent interruption of service for socially vulnerable populations.	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	This action benefits the water systems lifeline.	
Impact on Capabilities:	This action would allow the District to continue operating and providing water even if the primary source is damaged by a natural hazard event.	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Low	

DRAFT

HRC-3 Backup Power

Lead Agency:	HRC Community Services District	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The power system that runs the water infrastructure is not hardened against natural hazards.	
Description of the Solution:	Install backup power system that will keep infrastructure running during natural hazard events. Continue to work with county officials and Pacific Power to try to cross connect with Coos Curry for back up electrical power supply.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	Increase the capacity and resilience of the District's water system to ensure residents have access to clean drinking water when hazard events occur.	
Impact on Socially Vulnerable Populations:	This action would prevent interruption of service for socially vulnerable populations.	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	This action benefits the water systems lifeline.	
Impact on Capabilities:	This action would allow the District to continue operating and providing water even if the primary source is damaged by a natural hazard event.	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

HRC-4 Water Distribution Lines

Lead Agency:	HRC Community Services District	
Supporting Agencies:	Del Norte County	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	Existing water infrastructure does not have the capacity to support fire trucks during a wildfire. In addition, a landslide, earthquake or flood would damage the water and could result in water service being suspended for all customers.	
Description of the Solution:	Expand the capacity and level of protection provided by water distribution lines.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	Increase the capacity and resilience of the District's water system to ensure residents have access to clean drinking water when hazard events occur.	
Impact on Socially Vulnerable Populations:	This action would prevent interruption of service for socially vulnerable populations.	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	This action benefits the water systems lifeline.	
Impact on Capabilities:	This action would allow the District to continue operating and providing water even if the primary source is damaged by a natural hazard event.	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

9. KLAMATH COMMUNITY SERVICES DISTRICT

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the District of Klamath Community Services District with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Klamath Community Services District, describes who participated in the planning process, assesses Klamath Community Services District's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

9.1 HAZARD MITIGATION PLANNING TEAM

The Klamath Community Services District identified primary and alternate HMP points of contact and developed this plan over the course of several months. Margaret Caldwell represented the community on the Del Norte County HMP Planning Partnership and Steering Committee and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 9-1 summarizes Klamath Community Services District officials who participated in the development of the annex and in what capacity. Additional documentation of the District's planning activities through Planning Partnership meetings is included in Volume 1.

Table 9-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Margaret Caldwell, Board of Directors Chairman Address: PO Box 430, 111 Klamath Mill Rd, Klamath, CA 95548 Phone Number: 707-482-0723 Email: klamathcsd@gmail.com	Name/Title: Sandy Moreno, Contract Treasurer Address: 900 Northcrest Drive, #9, Crescent City, CA 95531 Phone Number: 707-954-3161 Email: SummitAccountingServices@aol.com

9.2 COMMUNITY PROFILE

The Klamath Community Services District (KCSD) is located in southern Del Norte County, CA, approximately 20 miles south of Crescent City and 55 miles north of Arcata. The KCSD was formed June 14, 1965 for the purpose of providing water and wastewater services to the unincorporated community of Klamath. The District is approximately 0.44 square miles (285 acres), with a boundary that extends along both sides of Highway 101 for approximately one mile north of the Klamath Glen Road exit. The District extends west to the Klamath River and east to approximately 400 feet beyond existing development. Klamath is located within the northern part of the Yurok Reservation and KCSD serves private and Yurok Tribal lands, facilities and housing. Funding comes primarily through water sales, waste water fees, a government loan and property taxes.

KCSD is governed by five locals comprising a Board of Directors/Trustees who are elected in County elections for four-year terms. The organization employs a part-time Distribution/Treatment Operator and a part-time Field Maintenance Operator, and a part-time bookkeeper. Summit Accounting Services & Taxes (Sandy Moreno) provides fiscal management on contract as Treasurer for the District. In addition, KCSD uses (a) an independent auditing firm on contract (Don Reynolds, CPA) (b) Stover Engineering on contract for engineering services (c) Coast Central Credit Union for financial operations and (d) Dohn R Hennion for legal services. The Board holds internal elections every year to choose a President of the Board, a President Pro-Tempore and appoints a Secretary to the Board. All must be members of the Board. Each director/trustee earns a stipend of $40 per meeting to compensate for personal costs of meeting attendance but otherwise receives no regular compensation and no benefits. The Special District's Municipal Service Review by the Local Agency Formation Commission is current as of June 2019 and is available to interested parties. The KCSD Board of Directors/Trustees assumes responsibility for the adoption of this plan and will oversee its implementation.

9.2.1 Service Area and Trends

KCSD serves the unincorporated community of Klamath including a mix of residential and commercial uses. The District also contains lands designated public facility, resource conservation area, and timberland. Land uses within the District are subject to the Del Norte County General Plan and Zoning Code.

There are approximately 40 homes and 22 businesses within the District boundaries. There are 2 multi-residential properties, the Village Mobile Home Park has 33 lots and Hop'ew Village has 15 units. There is 1 hotel and 1 seasonal Redwood RV Park. The District estimates 3.3 individuals (aged people, adults and children) per household, for an estimated District population of 240. Due to seasonal tourism and recreational uses, the District estimates that the summer population exceeds 360.

9.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores, hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

9.3.1 Public Feedback Integration

Of the 196 responses to the public survey, two respondents reported that they received services from the District. These two respondents were extremely or very concerned about extreme wind and wildfire. They reported receiving emergency information through mass notifications and TV/radio. They

DRAFT

expressed concern about flooding and landslides on US 169, RV parks being particularly vulnerable to natural hazards, debris clogging dikes, and inoperable warning sirens. The mitigation strategy was prioritized with these concerns and community limitations in mind.

9.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. In addition to that work, the District invited stakeholders to participate in the planning process. The following organizations were invited to participate by attending a Steering Committee meeting, responding to the stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan:

9.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Del Norte Local Agency Formation Commission
- California Governor's Office of Emergency Services
- USDA Rural Development
- LAFCo
- Cal Fire
- Cal Trans

9.4.2 Agencies that Have the Authority to Regulate Development

- Del Norte County Planning Division
- Yurok Tribe Planning Division

9.4.3 Neighboring Communities

- Big Rock Community Services District
- Gasquet Community Services District
- HRC Community Services District
- Smith River Community Services District
- Redwood Park Community Services District

9.4.4 Representatives of Business, Academia, and other Private Organizations

- Green Diamond

9.4.5 Nonprofit Organizations and Community-Based Organizations

- Yurok Indian Housing Authority

DRAFT

9.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Klamath Community Services District performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Klamath Community Services District to identify opportunities for integrating mitigation concepts into ongoing District procedures.

9.5.1 Planning and Regulatory Capability and Integration

As a special district in Del Norte County, the District follow County ordinances, codes, and regulations. Table 9-2 summarizes the planning and regulatory tools specific to Klamath CSD.

9.5.2 Building Codes, Land Use, and Development

Klamath Community Services District is subject to the Del Norte County and State of California building codes and land use regulations. The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, building code, land use, and development capabilities are not applicable to the District.

9.5.3 Administrative and Technical Capability

Table 9-3 summarizes potential staff and personnel resources available to Klamath Community Services District and their current responsibilities that contribute to hazard mitigation.

DRAFT

Table 9-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Code/Ordinance/Resolution	Yes	Resolution June 22, 1970; Resolution 89-1	County	Del Norte County Board of Supervisors
Resolution allows special district to be formed to supply potable water to district residents and street lighting services.				
Planning Documents				
Municipal Service Review	Yes	South County Community Services Districts Municipal Service Review and Sphere of Influence Update, March 2022	District	South County Community Services Districts (Hunter Valley, Klamath, and Redwood Park Community Services Districts)
This Municipal Service Review and Sphere of Influence Update provides information about the services and boundaries of the Smith River Community Services District. The report is for use by the Del Norte Local Agency Formation Commission (LAFCo) in conducting a statutorily required review and update process. This report provides LAFCo with a tool to study current and future public service conditions comprehensively and to evaluate organizational options for accommodating growth, preventing urban sprawl, and ensuring that critical services are provided efficiently. The report references the HMP when discussing the District's infrastructure at risk of seismic activity.				

Table 9-3. Administrative and Technical Capabilities

Resources	Available?	Comment
Administrative Capability		
Emergency Management/Public Safety Department	Yes	President and Staff address as needed.
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Field Maintenance Operator inspects the facilities, distribution lines & leech fields for vulnerabilities.
Mutual aid agreements	Yes	District shares a generator with Redwood CSD
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Stover Engineering - Contractor
Engineers or professionals trained in building or infrastructure construction practices	Yes	Stover Engineering - Contractor
Planners or engineers with an understanding of natural hazards	Yes	Stover Engineering - Contractor
Staff with expertise or training in benefit/cost analysis	Yes	Contract Treasurer
Professionals trained in conducting damage assessments	Yes	Distribution/Treatment Operator
Personnel skilled or trained in GIS and/or Hazus applications	Yes	Stover Engineering - Contractor
Staff that work with socially vulnerable populations or underserved communities	Yes	President and Bookkeeper
Environmental scientists familiar with natural hazards	Yes	Distribution/Treatment Operator
Surveyors	Yes	Stover Engineering - Contractor
Grant writers	Yes	Contract Bookkeeper

DRAFT

9.5.4 Fiscal Capability

Table 9-4 summarizes financial resources available to Klamath Community Services District.

Table 9-4. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes (Water, Sewer)
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Cost Sharing Agreements with other local special districts

9.5.5 Education and Outreach Capability

Table 9-5 summarizes the education and outreach resources available to Klamath Community Services District.

Table 9-5. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	Yes	District's President serves as the Public Information Officer.
Personnel skilled or trained in website development	Yes	The District's Bookkeeper maintains the website.
Hazard mitigation information available on your website	Yes	
Social media for hazard mitigation education and outreach	Yes	The District's Board members use social media for outreach.
Warning systems for hazard events	No	Siren system for early warning situations are currently not in operation.
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	Yes	In the District's small community word of mouth seems to be best method to communicate hazard related information. Mailings in the monthly billing statement are also used to communicate with the community.

DRAFT

9.5.6 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 9-6 summarizes the adaptive capacity for each identified hazard of concern and the District's capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

Table 9-6. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Moderate
Extreme Heat	Moderate
Extreme Wind	Moderate
Excessive Rain	Moderate
Earthquake	Moderate
Flood	Weak
Landslide	Moderate
Tsunami	High
Wildfire	High

9.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Klamath Community Services District is a special district for unincorporated Del Norte County. The District does not participate in the NFIP directly. Therefore, all structures located within the District's jurisdiction were included in the Del Norte County assessment of NFIP-insured structures with repetitive loss. This information can be found in Section 2.6.

DRAFT

9.7 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of Klamath Community Services District's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

9.7.1 Hazard Area

The probable hazard areas impacted within the District are shown in Figure 9-1 and Figure 9-2. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Klamath Community Services District has significant exposure. The maps show the location of potential new development, where available.

9.7.2 Hazard Event History

The history of natural and non-natural hazard events in Klamath Community Services District is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 9-7 provides details on loss and damage in Klamath Community Services District during hazard events since the last hazard mitigation plan update.

9.7.3 Hazard Ranking

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for Klamath Community Services District.

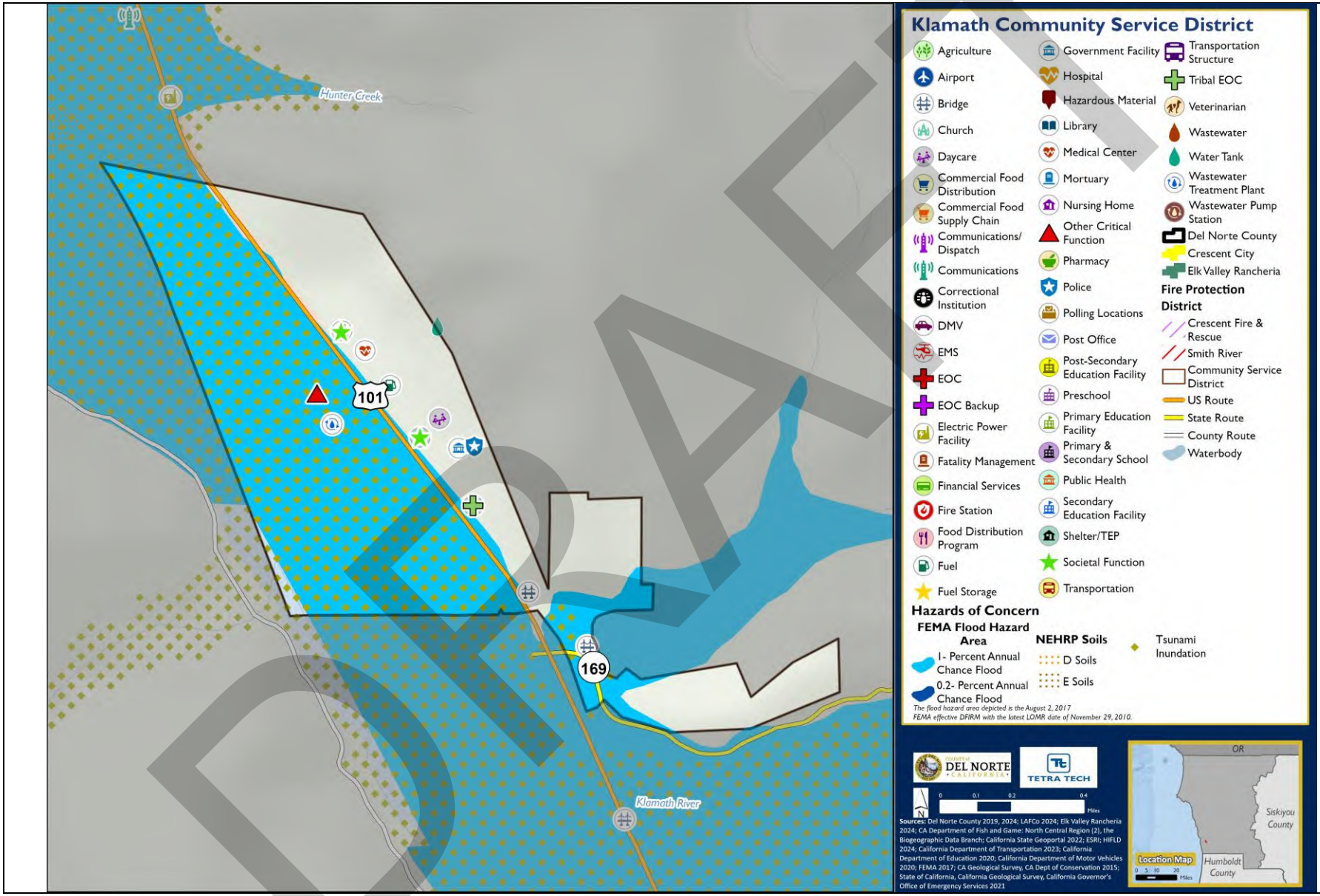
The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. Klamath Community Services District reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the District indicated the following:

- The District's repairs and maintenance budget continues to be taxed due to the occurrence of increased number of weather-related events.

Table 9-8 shows Klamath Community Services District's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

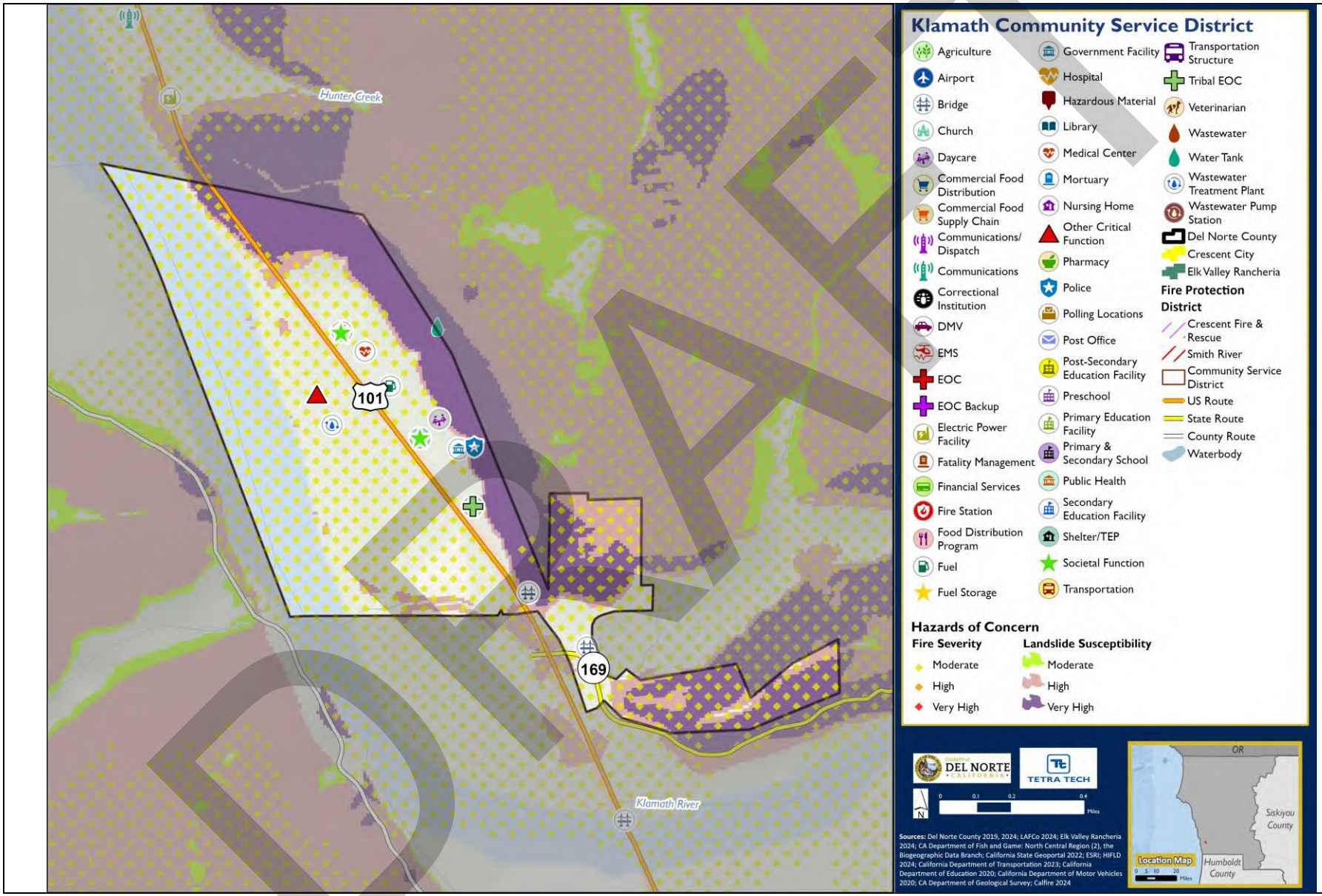
DRAFT

Figure 9-1. Klamath Community Services District Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location



DRAFT

Figure 9-2. Klamath Community Services District Wildfire and Landslide Hazard Area Extent and Location



DRAFT

Table 9-7. Hazard Event History in Klamath Community Services District

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Klamath Community Services District
February 24 to March 1, 2019	Severe Storm DR-4434-CA	Yes, Federal	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	Flooding, power outages, SCADA systems down, fences & trees downed.
January 20, 2020 to May 11, 2023	Pandemic (COVID-19) DR-4482-CA EM-3428-CA	Yes, Federal	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023.	Unable to maintain regular maintenance schedules due to reduced staff availability.
September 4 to November 17, 2020	Wildfire	Yes, State and Federal	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	Provided water tanker support to Cal-Fire.
November 9, 2021	High Wind	-	Pacific Power	Main Water Tank inoperable. Secondary tanks found to have salt intrusion. Boil Water notices issued.
December 27, 2022 to January 31, 2023	Flood DR-4683-CA CA23-1	Yes, State and Federal	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	Klamath Mill Rd and leach fields flooded, banks busted making culverts inoperable, multiple power outages, SCADA systems down, fences & trees downed. Sump pumps used to access meters.
February 21 to July 10, 2023	Severe Storm, Flood DR-4699-CA EM-3592-CA CA23-3	Yes, State and Federal	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	No damages

DRAFT

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Klamath Community Services District
August 15, 2023	Wildfire CA23-5	Yes, State	Dry thunderstorms produced numerous lightning strikes across the Six Rivers National Forest. Twenty-seven fires developed within the Gasquet Ranger District and grew in size rapidly in the first couple of weeks of the fire, jumping Highway 199 causing a 3-week closure and resulting in the evacuation of the town of Gasquet. The fire also destroyed the high-tension powerlines powering all of Del Norte County. The County was completely without power through August 25 when generators were installed to power the community. Main transmission lines were not repaired until September 10 when full power was restored. The fire continued to burn through September into October with fewer impacts to the community with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	Power outages over multiple days resulted in water tanks drained, SCADA system failures, and sewage plant inoperable. Shared generators used.
January 13, 2024	High Wind	-	An atmospheric river resulted in 3 to 7 inches of rainfall in roughly 8 to 10 hours. This resulted in the highest flows on the Mad River and Redwood Creek since the 1970s. Widespread creek flooding occurred in Del Norte and Humboldt with multiple homes damaged or destroyed.	Klamath Mill Rd and leach fields flooded, banks busted making culverts inoperable, multiple power outages, SCADA systems down, fences & trees downed. Sump pumps used to access meters.

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

Table 9-8. Hazard Ranking

Hazard	Rank
Drought	Medium
Extreme Heat	Medium
Extreme Wind	Medium
Excessive Rain	Medium
Earthquake	Low
Flood	Medium
Landslide	Medium
Tsunami	High
Wildfire	High

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

DRAFT

9.7.4 Identified Issues

After review of Klamath Community Services District's hazard event history, hazard rankings, hazard location, and current capabilities, Klamath Community Services District identified the following vulnerabilities within the community:

- Dam failure—KCSD facilities are located in dam failure inundation areas.
- Flooding—The KCSD Wastewater Treatment Plan is located in the 1-percent annual chance special flood hazard area. The District is currently performing a waste water treatment plan study and this vulnerability has been included in the design of the new plant.
- Earthquake—The KCSD Wastewater Treatment Plant is located in class D soil, which may be prone to liquefaction. The District is currently performing a waste water treatment plan study and this vulnerability has been considered in the design of the new plant.
- Landslide—A 125,000 gallon water tank is located in a very high landslide susceptibility zone. The District is currently working with the Yurok Tribe to identify an alternate site for a125,000 gallon water tank.
- Severe weather—Power disruption can occur as a result of severe weather events.
- Wildland fire—KCSD facilities are located in high fire severity zones.
- Tsunami—The KCSD Wastewater Treatment Plant is located in a tsunami inundation zone. The District is currently performing a waste water treatment plan study and this vulnerability has been considered in the design of the new plant.
- Isolation—Several hazard events may result in isolation of the District and/or the inability for District staff and residents to evacuate. In the event that Highway 101 becomes inaccessible, the only available evacuation route is an extremely steep grade and is not well maintained. The District is currently working with the Yurok Tribe to resolve this issue.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

9.8 CONDITIONS THAT MAY IMPACT RISK

9.8.1 Population Pattern Trends

There are approximately 40 homes and 22 businesses within the District boundaries. There are 2 multi-residential properties, the Village Mobile Home Park has 33 lots and Hop'ew Village has 15 units. There is 1 hotel and 1 seasonal Redwood RV Park. The District estimates 3.3 individuals (aged people, adults and children) per household, for an estimated District population of 240. Due to seasonal tourism and recreational uses, the District estimates that the summer population exceeds 360.

The District contains vacant residential and commercial lands that will likely continue to develop at or near the current county-wide rates of 0.4 percent per year, putting the Klamath CSD population at approximately 250 in 2025. The District projects a population of approximately 260 in 2025. The visitor population may increase as well as a hotel expansion is being considered by the Yurok Tribe.

DRAFT

9.8.2 Changes in Land Use and Development

The Klamath CSD serves the unincorporated community of Klamath including a mix of residential, commercial uses, and Tribal uses. The District also contains lands designated public facility, resource conservation area, and timberland. KCSD water infrastructure includes three active untreated wells, one 125,000-gallon water storage tank, and a water distribution system. Water is metered and supplied to homes through ¾" supply lines. KCSD serves approximately 68 water connections within the District. In 2014 the District hooked up three new commercial facilities to the water system including a hotel/casino, a Knowledge and Cultural Park and the Yurok Tribe Justice Center. The water system was designed to meet both domestic water and fire flow requirements. One new commercial water connection is anticipated in 2025.

KCSD is responsible for collection, treatment, and disposal of the community's wastewater. The present service area consists of commercial and residential areas. The District provides approximately 37 residential and 12 commercial wastewater service connections as of 2024. These numbers likely have not changed due to a Cease and Desist Order that has been placed on the wastewater system by the North Coast Regional Water Quality Control Board (NCRWQCB) since 2006. The wastewater system is capable of serving a maximum capacity of 49 connections. The District has received a State Water Resources Control Board Proposition 1 grant in the amount of $500,000 to provide a Waste Water System Renovation Planning Project which included a rate study and was completed in 2019. In April 2024 estimated cost of construction was at finalized at $8,566,140 and the grant approval is pending. The District will be completing an in-house rate study in 2025.

9.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

9.9.1 Past Mitigation Action Status

Table 9-9 indicates progress on the District's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

9.9.2 Additional Mitigation Efforts

In addition to the mitigation actions completed in Table 9-9, Klamath Community Services District identified the following mitigation efforts completed since the last HMP:

- Funding for the construction of the Waste Water System Renovation is in the process of being secured. The Yurok Tribe is constructing a new water tank scheduled to be complete in October 2025. Grant Funding Requests for a Water System Study are in process.

DRAFT

Table 9-9. Mitigation Action Status

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
KCSD-1	Renovate wastewater system located in high hazard area that has experienced repetitive losses. Incorporate mitigation into renovation plans.	KCSD	In Progress, SWRCB grant funding documents in process	yes	Thousands of dollars are spent annually to repair equipment damaged due to power outages and extreme weather.	Multi-Hazard
KCSD-2	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	Del Norte County	Ongoing Capability	yes	Problem to be addressed is the need for community coordination and understanding of hazards.	Multi-Hazard
KCSD-3	Purchase generators for critical facilities and infrastructure that lack adequate back-up power including the waste water pumping station.	KCSD	No Progress Grant requests have been denied.	yes	Problem to be addressed is the need for a generator given the excessive number of power outages.	Multi-Hazard
KCSD-4	Enhance ongoing public education programs to include components on hazards and mitigation.	KCSD	Ongoing Capability	yes	Problem to be addressed is the need continually educate the community on potential hazards and mitigation.	Multi-Hazard
KCSD-5	Create website to include preparedness, warning and mitigation information on all hazards.	KCSD	Completed.	No	-	-
KCSD-6	Procure emergency communications equipment such as HAM radios.	KCSD	No Progress Grant requests denied	yes	Problem to be addressed is that a hazard could isolate the District from the County	Multi-Hazard
KCSD-7	Draft and adopt an Emergency Response Plan	KCSD	No Progress Obstacle to progress is limited staff availability and funding.	yes	Problem to be addressed is no plan in place.	Multi-Hazard
KCSD-8	Draft and adopt a Catastrophic Disaster Plan	KCSD	No Progress Obstacle to progress is limited staff availability and funding.	yes	Problem to be addressed is no plan in place.	Multi-Hazard
KCSD-9	Draft and adopt a Post Disaster Action Plan that includes grant funding, debris removal and long-term recovery planning components, addressing both public and private assets.	KCSD	No Progress Obstacle to progress is limited staff availability and funding.	yes	Problem to be addressed is no plan in place.	Multi-Hazard

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
KCSD-10	Improve accessibility/maintenance of evacuation road.	Yurok Tribe	In Progress	Yes	Evacuation road deteriorated due to hazards.	Multi-Hazard
KCSD-11	Replace water distribution lines to avoid catastrophic water loss. Life cycle expectancy ends in 2025.	KCSD	No Progress Funding unavailable	yes	Problem to be address is an aging system being overstressed.	Flooding, excessive rain
KCSD-12	Continue to work with the Yurok Tribe to identify an alternate site for a 125,000 gallon water tank located in a landslide hazard area.	KCSD	In Progress Yurok Tribe working on permits to begin construction.	yes	Yurok Tribe developments require increased capacity but unable to find a location that isn't hazardous.	Earthquake, landslide, flooding.

9.9.3 Changes in Priorities

There have been no changes in priorities for KCSD since the 2019 HMP update.

9.9.4 Hazards Not Included in District Mitigation Strategy

The Klamath Community Services District is a very small water utility district and does not have the capacity to design an all-hazards mitigation program. The District chose ten targeted projects that will enhance the overall resilience of their water infrastructure to their hazards of greatest concern.

The District did not include actions for drought or extreme heat. The Klamath River provides a consistent water supply and even when drought conditions exist elsewhere in the County, the water supply has not come close to impacting operations of the District. Extreme heat does not occur in the Klamath area in temperatures that would impact the water operations.

9.9.5 Proposed Hazard Mitigation Actions for the HMP Update

Klamath Community Services District participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 "Selecting Appropriate Mitigation Measures for Floodprone Structures" (March 2007)
- FEMA "Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards" (January 2013)

The action worksheets at the end of this annex list the mitigation actions that Klamath Community Services District would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in the District's priorities.

DRAFT

Table 9-10 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 9-11 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

9.9.6 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

Table 9-10. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Earthquake	KCSD-5, KCSD-6	KCSD-1, KCSD-2, KCSD-4, KCSD-7, KCSD-8, KCSD-9	-	KCSD-3
Excessive Rain	KCSD-5, KCSD-6	KCSD-1, KCSD-2, KCSD-4, KCSD-7, KCSD-8	-	KCSD-3
Extreme Wind	KCSD-5, KCSD-6	KCSD-1, KCSD-2, KCSD-4, KCSD-7	-	KCSD-3
Flood	KCSD-5, KCSD-6	KCSD-1, KCSD-2, KCSD-4, KCSD-7, KCSD-8, KCSD-9, KCSD-10	-	KCSD-3
Landslide	KCSD-5, KCSD-6	KCSD-1, KCSD-2, KCSD-4, KCSD-7, KCSD-8, KCSD-9	-	KCSD-3
Tsunami	KCSD-5, KCSD-6	KCSD-1, KCSD-2, KCSD-4, KCSD-7, KCSD-8, KCSD-10	-	KCSD-3
Wildfire	KCSD-5, KCSD-6	KCSD-1, KCSD-2, KCSD-4, KCSD-7, KCSD-8	-	KCSD-3

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.

Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.

Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

Table 9-11. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Backup Power	Medium	High	3	1-5 years	7.6	High
Retrofit Critical Facilities	High	High	4	1-5 years	6.8	Medium
Public Education	Low	Low	1	1-5 years	6.2	Medium
Redundant Communications	Low	Low	1	1-5 years	6.2	Medium
Response Plans	Medium	Medium	1	1-5 years	6.2	Medium
Post-Disaster Plan	Medium	Medium	1	1-5 years	6.2	Medium
Evacuation Road	High	High	1	1-5 years	6.2	Medium
Relocate Wells	High	Medium	4	1-5 years	5.8	Medium
Water Tank Relocation	High	Medium	4	1-5 years	5.8	Medium
Water Distribution Lines	High	Medium	3	1-5 years	5.6	Medium

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

DRAFT

KCSD-1 Retrofit Critical Facilities

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	District-owned facilities experience thousands of dollars of loss annually to repair structures and equipment from natural hazard events.	
Description of the Solution:	Retrofit critical facilities that are located in hazard areas. This includes, but is not limited to, the wastewater facility.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4,5	
Benefits:	This action will have an immediate reduction of risk to lives and property.	
Impact on Socially Vulnerable Populations:	This action will allow water service to remain functional during natural hazard events.	
Impact on Future Development:	Additional development may be possible with higher capacity infrastructure.	
Impact on Critical Facilities/Lifelines:	Loss of infrastructure would have an immediate impact on the water systems lifeline.	
Impact on Capabilities:	Strengthened water systems would allow the District to continue functioning during natural hazard events.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

KCSD-2 Backup Power

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	The District frequently experiences power outages, which results in water service issues.	
Description of the Solution:	Purchase generators for critical facilities and infrastructure that lack adequate back-up power including the waste water pumping station.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	This action will have an immediate reduction of risk to lives and property.	
Impact on Socially Vulnerable Populations:	This action will allow water service to remain functional during natural hazard events.	
Impact on Future Development:	Additional development may be possible with higher capacity infrastructure.	
Impact on Critical Facilities/Lifelines:	Loss of infrastructure would have an immediate impact on the water systems lifeline.	
Impact on Capabilities:	Strengthened water systems would allow the District to continue functioning during natural hazard events.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	High	

DRAFT

KCSD-3 Public Education

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Continual public education is necessary to ensure customers are aware of hazard risks and the potential for natural hazards to impact the water supply.	
Description of the Solution:	Enhance ongoing public education programs to include components on hazards and mitigation.	
Estimated Cost:	Low	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	3	
Benefits:	Long-term benefits of the action are difficult to quantify in the short term.	
Impact on Socially Vulnerable Populations:	This action will assist vulnerable populations with understanding how natural hazards impact their water services.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☐Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☒ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

KCSD-4 Redundant Communications

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	The District is isolated from the rest of the county and a natural hazard could cut off telecommunications.	
Description of the Solution:	Identify and procure redundant emergency communications equipment, such as HAM radios.	
Estimated Cost:	Low	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	2	
Benefits:	Long-term benefits of the action are difficult to quantify in the short term.	
Impact on Socially Vulnerable Populations:	This action will help the water district to be more resilient during natural hazard events.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	This action would allow the district to continue communicating with state and local officials during a telecommunications outage.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

KCSD-5 Response Plans

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	The District does not have plans that identify roles and responsibilities during an emergency.	
Description of the Solution:	Draft and adopt an Emergency Response Plan and a Catastrophic Disaster Plan.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	2	
Benefits:	This action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	This action will allow for a faster and more coordinated response to natural hazard events.	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

KCSD-6 Post-Disaster Plan

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	The District does not have plans that identify roles and responsibilities following a disaster.	
Description of the Solution:	Draft and adopt a Post-Disaster Action Plan.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	2	
Benefits:	This action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	This action will allow for a faster and more coordinated recovery from natural hazard events.	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

KCSD-7 Evacuation Road

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Evacuation road has deteriorated due to natural hazard impacts.	
Description of the Solution:	Improve accessibility/maintenance of evacuation road.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1	
Benefits:	This action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	This action will allow vulnerable populations to evacuating during emergencies.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will benefit the water systems lifeline.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

KCSD-8 Water Distribution Lines

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Existing water infrastructure does not have the capacity to support fire trucks during a wildfire. In addition, a landslide, earthquake or flood would damage the water and could result in water service being suspended for all customers.	
Description of the Solution:	Expand the capacity and level of protection provided by water distribution lines.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	This action will have a long-term reduction of risk to lives and property.	
Impact on Socially Vulnerable Populations:	This action will allow water service to remain functional during natural hazard events.	
Impact on Future Development:	Additional development may be possible with higher capacity infrastructure.	
Impact on Critical Facilities/Lifelines:	Loss of infrastructure would have an immediate impact on the water systems lifeline.	
Impact on Capabilities:	Strengthened water systems would allow the District to continue functioning during natural hazard events.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

KCSD-9 Water Tank Relocation

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☒Flood ☒Landslide ☐Tsunami ☐Wildfire
Description of the Problem:	Yurok Tribe developments require increased capacity but the District has been unsuccessful at finding a location that is not in a hazard area.	
Description of the Solution:	Continue to work with the Yurok Tribe to identify an alternate site for a 125,000 gallon water tank located in a landslide hazard area.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4,5	
Benefits:	This action will have a long-term reduction of risk to lives and property.	
Impact on Socially Vulnerable Populations:	This action will allow water service to remain functional during natural hazard events.	
Impact on Future Development:	Additional development may be possible with higher capacity infrastructure.	
Impact on Critical Facilities/Lifelines:	Loss of infrastructure would have an immediate impact on the water systems lifeline.	
Impact on Capabilities:	Strengthened water systems would allow the District to continue functioning during natural hazard events.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

KCSD-10 Relocate Wells

Lead Agency:	Klamath Community Service District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐Drought ☐Earthquake ☐Extreme Heat ☐Excessive Rain ☐Extreme Wind	☒Flood ☐Landslide ☒Tsunami ☐Wildfire
Description of the Problem:	Two existing wells near US 101 have saltwater intrusion from sea level rise and flooding.	
Description of the Solution:	Relocate wells to an area at lower risk from natural hazards.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4,5	
Benefits:	This action will have a long-term reduction of risk to lives and property.	
Impact on Socially Vulnerable Populations:	This action will allow water service to remain functional during natural hazard events.	
Impact on Future Development:	Additional development may be possible with higher capacity infrastructure.	
Impact on Critical Facilities/Lifelines:	Loss of infrastructure would have an immediate impact on the water systems lifeline.	
Impact on Capabilities:	Strengthened water systems would allow the District to continue functioning during natural hazard events.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

10. SMITH RIVER FIRE PROTECTION DISTRICT

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Smith River Fire Protection District with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of the Smith River Fire Protection District, describes who participated in the planning process, assesses the District's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

10.1 HAZARD MITIGATION PLANNING TEAM

The Smith River Fire Protection District identified primary and alternate HMP points of contact and developed this plan over the course of several months. Geoffrey Antill represented the community on the Del Norte County HMP Planning Partnership and Steering Committee and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 10-1 summarizes District officials who participated in the development of the annex and in what capacity. Additional documentation of the District's planning activities through Planning Partnership meetings is included in Volume 1.

Table 10-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Geoffrey Antill, Captain Address: 245 Haight Ave, PO Box 187, Smith River, CA 95567 Phone Number: (707) 487-5621 Email: geoff.antill@srvfd.org	Name/Title: Elaine Fallgren, Chairperson Address: 245 Haight Ave, PO Box 187, Smith River, CA 95567 Phone Number: (707) 487-5621 Email: elaine.fallgren@srvfd.org
Additional Contributors	
Name/Title: Ron Simpson Method of Participation: Review and approve Annex	

10.2 COMMUNITY PROFILE

The Smith River Fire Protection District (SRFPD) is a California Special District, organized to provide local fire protection, rescue, and emergency medical services in the area around Smith River and Hiouchi, California.

SRFPD was first organized in 1934 after a fire that nearly destroyed the town of Smith River. In 1956, the district was formally incorporated as the Smith River Volunteer Fire Department. In 1978, the district was reorganized as a special district and renamed the Smith River Fire Protection District. On April 21,

DRAFT

1983, the SRFPD adopted a resolution annexing Hiouchi, California into the District. On March 7, 2024, SRFPD adopted a resolution annexing certain properties to the east of Oceanview Drive in Smith River.

SRFPD is primarily funded by a portion of property tax collections but also collects an annual fee (benefit assessment) per habitable structure. The district serves all residences, business, and wildland areas within its boundaries, as well as the many visitors to the area.

The district has just over 1,500 structures and about 2,600 residents. Population in the area trends up or down slightly with the local economy. About 27 percent of the population lives below the poverty level.

The small amount of new construction in the district is along the hillsides overlooking the ocean, and along the river in Hiouchi. These areas are considered urban-wildland interface areas. SRFPD participates in the Public Protection Class Rating and currently has a rating of 5/5Y.

SRFPD has three part-time paid staff members: a fire chief, a projects administrator, and a secretary. In addition, the district is staffed by approximately 20 volunteer firefighters. The department has formal reciprocal aid agreements with the Tolowa Dee Ni' Nation and with adjoining fire districts and other local, state and federal agencies.

The district operates two fire stations: the main hall in Smith River (Station One), and a station in Hiouchi (Station Two). The district responds to approximately 340 emergency calls per year. About three quarters of those calls are in the Station One first due area, and the remainder are within Station Two's area. About 70 percent of all calls are for medical assistance.

Due to the rural nature of the district, the availability of fire hydrants is limited to the township areas of Smith River and Hiouchi. A large portion of the district is supplied by well water, and firefighting is accomplished using water tenders. SRFPD is governed by a five-member elected Board of Directors, which assumes responsibility for the adoption of this plan and will oversee its implementation.

10.2.1 Service Area and Trends

The SRFPD service area roughly corresponds to the Smith River Planning Area and the Hiouchi Planning Area as identified in the hazard mitigation planning process. The district is bounded on the north by the Oregon state border, on the west by the Pacific Ocean, on the south by the Smith River, and on the east at about mile marker 8 on US Hwy 199. SRFPD is first due in a 59-square-mile area that includes the primary district boundaries (27 square miles), and a sphere of influence area (32 square miles). The district consists of rural residential and agricultural occupancies and areas of remote wildland.

The Smith River and Hiouchi Census Designated Places (CDP) are within the FPD Boundary. The District extends beyond these CDPs, and they use census block data and tax roll information for population estimates. For consistency with other population estimates, in the MSR, a District census based population is 3,300. The District reports a higher population of 4,039, based on approximately

DRAFT

1,590 occupied structures on Del Norte County tax rolls and an average persons per household is 2.54.

The SRFPD owns the land on which the main fire station (Station One) in Smith River is located (approximately 2 acres), with an interior space of approximately 21,000 square feet. In Hiouchi, the district owns a wood frame building (Station Two) that is located on land owned by the US Park Service under a Special Use Permit. The district also owns a 4,000-square-foot former fire station in Smith River that the district intends to dispose of as excess property.

The SRFPD is included in both the County of Del Norte General Plan and the Tolowa Dee Ni' Nation area plan. Both plans anticipate residential and visitor-serving commercial growth in the SRFPD service area. While such growth is not quantified, it is anticipated to increase the number of housing units within the service area, as well as increase commercial facilities, thus presenting a potential increase in the demand for fire protection services.

10.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores, hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

In addition to that work, the District partnered with the Smith River CSD and the County to post information about the HMP update in the few public services available in Smith River, including the United Indian Health Services Office and the local laundromat. Figure 10-1 shows selected outreach efforts and Appendix A includes all outreach efforts.

10.3.1 Public Feedback Integration

Of the 196 responses to the public survey, 12 respondents reported that they received services from the District. These respondents were extremely or very concerned about earthquakes, excessive rain, extreme wind, flooding, landslides, tsunamis, and wildfires. They reported receiving emergency information through mass notifications, government websites and newsletters, public meetings, Facebook, and local media outlets. They expressed concern about natural hazards causing power outages, the impact of natural hazards on the few roads that service the County, and vulnerable populations living with higher risk to natural hazards. The mitigation strategy incorporated the community's greatest concerns and the public outreach strategy was designed with community limitations in mind.

DRAFT

Figure 10-1. Public Outreach by Smith River Fire Protection District



10.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. In addition to that work, the District invited stakeholders to participate in the planning process. The following organizations were invited to participate by attending a Steering Committee meeting, responding to the stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan.

10.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Del Norte County Office of Emergency Services
- California Governor's Office of Emergency Services
- CAL FIRE
- Caltrans

10.4.2 Agencies that Have the Authority to Regulate Development

- Del Norte County Planning Division

10.4.3 Neighboring Communities

- Fort Dick Volunteer Fire Department
- Harbor, OR Rural Fire District
- Gasquet Fire Protection District
- Smith River Community Services District (Smith River)
- Big Rock Community Services District (Hiouchi)

10.4.4 Representatives of Business, Academia, and Other Private Organizations

- Smith River School (School District)
- Del Norte Ambulance

10.4.5 Nonprofit Organizations and Community-Based Organizations

- Del Norte County & Tribal Lands Community Food Council

10.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Smith River Community Services District performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

DRAFT

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Smith River Fire Protection District to identify opportunities for integrating mitigation concepts into ongoing District procedures.

10.5.1 Planning and Regulatory Capability and Integration

Table 10-2 summarizes the planning and regulatory tools that are available to Smith River Fire Protection District.

10.5.2 Building Codes, Land Use, and Development

Smith River Fire Protection District is a special district located in unincorporated Del Norte County. The District is subject to the Del Norte County and State of California building codes and land use regulations. The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, building code, land use, and development capabilities are not applicable to the District. The District does, however, participate in the permitting process as permits are issued by the County.

10.5.3 Administrative and Technical Capability

Table 10-3 summarizes potential staff and personnel resources available to Smith River Fire Protection District and their current responsibilities that contribute to hazard mitigation.

10.5.4 Fiscal Capability

Table 10-4 summarizes financial resources available to Smith River Fire Protection District.

10.5.5 Education and Outreach Capability

Table 10-5 summarizes the education and outreach resources available to Smith River Fire Protection District.

DRAFT

Table 10-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Building Code	Yes	California Building Code (2022) California Fire Code (2022) California Health and Safety Code	State	Del Norte County Building Safety
The California Building Code (CBC) contains general building design and construction requirements relating to fire and life safety, structural safety, and access compliance. CBC provisions provide minimum standards to safeguard life or limb, health, property, and public welfare by regulating and controlling the design, construction, quality of materials, use and occupancy, location, and maintenance of all buildings and structures and certain equipment.				
Planning Documents				
Community Wildfire Protection Plan	Yes	Del Norte County Fire Safe Council Community Wildfire Protection Plan 2020	County	Del Norte County Fire Safe Council
This Community Wildfire Protection Plan (CWPP) provides a broad description of what is necessary for a fire to begin and how communities can defend themselves when faced with a wildfire. The Plan focuses on how fuel can be mitigated to enhance community safety. It outlines the steps necessary for ensuring that local fire suppression efforts are successful (e.g. residence addressing, adequate roads, proper turnarounds, secondary access, water supply, etc.).				
Continuity of Operations Plan	Yes	Continuity of Operations Plan (COOP), Smith River FPD annex.	County, with participation of special districts.	Del Norte County OES. For Smith River FPD: Geoffrey Antill.
The Continuity of Operations Plan (COOP) largely follows the National Incident Management System (NIMS) for emergency operations. The COOP goes beyond NIMS, however, in describing the means by which the organizational structure of the district is to respond in the event of the unavailability of various key members				
Strategic Plan	Yes	Smith River Fire Protection District Strategic Plan 2016-2026	District	Smith River Fire Protection District
The Strategic Plan identifies 14 strategic goals that will help the District achieve its mission of protecting life, property and the environment, bringing values to the communities it serves, and retaining active and well-qualified volunteers. The goals for protecting life, property, and the environment include: building organizational capacity; acquiring and maintaining adequate station facilities; improving radio communications; acquiring the best apparatus and equipment and maintaining them in excellent condition; and preparing for regional events, including an earthquake in the Cascadia Subduction Zone. The HMP aligns with the Strategic Plan by emphasizing community preparedness.				

DRAFT

Table 10-3. Administrative and Technical Capabilities

Resources	Available?	Comment
Administrative Capability		
Emergency Management/Public Safety Department	Yes	The district command staff participates with County OES in the event of a major incident. Chief Ron Simpson is the key contact.
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The district regularly visits schools within the district to provide fire prevention and safety information. Chief Ron Simpson is the key Contact.
Mutual aid agreements	Yes	Automatic and mutual aid agreements in place with all adjoining districts, and the US Forest Service. Chief Ron Simpson is the key contact.
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	Yes	The Project Administrator's job description includes participation in the HMP process. Related grant writing and project management (performance) duties are included.
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Provided through contract support.
Engineers or professionals trained in building or infrastructure construction practices	Yes	Provided through contract support.
Planners or engineers with an understanding of natural hazards	Yes	Provided through contract support.
Staff with expertise or training in benefit/cost analysis	Yes	Projects Administrator, part-time
Professionals trained in conducting damage assessments	No	
Personnel skilled or trained in GIS and/or Hazus applications	Yes	Provided through contract support.
Staff that work with socially vulnerable populations or underserved communities	No	
Environmental scientists familiar with natural hazards	No	
Surveyors	Yes	Provided through contract support.
Emergency manager	Yes	Provided through contract support.
Grant writers	Yes	Projects Administrator, part-time
Resilience Officer	No	
Other (this could include stormwater engineer, environmental specialist, etc.)	No	

DRAFT

Table 10-4. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Other federal or state funding programs	Yes
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Share in general property tax revenue

Table 10-5. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	Yes	PIO Elaine Fallgren
Personnel skilled or trained in website development	Yes	Projects Administrator, Geoffrey Antill
Hazard mitigation information available on your website	Yes	Linked plan
Social media for hazard mitigation education and outreach	No	
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Fire Safe Council; Neighborhood Watch
Warning systems for hazard events	Yes	Station siren, use of “IamResponding” for text notifications, recording of relevant radio dispatches.
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	Yes	Outreach to elementary schools, generally during October (Fire Prevention Month). Participation in local events such as Tolowa Dee-ni’ Days in September.

10.5.6 Community Classifications

Table 10-6 summarizes classifications for community programs available to Smith River Fire Protection District.

DRAFT

Table 10-6. Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System (CRS)	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	N/A	N/A	N/A
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Rating of 5/5Y	2016
National Weather Service StormReady Certification	N/A	N/A	N/A
Firewise Communities classification	N/A	N/A	N/A
Other: Organizations with mitigation focus (advocacy group, non-government)	N/A	N/A	N/A

N/A = Not applicable

10.5.7 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 10-7 summarizes the adaptive capacity for each identified hazard of concern and the District's capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

Table 10-7. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Weak
Extreme Heat	Weak
Extreme Wind	Moderate
Excessive Rain	Moderate
Earthquake	Weak
Flood	Moderate
Landslide	Weak
Tsunami	Moderate
Wildfire	Moderate

DRAFT

10.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Smith River Fire Protection District is a special district for unincorporated Del Norte County. The District does not participate in the NFIP directly. Therefore, all structures located within the District's jurisdiction were included in the Del Norte County assessment of NFIP-insured structures with repetitive loss. This information can be found in Section 2.6.

10.7 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of Smith River Fire Protection District's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

10.7.1 Hazard Area

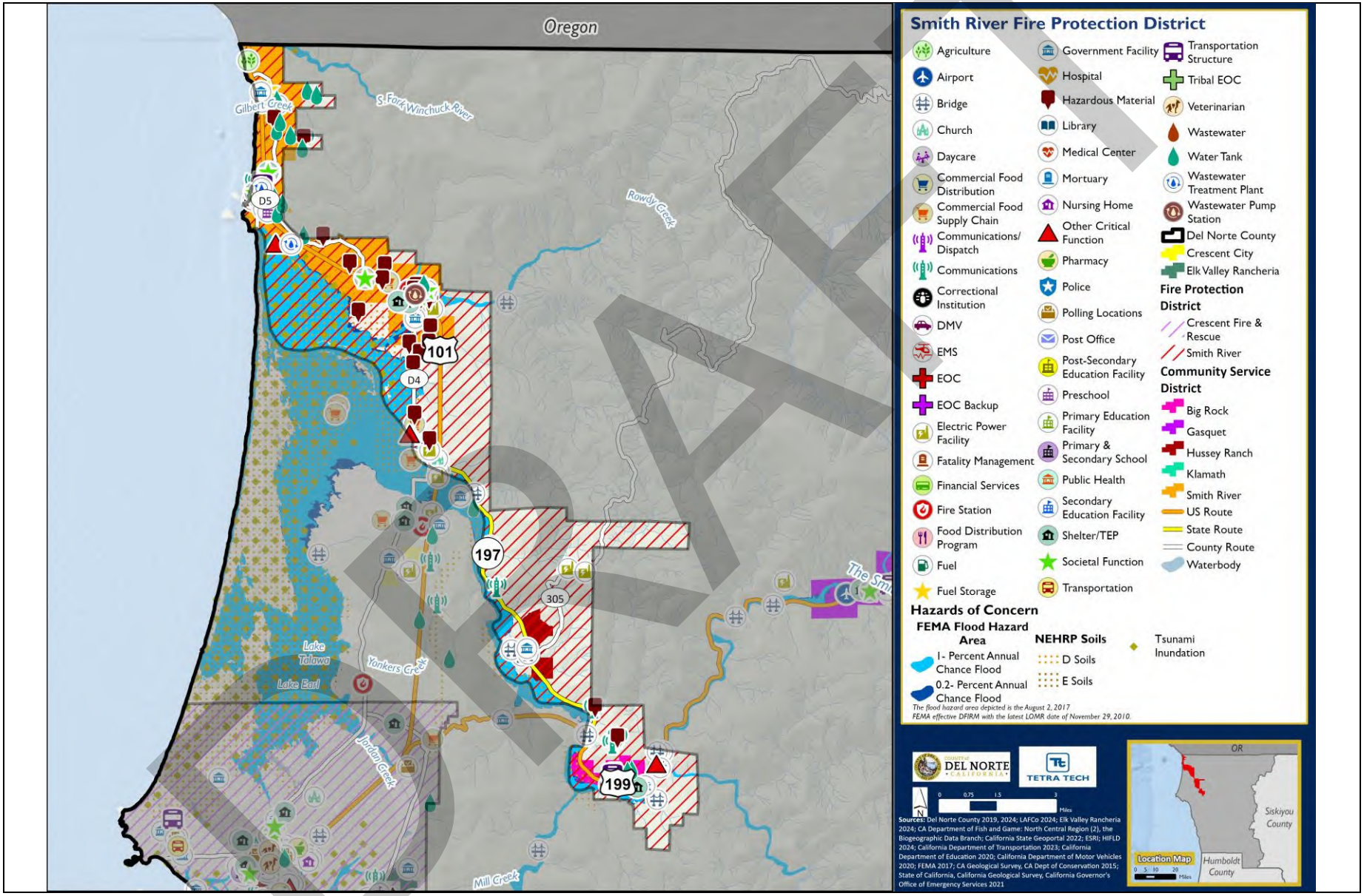
Hazard area maps provided below illustrate the probable hazard areas impacted within the District are shown in Figure 10-2 and Figure 10-3. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Smith River Fire Protection District has significant exposure. The maps show the location of potential new development, where available.

10.7.2 Hazard Event History

The history of natural and non-natural hazard events in Smith River Fire Protection District is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 10-8 provides details on loss and damage in Smith River Fire Protection District during hazard events since the last hazard mitigation plan update.

DRAFT

Figure 10-2. Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location



DRAFT

Figure 10-3. Wildfire and Landslide Hazard Area Extent and Location

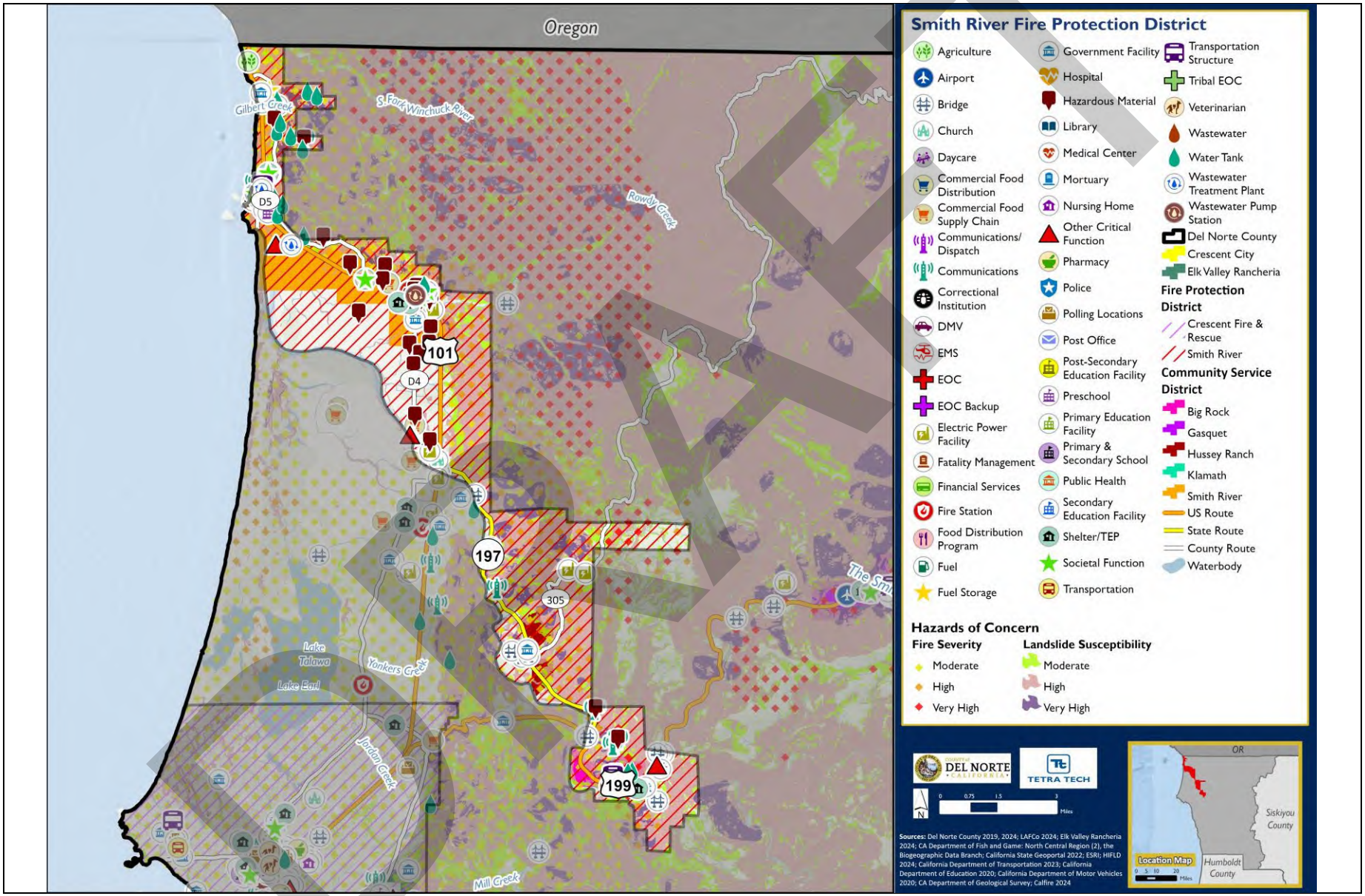


Table 10-8. Hazard Event History in Smith River Fire Protection District

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Smith River Fire Protection District
February 24 to March 1, 2019	Severe Storm DR-4434-CA	Yes, Federal	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	Responded to US Hwy 101 for motor vehicle accident (MVA) on 2/26/19. Debris slides closed US Hwy 199 and state highway 197 intermittently.
January 20, 2020 to May 11, 2023	Pandemic (COVID-19) DR-4482-CA EM-3428-CA	Yes, Federal	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023.	Experienced shortage of medical PPE throughout the pandemic. Staffing became an issue at several times due to firefighters in quarantine for COVID-19. Call volume decreased early in the pandemic but experienced a surge within 6 months of this period. (Call volumes have not moderated since.)
September 4 to November 17, 2020	Wildfire DR-4569-CA CA20-3	Yes, State and Federal	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	Assigned to structure protection duties during the Slater Fire. Committed one engine and one water tender for approximately 1 week. US Hwy 199 was under full closure for more than a week. US Hwy 199 was subject to repair closures intermittently for over a year.
November 7, 2022	Hail	No	Traffic crash due to hail covered roads. No injuries.	Responded to motor vehicle accident (MVA) on Fred Haight Drive. Closed Fred Haight Drive for about two hours.
December 9 to 10, 2022	High Wind	No	Tree fell on vehicle causing crash. Power lines down across Highway 197 and 199 due to high wind gusts.	Responded to power lines down on CA Hwy 197. Closed CA 197 for two hours. Responded to big rig motor vehicle accident on US Hwy 199. Closed US Hwy 199 for approximate two-one-half hours.

DRAFT

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Smith River Fire Protection District
December 27, 2022 to January 31, 2023	Flood DR-4683-CA CA23-1	Yes, State and Federal	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	Experienced intermittent power outages at Fire Stations 1 and 2, delaying response times. Responded to ten (10) power lines/ power pole down incidents. US Hwy 199 was closed in three of these incidents; US Hwy 101 was closed in one incident. Surface street closures in other incidents. Responded to two separate motor vehicle accidents; one that closed US Hwy 199 and one that closed CA Hwy 197.
February 21 to July 10, 2023	Severe Storm, Flood DR-4699-CA EM-3592-CA CA23-3	Yes, State and Federal	Severe storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199.	February 23, 2023, at about 3:00PM, a weather cell passed through the Fort Dick and Smith River area, dropping nearly a foot of snow. The result was numerous traffic accident and mutual aid calls, closing US Hwy 101 for about 3 hours, and CA Hwy 197 for about 10 hours. Intermittent power outages hampered response times to other medical assistance calls. Responded to 14 motor vehicle accidents in this period, some closing US Hwy 101 and US Hwy 197 partially. Responded to 24 fire calls in this period, including 5 powerline/tree down resulting in partial or full closure of US Hwy 199, CA Hwy 197, and Fred Haight Dr.

DRAFT

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Smith River Fire Protection District
August 15, 2023	Wildfire CA23-5	Yes, State	Dry thunderstorms produced lightning strikes across the Six Rivers National Forest. 27 fires developed in the Gasquet Ranger District and grew rapidly, jumping Highway 199 causing a 3-week closure and resulting in the evacuation of the Town of Gasquet. The fire destroyed high-tension powerlines powering all of Del Norte County. The County was without power through August 25 when generators were installed. Main transmission lines were not repaired until September 10. The fire burned into October with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	After early morning lightning strikes (over 150), SRFPD responded to multiple vegetation fires within the district, and in mutual aid with Fort Dick FPD. Early in the afternoon, the district committed two engines to what became known as the SRF Smith River Complex Fire. They were committed to the US Forest Service under mutual aid for a week. Power to the entire county was cut and was not fully restored until early September. This increased our response times due to lack of electricity at Stations 1 and 2. US Hwy 199 was closed for several weeks, and intermittent road closures continued for almost 1 year.
January 13, 2024	High Wind	No	An atmospheric river resulted in 3 to 7 inches of rainfall in roughly 8 to 10 hours. This resulted in the highest flows on the Mad River and Redwood Creek since the 1970s. Widespread creek flooding occurred in Del Norte and Humboldt with multiple homes damaged or destroyed.	None.
March 1 to 6, 2024	High Wind, Heavy Rain, Debris Flow	No	A hailstorm produced significant rainfall, causing downed trees and landslides that block Highways 101 and 199 near Crescent City and Gasquet.	Responded on one powerline down call, and one motor vehicle accident on US Hwy 199.
March 23 to 24, 2024	High Wind, Heavy Rain	No	Rainfall and strong winds led to multiple instances of landslides. The storm downed a tree on Highway 199.	Closure of US Hwy 199.

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

10.7.3 Hazard Ranking

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for Smith River Fire Protection District.

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking

DRAFT

process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. Smith River Fire Protection District reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the District indicated the following:

- Wildfires in August 2023 caused power outages throughout the District.
- While drought and extreme heat contribute to wildfire ignitions, Smith River is not located in an area that suffers from extreme drought or dangerous temperatures.
- Due to the geography of the area, extreme winds can knock over trees and start landslides.
- Flooding and excess rain are common occurrences in the District.

Table 10-9 shows Smith River Fire Protection District's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 10-9. Hazard Ranking

Hazard	Rank
Drought	Low
Extreme Heat	Low
Extreme Wind	High
Excessive Rain	Medium
Earthquake	Medium
Flood	Low
Landslide	Medium
Tsunami	Medium
Wildfire	High

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

10.7.4 Identified Issues

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for the jurisdiction. The following issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- Earthquake
  - There is a risk of critical facility collapse, infrastructure damage, especially to older water pipes on which the SRFPD depends for firefighting capacity, and power disruption.
  - The district currently operates out of two fire stations; only one of which is compliant with critical facility codes and may be subject to damage as a result of earthquake.
- Wildfire

DRAFT

- The SRFPD would be responsible for fighting wildfires within its service area and would likely be called upon to assist in fighting wildfires outside of its service area as a result of both formal and informal mutual aid agreements.
- SRFPD is first due in a 59-square-mile area which is about half wildland area, and about a quarter wildland urban interface.
- Inland areas of the fire district do have some vulnerability to extreme heat or drought events. These are sparsely populated areas, and have no agricultural operations, other than logging.

- Landslide
  - The primary impact of landslides is the need for the SRFPD to respond to calls for emergency assistance and evacuation of residents trapped or potentially trapped by landslides. Response efforts may be hampered if roads are blocked by landslide debris.
  - The landslide hazard is a likely secondary outcome of the Earthquake and Severe Weather (or both) hazards.
- Excessive Rain
  - Power disruption can occur as a result of severe weather events. Experience with power outages is that they can last 48 to 72 hours during severe weather.
- Flood
  - Localized flooding is often an issue during severe winter weather, sometimes isolating neighborhoods.
- Extreme Wind
  - Downed trees and power lines are common and often block major roads. In these cases, SRFPD is likely to be called upon for evacuation of isolated areas and traffic control on roads.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

10.8 CONDITIONS THAT MAY IMPACT RISK

10.8.1 Population Pattern Trends

The District is located along California's Redwood and Wild Rivers coastline and has a visitor influx during the summer months (and similar visitor increases during the winter months). Visitor accommodations include hotels, a casino, RV and camping sites. There is also an increase in highway travelers. The District is only accessible via US Hwy 101 and US Hwy 199 with a transient population estimated at 1,607. In a major seismic event, road and bridge closures would block transient population ingress or egress. This population may be stranded for anywhere from a few hours to several weeks. This increases District services demands, especially for emergency services.

DRAFT

10.8.2 Changes in Land Use and Development

The area serviced by the District is primarily agricultural, commercial timber production lands, recreation areas, and residential developments. There are areas of light industrial and commercial areas within the District. Opportunities for growth exist, but physical hazards and constraints such as flood plains and hillsides are barriers to growth.

Smith River Fire Protection District is a special district for unincorporated Del Norte County. The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, changes in development that have occurred in hazard-prone areas located within the District's jurisdiction were included in the Del Norte County Growth/Development Trends. This information can be found in Section 2.8.2.

10.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

10.9.1 Past Mitigation Action Status

Table 10-10 indicates progress on the District's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

10.9.2 Additional Mitigation Efforts

Since the adoption of the County's first HMP, Smith River Fire Protection District has made significant mitigation progress in the following areas:

- Completed Continuity of Operations Plan – 2018
- Acquired and renovated an earthquake resistant building to replace existing Fire Station 1
- Installed vinyl roofing on main fire station that reduces heat in the building

DRAFT

Table 10-10. Status of Previous Mitigation Actions

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
SRFPD-1	Install power generation at critical facilities, including the new headquarters station. May include purchase of generators as well as study of feasibility of wind/solar generation facilities in the Smith River area in partnership with Smith River Community Services District.	SRFPD	Station #1 generator: BCA produced a positive and significant benefit, however CalOES declined to forward the grant application since construction of Station #1 was still on-going. Station #2 generator: BCA produced a positive and significant benefit, but National Park Service (who owns the land) would not agree to a lease term longer than 5-years. This reduced a positive 20-year BCA to a negative benefit.	Yes No	SRFPD intends to re-apply for a generator at Station #1, as soon as construction is completed. SRFPD will not pursue a generator at Station #2 because the land on which the station exists is under a renewable 5-year lease from the US Park Service.	All

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
SRFPD-2	Where appropriate, support retrofitting, purchase or relocation of critical facilities located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard. SRFPD is presently evaluating the feasibility of relocating its Station One to a building that can be upgraded to critical facilities earthquake standards. SRFPD intends to evaluate its Station Two for retrofit to critical facility standards.	SRFPD	Station 1: The decision was made to move in to an existing building which substantially meets seismic standards, and to perform any necessary improvements to meet "critical facility" standards. Structural improvements to the new building are underway, and It is anticipated that the district will occupy that space in early 2025. HMA grant application was made, but the cost of grant qualification studies outweighed the potential for grant funding for this project. Station 2: This station is a wood frame building, built in 1985. It is not viewed as a significant seismic risk. In addition, it exists on land that is occupied under a 5-year renewable use permit, which is only renewed in 5-year increments. The BCA to any improvements to this building need to be positive over a 5-year term.	Yes Yes	Once the structural work is completed on the new station (renovated building), it is anticipated that other hazard mitigation projects related to the building may need to be undertaken. While the BCA of any improvements are limited by the 5-year use permit, it is expected that some improvement projects may need to be undertaken.	Seismic hazards. Loss of grid power secondary to: Wildfire Wind Event Landslide Event Flooding Event Facility damage secondary to: Wildfire Wind Event Flooding Event

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
SRFPD-3	Enhance first-due wildland fire fighting capability. Acquire Type 3 fire-fighting apparatus and increase training of fire fighters. Increase coordination with other agencies in the region.	SRFPD	SRFPD has acquired two Type-6 engines (which have been deployed to the SRF Smith River Complex Fire, and other local wildland fire starts). In addition, in 2024, SRFPD acquired a Type-2 engine specifically to address both structure fire protection and wildland fire response in the Station 2 area. Wildland firefighting training is coordinated with other districts in Del Norte County, and with USFS and CalFire. Training is renewed annually, and much more can be done to see improvements.	Yes	Improvements in training regimen are still possible. Recruitment programs for wildland firefighters are needed.	Wildfire Event
SRFPD-4	Map static water supplies greater than 2,000 gallons to support firefighting operations.	SRFPD	There has been little progress on this task due to time constraints, equipment costs, and training. Only this year has SRFPD began to address these issues, working with Smith River CSD.	Yes	The project description is unchanged.	Wildfire Event Structure protection
SRFPD-5	Support alternative communication facilities at each fire station (ham radio room & antenna).	SRFPD	SRFPD has collaborated with Gasquet Fire District and the Del Norte County Sheriff's Office to install a repeater at Station 2. This repeater is intended to improve communication along the Hwy 199 corridor, which experiences the highest wildfire risk.	Yes	Relocate the new repeater to a location with better propagation. Upgrade equipment as communication standards evolve. Provide for emergency generation equipment to maintain communication during the loss of grid power.	Loss of grid power secondary to: Wildfire, Wind Event, Landslide Event, Flooding Event Facility damage secondary to: Wildfire, Wind Event, Flooding Event

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
SRFPD-6	Develop response plans for events that isolate some or all of the district, especially critical bridge failure or landslide run-out. This will include pre-planning scenarios, siting supply caches, preparing housing displaced persons, and planning for stranded visitors.	SRFPD	There has been no progress on this project due to time and budget limitations.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event (including Tsunami inundation of river bottoms)
SRFPD-7	Develop record keeping that identifies major events, damage, and resources.	SRFPD	There has been no progress on this project due to time and budget limitations.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event (including Tsunami inundation of river bottoms)
SRFPD-8	Public Education. Conduct public outreach to inform the public of hazards, mitigations, and response. Promote and support 72-hour self-sufficiency and defensible space and emergency access measures.	SRFPD	There has been no progress on this project due to time and budget limitations.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event (including Tsunami inundation of river bottoms)
SRFPD-9	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	TDN, Del Norte County OES	SRFPD participates in all County- and Tribal- level planning projects. This is an ongoing need.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event (including Tsunami inundation of river bottoms)
SRFPD-10	Support and participate in county-wide Continuity of Operations and Continuity of Government planning and initiatives.	SRFPD	SRFPD has participated in COOP/COG planning at the County-level. This is an ongoing and renewable need.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event (including Tsunami inundation of river bottoms)

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
SRFPD-11	Training of firefighters for structural collapse and landslide response. This mitigation will result in a more qualified response when time is of the essence and additional resources are hours away.	Del Norte County OES	There has been no progress on this project due to time and budget limitations.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event (including Tsunami inundation of river bottoms)
SRFPD-12	Training of firefighters for trench rescue (landslide). This mitigation will result in a more qualified response when time is of the essence and additional resources are hours away.	Del Norte County OES	There has been no progress on this project due to time and budget limitations.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event (including Tsunami inundation of river bottoms)
SRFPD-13	Training of firefighters and officers in damage assessment. This mitigation will support regional, state-wide and federal response efforts by providing reliable information during hazard events.	Del Norte County OES	There has been no progress on this project due to time and budget limitations.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event (including Tsunami inundation of river bottoms)
SRFPD-14	Develop local facilities for storage and distribution of emergency supplies. This mitigation addresses the geographic isolation of the district during hazard events.	SRFPD	There has been no progress on this project due to time and budget limitations.	Yes	The project description is unchanged.	Wildfire Event, Wind Event, Flooding Event, (including Tsunami inundation of river bottoms)

DRAFT

10.9.3 Changes in Priorities

- SRFPD1: Seismic retrofit of Station 1 of Smith River Fire Protection District was considered the highest priority in 2021. The district has completed this work since then, so this is no longer a priority for SRFPD.
- SRFPD2: The highest priority for SRFPD in 2025 is ensuring that both Station 1 and Station 2 have emergency power back-up. The district has already experienced extended power outages (Smith River Complex Fire of 2023) which highlight the need to complete this Mitigation Action Item.
- SRFPD4: Mapping of evacuation routes is substantially completed with the installation of the Genesys system (ZoneHaven) by the County of Del Norte. SRFPD participated in this installation.
- SRFPD8: Acquisition of a radio repeater in the Hiouchi area is substantially complete, however moving the repeater to a location with better radio coverage is still a high priority.
- SRFPD9: The district has acquired two Type-6 engines (one for each fire station), and one Type-2 engine at the Hiouchi station. The need for a Type-3 engine is substantially reduced by these acquisitions, so the priority of this item is reduced.
- All other Mitigation Action Plan items remain a priority for SRFPD.

10.9.4 Proposed Hazard Mitigation Actions for the HMP Update

Smith River Fire Protection District participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 “Selecting Appropriate Mitigation Measures for Floodprone Structures” (March 2007)
- FEMA “Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards” (January 2013).

The action worksheets included at the end of this annex list the mitigation actions that Smith River Fire Protection Services District would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in District priorities.

Table 10-11 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 10-12 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

DRAFT

Table 10-11. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Drought	SRFPD-9, SRFPD-10			
Earthquake	SRFPD-5, SRFPD-6, SRFPD-7, SRFPD-9, SRFPD-10	SRFPD-1		SRFPD-8
Excessive Rain	SRFPD-7, SRFPD-9, SRFPD-10	SRFPD-1		SRFPD-8
Extreme Heat	SRFPD-9, SRFPD-10			
Extreme Wind	SRFPD-5, SRFPD-7, SRFPD-9, SRFPD-10	SRFPD-1, SRFPD-2		SRFPD-8
Flood	SRFPD-5, SRFPD-6, SRFPD-7, SRFPD-9, SRFPD-10	SRFPD-1, SRFPD-2		SRFPD-8
Landslide	SRFPD-5, SRFPD-6, SRFPD-7, SRFPD-9, SRFPD-10, SRFPD-11	SRFPD-1, SRFPD-2		SRFPD-3, SRFPD-8
Tsunami	SRFPD-5, SRFPD-6, SRFPD-7, SRFPD-9, SRFPD-10	SRFPD-1		SRFPD-8
Wildfire	SRFPD-4, SRFPD-5, SRFPD-6, SRFPD-7, SRFPD-9, SRFPD-11	SRFPD-1, SRFPD-2		SRFPD-3, SRFPD-8

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.

Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.

Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Table 10-12. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Public Outreach	Low	Medium	1	1-5 years	7.077	High
Maintain HMP	Low	Medium	1	1-5 years	7.077	High
Continuity Planning	Low	Medium	1	1-5 years	7.077	High
Emergency Generators	High	High	4	1-5 years	6.308	Medium
Station Hardening	High	High	3	1-5 years	6.231	Medium
Expand Communications Capabilities	High	High	3	1-5 years	6.231	Medium
Training and Recruitment	Medium	Medium	2	1-5 years	6.154	Medium
Map Water Supplies	Medium	Medium	2	1-5 years	6.154	Medium
Isolated Community Plans	Medium	Medium	1	1-5 years	6.077	Medium
Emergency Supplies	Medium	Medium	1	1-5 years	6.077	Medium
Implement CWPP	Medium	Medium	1	1-5 years	6.077	Medium
Disaster Recordkeeping	Medium	Low	1	1-5 years	5.077	Medium

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

DRAFT

10.9.5 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

SRFPD-1 Emergency Generators

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Building and Safety	
Hazards of Concern:	☐Drought ☒Earthquake ☐Extreme Heat ☒Excessive Rain ☒Extreme Wind	☒Flood ☒Landslide ☒Tsunami ☒Wildfire
Description of the Problem:	Pacific Power & Light provides electrical service to Del Norte County via two transmission lines that roughly parallel US Hwy 199 from Oregon. These powerlines are in the same transmission corridor and share the same towers. As such, they are vulnerable to many Hazards of Concern which may interrupt electrical service in the County. Smith River Fire Protection District (SRFPD) operates two fire stations, serving a combined area of 59 square miles. During power outages, the ability for emergency response from these stations is severely curtailed.	
Description of the Solution:	Installation of emergency generators at both fire stations will avoid interruptions in emergency response resulting from power outages that are secondary to Earthquake, Excessive Rain, Extreme Wind, Flood, Landslide, Tsunami, or Wildfire. SRFPD will work with electrical and structural engineers to design emergency generation at both of its stations. SRFPD will work with an engineering firm to calculate Benefit Cost Analysis for the designed project. SRFPD will work with the successful bidder to install the generation system, consistent with Building and Safety guidelines.	
Estimated Cost:	High	
Potential Funding Sources:	Hazard Mitigation Grants (CalOES), EMPG grant, district reserve funds as matching funds if necessary.	
Implementation Timeline:	(1-5 years)	
Objectives Met:	1,2,4,5	
Benefits:	To be calculated for projects using BCA tool provided by FEMA. Action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	Adding emergency generation to fire stations will maintain the ability of these Critical Facilities to serve the community during power outages secondary to the listed Hazards of Concern. This action will increase the resiliency of a critical facility and support the Safety and Security Community Lifeline.	
Impact on Capabilities:	Adding emergency generation to fire stations will maintain emergency response capabilities during power outages secondary to the listed Hazards of Concern.	
Climate Change Considerations:	System design will use up-to-date technology that minimizes emissions.	
Mitigation Category	☐Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐Natural Systems Protection (NSP) ☐Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRFPD-2 Station Hardening

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐ Drought ☐ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒Wildfire
Description of the Problem:	Station 1: The decision was made to move in to an existing building which substantially meets seismic standards, and to perform any necessary improvements to meet "critical facility" standards. Structural improvements to the new building are underway, and it is anticipated that the district will occupy that space in early 2025. HMA grant application was made, but the cost of grant qualification studies outweighed the potential for grant funding for this project. Station 2: This station is a wood frame building, built in 1985. It is not viewed as a significant seismic risk. In addition, it exists on land that is occupied under a 5-year renewable use permit, which is only renewed in 5-year increments. The BCA to any improvements to this building need to be positive over a 5-year term.	
Description of the Solution:	Where appropriate, support retrofitting, purchase or relocation of critical facilities located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard. Once the structural work is completed on the new station (renovated building), it is anticipated that other hazard mitigation projects related to the building may need to be undertaken. While the BCA of any improvements on Station 2 are limited by the 5-year use permit, it is expected that some improvement projects may need to be undertaken.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary.	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	Action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will increase the resiliency of a critical facility and support the Safety and Security Community Lifeline.	
Impact on Capabilities:	This action will increase the capabilities of the District's first responders by ensuring the facility continues to operate during natural hazard events.	
Climate Change Considerations:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRFPD-3 Training and Recruitment

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	N/A	
Hazards of Concern:	☐ Drought ☐ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☐ Flood ☒ Landslide ☐ Tsunami ☒Wildfire
Description of the Problem:	Wildland firefighting training is coordinated with other districts in Del Norte County, and with USFS and CalFire. Training is renewed annually, and much more can be done to see improvements. Recruitment programs for wildland firefighters are needed.	
Description of the Solution:	Enhance first-due wildland fire fighting capability. Coordinate with other agencies and districts to support training and recruitment across the region. Train firefighters for structural collapse, landslide response, and trench rescue. Train firefighters and officers in damage assessment.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	1,4	
Benefits:	Action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population. This mitigation will result in a more qualified response when time is of the essence and additional resources are hours away.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will increase the readiness of first responders in the District and across the region, supporting the Safety and Security lifeline.	
Impact on Capabilities:	This action will increase the capabilities of the District's first responders by training them to respond to a variety of wildfire conditions and will support regional, state-wide and federal response efforts by providing reliable information during hazard events.	
Climate Change Considerations:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☒ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRFPD-4 Map Water Supplies

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Smith River Community Services District, Del Norte County Planning Department	
Hazards of Concern:	☐ Drought ☐ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☐ Flood ☐ Landslide ☐ Tsunami ☒Wildfire
Description of the Problem:	District staff do not have a map of water storage that may be used for firefighting.	
Description of the Solution:	Map static water supplies greater than 2,000 gallons to support firefighting operations.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	1,4	
Benefits:	Action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will support the Safety and Security lifeline.	
Impact on Capabilities:	This action will expand the ability of the District to fight large fires.	
Climate Change Considerations:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRFPD-5 Expand Communications Capabilities

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☒ Tsunami ☒Wildfire
Description of the Problem:	Communications equipment does not work during power outages and was not sufficient to handle the 2023 August wildfires without outside support.	
Description of the Solution:	Support alternative communication facilities at each fire station. Relocate the new repeater to a location with better propagation. Upgrade equipment as communication standards evolve. Provide for emergency generation equipment to maintain communication during the loss of grid power.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	Action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will expand the Communications Lifeline capabilities within the District and County by providing redundant and resilient communications.	
Impact on Capabilities:	This action will expand the ability of the District to fight large fires.	
Climate Change Considerations:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRFPD-6 Isolated Community Plans

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☒ Flood ☒ Landslide ☒ Tsunami ☒Wildfire
Description of the Problem:	There are very rural areas of the District that may be cut off from the rest of the County during a natural disaster.	
Description of the Solution:	Develop response plans for events that isolate some or all of the district, especially critical bridge failure or landslide run-out. This will include pre-planning scenarios, siting supply caches, preparing housing displaced persons, and planning for stranded visitors.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	2	
Benefits:	Action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will expand the Safety and Security Lifeline capabilities.	
Impact on Capabilities:	This action will enhance the District's ability to support rural and isolated communities during natural hazard events.	
Climate Change Considerations:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRFPD-7 Disaster Recordkeeping

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☒ Tsunami ☒Wildfire
Description of the Problem:	The District does not have a comprehensive record of prior disasters, the level of damage experienced, and the costs associated with the incident.	
Description of the Solution:	Develop record keeping that identifies major events, damage, and resources.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	5	
Benefits:	Long-term benefits of the action are difficult to quantify in the short term.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will support the Safety and Security lifeline.	
Impact on Capabilities:	This action will support grant applications and provide a comprehensive history of disasters in the District.	
Climate Change Considerations:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRFPD-8 Public Outreach

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☒ Tsunami ☒Wildfire
Description of the Problem:	During the August 2023 wildfires, residents within the District were unprepared for the wildfire response.	
Description of the Solution:	Conduct public outreach to inform the public of hazards, mitigations, and response. Promote and support 72-hour self-sufficiency and defensible space and emergency access measures.	
Estimated Cost:	Low	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	3	
Benefits:	Action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will support the Safety and Security lifeline.	
Impact on Capabilities:	This action will foster community resilience.	
Climate Change Considerations:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☒ Education and Awareness Programs (EAP)
Priority	High	

DRAFT

SRFPD-9 Maintain HMP

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☒ Drought ☒ Earthquake ☒ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☒ Tsunami ☒Wildfire
Description of the Problem:	The District must stay engaged in the Hazard Mitigation Plan annual maintenance cycle.	
Description of the Solution:	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	
Estimated Cost:	Low	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	1	
Benefits:	Action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will support the Safety and Security lifeline.	
Impact on Capabilities:	N/A	
Climate Change Considerations:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	High	

DRAFT

SRFPD-10 Continuity Planning

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☒ Drought ☒ Earthquake ☒ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☒ Tsunami ☒Wildfire
Description of the Problem:	The District must stay engaged in County continuity planning initiatives.	
Description of the Solution:	Support and participate in county-wide Continuity of Operations and Continuity of Government planning and initiatives.	
Estimated Cost:	Low	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	1	
Benefits:	Action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will support the Safety and Security lifeline.	
Impact on Capabilities:	N/A	
Climate Change Considerations:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	High	

DRAFT

SRFPD-11 Emergency Supplies

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐ Drought ☐ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☐ Flood ☒ Landslide ☐ Tsunami ☒Wildfire
Description of the Problem:	During the August 2023 wildfires, the area needed significant support to obtain emergency supplies.	
Description of the Solution:	Develop local facilities for storage and distribution of emergency supplies. This mitigation addresses the geographic isolation of the district during hazard events.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	1	
Benefits:	Action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will support the Safety and Security lifeline.	
Impact on Capabilities:	N/A	
Climate Change Considerations:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRFPD-12 Implement CWPP

Lead Agency:	Smith River Fire Protection District	
Supporting Agencies:	Del Norte County Office of Emergency Services	
Hazards of Concern:	☐ Drought ☐ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☐ Flood ☐ Landslide ☐ Tsunami ☒Wildfire
Description of the Problem:	The Smith River Fire Protection District is a participant of the Del Norte County Community Wildfire Protection Plan. Wildfire capabilities, assets, and gaps are listed in the plan.	
Description of the Solution:	Implement the Smith River Action Plan of the Del Norte County Community Wildfire Protection Plan, including but not limited to generators, retrofitting, firefighting equipment, training, evacuation routes, defensible space, and hazard signage.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Grant Program, FEMA Emergency Management Performance Grant, district reserve funds as matching funds if necessary, staff time, general funds, CAL FIRE Wildfire Prevention Grant	
Implementation Timeline:	1-5 years	
Objectives Met:	1	
Benefits:	Action will provide a long-term reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	SRFPD serves a significant elderly population, many with medical issues, as well as a significant non-English speaking population.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will support the Safety and Security lifeline.	
Impact on Capabilities:	N/A	
Climate Change Considerations:	N/A	
Mitigation Category	☒ Local Plans and Regulations (LPR) ☐ Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

11. SMITH RIVER COMMUNITY SERVICES DISTRICT

This jurisdictional annex to the Del Norte County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Smith River Community Service District with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Smith River Community Service District, describes who participated in the planning process, assesses Smith River Community Service District's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

11.1 HAZARD MITIGATION PLANNING TEAM

The Smith River Community Service District identified primary and alternate HMP points of contact and developed this plan over the course of several months. Jeffrey Beard represented the community on the Del Norte County HMP Planning Partnership and Steering Committee and supported the local planning process by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 11-1 summarizes District officials who participated in the development of the annex and in what capacity. Additional documentation of the District's planning activities through Planning Partnership meetings is included in Volume 1.

Table 11-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Jeffrey Beard, General Manager Address: 241 W First Street, Smith River CA 95567 Phone Number: (707) 487-5381 Email: general.manager@srwater.net	Name/Title: LeeAnn Burcham, Office Manager Address: 241 First Street Smith River, CA 95567 Phone Number: 707-487-5381 Email: office.admin@srwater.com

11.2 COMMUNITY PROFILE

The Smith River Community Services District (SRCSD) was formed by Resolution of the Del Norte County Board of Supervisors on June 22, 1970 following an election on June 16, 1970. The special district was formed to provide potable water to district residents, although the organizing documents allow the District to expand its services to other areas as allowed by government code. On January 9, 1989, the SRCSD passed Resolution 89-1, Resolution of Intent to Establish Street Lighting Zone Within a Portion of the Smith River Community Services District, which allowed the SRCSD to provide street lighting services, primarily in the town of Smith River, California.

The SRCSD is governed by a five-member elected Board of Directors, which assumes responsibility for the adoption of this plan and will oversee its implementation. The SRCSD provides water service to approximately 600 connections, with an additional 150 standby customers who do not currently receive

DRAFT

water service. The SRCSD provides street lighting services to approximately 200 residents within the boundary of the street lighting zone. The SRCSD also owns the Smith River Community Hall, which houses the district offices and is available for private rental by District residents or for public events.

The SRCSD receives funds through user fees, revenue from the sale of water, property tax revenue, county share income and facility rental of the community hall. The SRCSD maintains three distinct budget units for water services, streetlights and the community hall.

1.1.1 Service Area and Trends

The Smith River CSD estimates a District population of approximately 2,568. The District will likely continue to grow at or less than the current county-wide growth rate of 0.1 percent per year, putting the District population at approximately 2600 in 2030.

Smith River CSD provides domestic water service to approximately 650 active connections as well as street lighting to a population of approximately 3,000 people in the unincorporated community of Smith River. Opportunities for growth exist, but constraints such as flood plains and hillsides are growth barriers. Some tribal related growth is anticipated is anticipated.

The SRCSD is included in both the County of Del Norte General Plan and the Smith River Rancheria Tribal area plan. Both plans anticipate residential and non-residential Visitor-Serving Commercial growth in the SRCSD service area. Such growth would cause an increase in the number of housing units within the service area, as well as an increase in commercial facilities, thus requiring an expansion of the district's service delivery system. It is anticipated that additional areas of development may wish to annex to the SRCSD. Such annexation would represent an increase in the size and value of the district's service area and an increase in the number of users. This type of growth would also require an expansion of the district's delivery system.

11.3 PUBLIC ENGAGEMENT

Volume 1 of this HMP describes the outreach to the public that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. Del Norte County is sparsely populated with the majority of government and private services available in Crescent City, including grocery stores, hardware stores, and restaurants. The County posted information about the HMP update on the County Facebook page and on the OES website. Flyers advertising the HMP update were canvassed across Crescent City. The public was invited to participate in the planning process by responding to the public survey, attending a virtual Steering Committee meeting, attending an in-person meeting, and reviewing the draft plan.

In addition to that work, the District partnered with the Smith River Fire Protection District and the County to post information about the HMP update in the few public services available in Smith River, including the United Indian Health Services Office and the local laundromat. Figure 11-1 shows selected outreach efforts and Appendix A includes all outreach efforts.

DRAFT

Figure 11-1. Public Outreach by Smith River Community Services District



11.3.1 Public Feedback Integration

Of the 196 responses to the public survey, seven respondents reported that they received services from the District. These seven respondents were extremely or very concerned about earthquakes, excessive rain, extreme wind, flooding, landslides, tsunamis, and wildfires. They reported receiving emergency information through mass notifications, government websites and newsletters, public meetings, and local media outlets. They expressed concern about natural hazards causing power outages and cell service disruption. The mitigation strategy was prioritized with these concerns and community limitations in mind.

11.4 STAKEHOLDER ENGAGEMENT

Volume 1 of this HMP describes the outreach to stakeholders that was undertaken on behalf of all participating jurisdictions to prepare this HMP update. In addition to that work, the District invited relevant stakeholders to participate in the planning process. The following organizations were invited to participate by attending a Steering Committee meeting, responding to the stakeholder survey, contributing information and expertise to the plan, and reviewing the draft plan.

11.4.1 Local and Regional Agencies Involved in Hazard Mitigation Activities

- Del Norte Local Agency Formation Commission
- Del Norte County Office of Emergency Services
- California Governor's Office of Emergency Services
- USDA Rural Development
- Rural Community Assistance Corporation
- Smith River Fire Protection District

11.4.2 Agencies that Have the Authority to Regulate Development

- Del Norte County Planning Division

11.4.3 Neighboring Communities

- Big Rock Community Services District
- Gasquet Community Services District
- HRC Community Services District
- Klamath Community Services District

11.4.4 Representatives of Business, Academia, and Other Private Organizations

- Smith River School (School District)
- Tolowa Dee-ni' Nation

DRAFT

11.4.5 Nonprofit Organizations and Community-Based Organizations

- American Red Cross

11.5 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Smith River Community Service District performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1 describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Smith River Community Service District to identify opportunities for integrating mitigation concepts into ongoing District procedures.

11.5.1 Planning and Regulatory Capability and Integration

As a special district in Del Norte County, the District follow County ordinances, codes, and regulations. Table 11-2 summarizes the planning and regulatory tools specific to Smith River CSD.

11.5.2 Building Codes, Land Use, and Development

Smith River Community Services District is a special district located in unincorporated Del Norte County. The District is subject to the Del Norte County and State of California building codes and land use regulations. The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, building code, land use, and development capabilities are not applicable to the District.

DRAFT

Table 11-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this?	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Code/Ordinance/Resolution	Yes	Resolution June 22, 1970; Resolution 89-1	County	Del Norte County Board of Supervisors
Resolution allows special district to be formed to supply potable water to district residents and street lighting services.				
Planning Documents				
Municipal Service Review	Yes	Smith River Community Services District Municipal Service Review and Sphere of Influence Update, September 2024	District	Smith River Community Services District
This Municipal Service Review and Sphere of Influence Update provides information about the services and boundaries of the Smith River Community Services District. The report is for use by the Del Norte Local Agency Formation Commission (LAFCo) in conducting a statutorily required review and update process. This report provides LAFCo with a tool to study current and future public service conditions comprehensively and to evaluate organizational options for accommodating growth, preventing urban sprawl, and ensuring that critical services are provided efficiently. The report references the HMP when discussing the District's infrastructure at risk of seismic activity.				

11.5.3 Administrative and Technical Capability

Table 11-3 summarizes potential staff and personnel resources available to Smith River Community Service District and their current responsibilities that contribute to hazard mitigation.

11.5.4 Fiscal Capability

Table 11-4 summarizes financial resources available to Smith River Community Service District.

11.5.5 Education and Outreach Capability

Table 11-5 summarizes the education and outreach resources available to Smith River Community Service District.

DRAFT

Table 11-3. Administrative and Technical Capabilities

Resources	Available?	Comment
Administrative Capability		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	
Mutual aid agreements	No	
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Engineer/GHD/PE, contract support
Engineers or professionals trained in building or infrastructure construction practices	Yes	Engineer/GHD/PE, contract support
Planners or engineers with an understanding of natural hazards	Yes	Engineer/GHD/PE, contract support
Staff with expertise or training in benefit/cost analysis	Yes	GHD, contract support
Personnel skilled or trained in GIS and/or Hazus applications	Yes	GHD, contract support
Environmental scientists familiar with natural hazards	Yes	GHD, contract support
Surveyors	Yes	GHD, contract support
Emergency manager	No	
Grant writers	Yes	GHD, contract support Consider the following: Are data and maps from the HMP used to support documentation in grant applications?

Table 11-4. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use?
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	Yes (Water, Street Lights)
Impact fees for homebuyers or developers of new development/homes	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Other federal or state funding programs	Yes
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Revenue from facility rental

DRAFT

Table 11-5. Education and Outreach Capabilities

Outreach Resources	Available?	Comment
Public information officer or communications office	Yes	
Personnel skilled or trained in website development	No	
Hazard mitigation information available on your website	No	
Social media for hazard mitigation education and outreach	No	
Citizen boards or commissions that address issues related to hazard mitigation	No	
Warning systems for hazard events	No	
Organizations that conduct outreach to socially vulnerable populations and underserved populations	Yes	
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	No	

11.5.6 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 11-6 summarizes the adaptive capacity for each identified hazard of concern and the District's capability to address related actions using the following classifications:

- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.

Table 11-6. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Drought	Weak
Extreme Heat	Weak
Extreme Wind	Weak
Excessive Rain	Weak
Earthquake	Weak
Flood	Weak
Landslide	Weak
Tsunami	Weak
Wildfire	Weak

DRAFT

11.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Smith River Community Services District is a special district for unincorporated Del Norte County. The District does not participate in the NFIP directly. Therefore, all structures located within the District's jurisdiction were included in the Del Norte County assessment of NFIP-insured structures with repetitive loss. This information can be found in Section 2.6.

11.7 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume 1 provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of Smith River Community Service District's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

11.7.1 Hazard Area

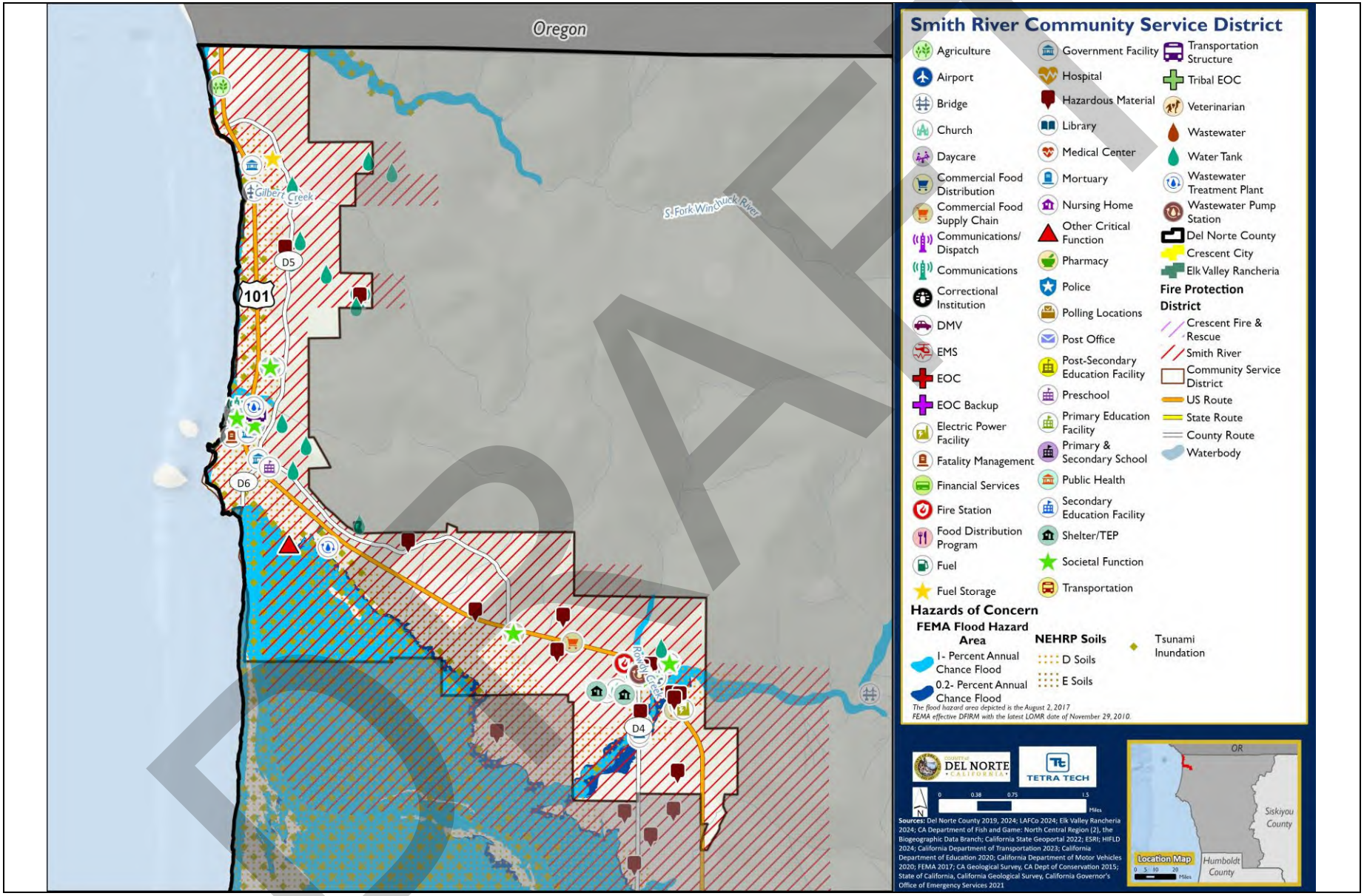
Hazard area maps provided below illustrate the probable hazard areas impacted within the District are shown in Figure 11-2 and Figure 11-3. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Smith River Community Service District has significant exposure.

11.7.2 Hazard Event History

The history of natural and non-natural hazard events in Smith River Community Service District is detailed in Volume 1, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 11-7 provides details on loss and damage in Smith River Community Service District during hazard events since the last hazard mitigation plan update.

DRAFT

Figure 11-2. Smith River Community Service District Flood, Tsunami, and NEHRP Soil Hazard Area Extent and Location



DRAFT

Figure 11-3. Smith River Community Service District Wildfire and Landslide Hazard Area Extent and Location

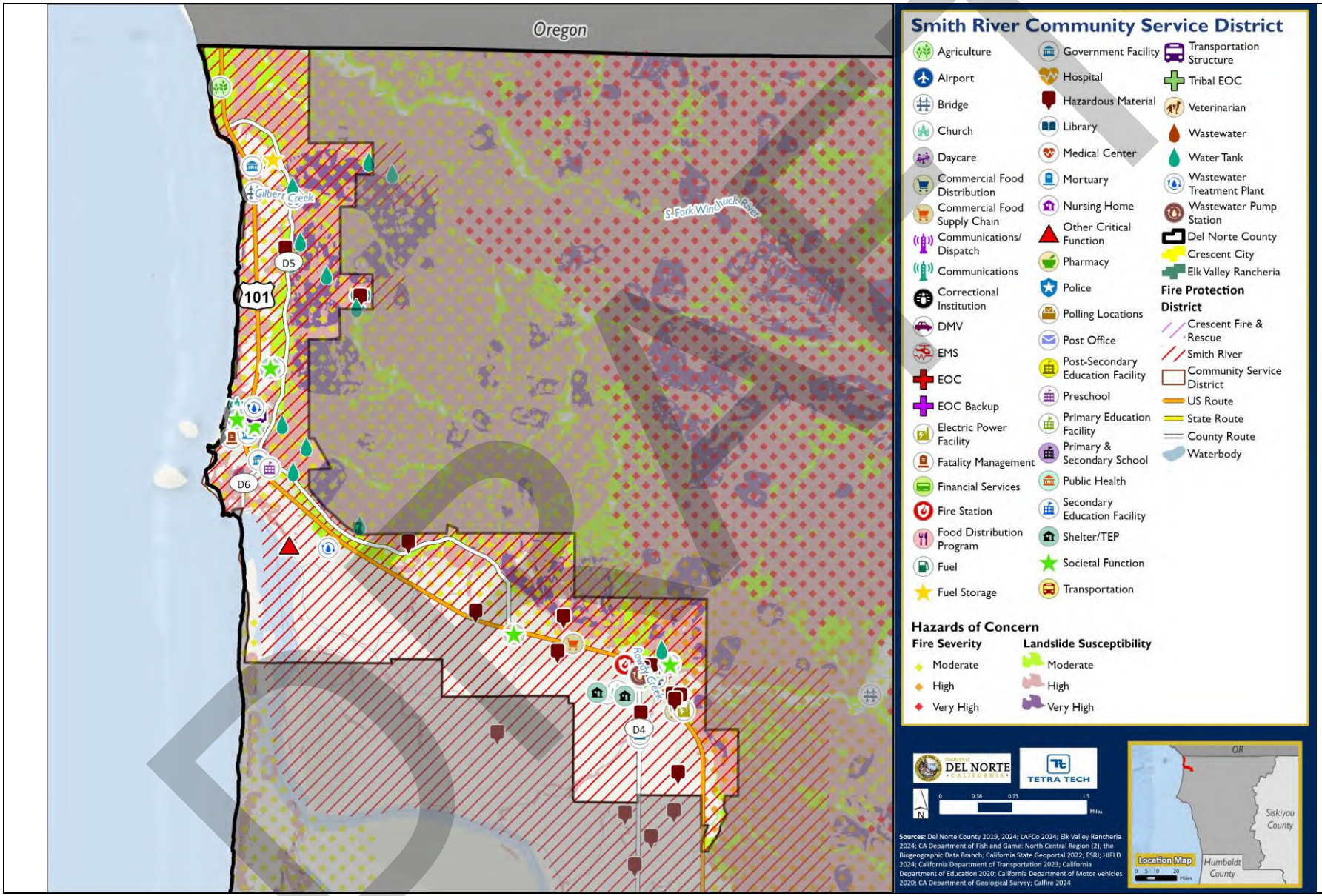


Table 11-7. Hazard Event History in Smith River Community Service District

Dates of Event	Event Type (Disaster Declaration)	County Designated ?	Summary of Event	Summary of Damage and Losses in Smith River Community Services District
February 24 to March 1, 2019	Severe Storm DR-4434-CA	Yes, Federal	An atmospheric river spread across northern California and produced heavy rain that led to localized flooding. Impacts included flooding on Highway 199 along the west shoulder and northbound lane.	None
January 20, 2020 to May 11, 2023	Pandemic (COVID-19) DR-4482-CA EM-3428-CA	Yes, Federal	The first confirmed case in California was reported on January 25, 2020. Del Norte County experienced surges in COVID-19 cases in December 2020, August to September 2021, January to February 2022, and July 2022. Overall, Del Norte reported 8,005 confirmed cases and 62 fatalities between 2020 and 2023.	None
September 4 to November 17, 2020	Wildfire DR-4569-CA CA20-3	Yes, State and Federal	Record-breaking hot temperatures exacerbated existing fire conditions, leading to drier conditions and allowing wind to facilitate the rapid spread of new fires. One complex, the Slater Fire, spread into Del Norte County and caused damage to roadways.	None
November 7, 2022	Hail	No	Traffic crash due to hail covered roads. No injuries.	None
December 9 to 10, 2022	High Wind	No	Tree fell on vehicle causing crash. Power lines down across Highway 197 and 199 due to high wind gusts.	None
December 27, 2022 to January 31, 2023	Flood DR-4683-CA CA23-1	Yes, State and Federal	Atmospheric river led to multiple heavy rainstorms and strong winds in late December and January. Strong wind caused multiple trees to fall, leading to blockages on Highways 101, 197, and 199, and Parkway Drive. Downed power lines caused multiple fires. Over 10,000 customers without power in and around Crescent City due to strong winds.	None
February 21 to July 10, 2023	Severe Storm, Flood DR-4699-CA CA23-3	Yes, State and Federal	Severe storms and high winds led to mudslides and landslides. Downed trees blocked portions of Highway 199.	None

DRAFT

Dates of Event	Event Type (Disaster Declaration)	County Designated ?	Summary of Event	Summary of Damage and Losses in Smith River Community Services District
August 15, 2023	Wildfire CA23-5	Yes, State	Dry thunderstorms produced numerous lightning strikes across the Six Rivers National Forest. Twenty-seven fires developed within the Gasquet Ranger District and grew in size rapidly in the first couple of weeks of the fire, jumping Highway 199 causing a 3-week closure and resulting in the evacuation of the town of Gasquet. The fire also destroyed the high-tension powerlines powering all of Del Norte County. The County was completely without power through August 25 when generators were installed to power the community. Main transmission lines were not repaired until September 10 when full power was restored. The fire continued to burn through September into October with fewer impacts to the community with a total of 95,000 acres burned plus 2 residences and 3 minor structures destroyed.	Power shut off for a week. Worked 24/7 to keep an eye on everything to make sure tanks functioned. Had to supply water to fire fighters. Increased diesel costs to run generators.
January 13, 2024	High Wind	No	An atmospheric river resulted in 3 to 7 inches of rainfall in roughly 8 to 10 hours. This resulted in the highest flows on the Mad River and Redwood Creek since the 1970s. Widespread creek flooding occurred in Del Norte and Humboldt with multiple homes damaged or destroyed.	None
March 1 to 6, 2024	High Wind, Heavy Rain, Debris Flow	No	A hailstorm produced significant rainfall, causing downed trees and landslides that block Highways 101 and 199 near Crescent City and Gasquet.	None
March 23 to 24, 2024	High Wind, Heavy Rain	No	Rainfall and strong winds led to multiple instances of landslides. The storm downed a tree on Highway 199.	None

EM = FEMA Emergency Declaration; DR = FEMA Major Disaster Declaration

11.7.3 Hazard Ranking

The hazard profiles in Volume 1 have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for Smith River Community Service District.

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume 1. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and

DRAFT

changing future climate conditions. Smith River Community Service District reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the District indicated the following:

- A large aquifer supply and consistent rainfall results in drought being less of a concern for the Smith River CSD than all other areas of the state.
- The coastal areas of Del Norte County maintain consistent temperatures year round and extreme heat events are almost non-existent in the Smith River CSD jurisdiction.
- Water tanks are the critical infrastructure that allows Smith River CSD to supply customers and those tanks are particularly at risk from high winds and earthquake.
- Excessive rain or flood have not historically impacted the jurisdiction, but an extreme event could create conditions that impact Smith River CSD's ability to provide water to its customers.
- Considering the remote locations of the water tanks, a landslide could cut off access to a tank and the CSD does not have the capability to control the tanks remotely.

Table 11-8 shows Smith River Community Service District's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 11-8. Hazard Ranking

Hazard	Rank
Drought	Low
Extreme Heat	Low
Extreme Wind	High
Excessive Rain	Medium
Earthquake	High
Flood	Medium
Landslide	Medium
Tsunami	Low
Wildfire	High

Note: The scale is based on the hazard rankings established in Volume 1, modified as appropriate based on review by the jurisdiction

11.7.4 Identified Issues

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for the jurisdiction. The following issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- Earthquake
  - The SRCSD Shop is located on Class D soils, which may be prone to liquefaction. Service provision may be disrupted due to a water main breaks resulting from an earthquake.

DRAFT

- The District's eight water storage tanks should be evaluated for seismic resilience, as most were not Constructed under the current seismic code, and the tanks may need retrofits or replacement.

- Extreme Wind
  - The SRCSD water tanks are located in remote locations and much of the water infrastructure must be controlled manually on-site. As a result, downed trees and branches from extreme wind has the potential to damage infrastructure or block access, resulting in a stoppage of water services to County and Tribal customers.
- Landslide
  - The Spyglass water pumping station and water storage tank are located in very high/existing landslide hazard areas.

Mitigation actions addressing these issues were prioritized for consideration in the action plan presented in the following section.

11.8 CONDITIONS THAT MAY IMPACT RISK

11.8.1 Population Pattern Trends

The Smith River CSD estimates a District population of approximately 2,568. The District will likely continue to grow at or less than the current county-wide growth rate of 0.1 percent per year, putting the District population at approximately 2,600 in 2030. Smith River CSD provides domestic water service to approximately 650 active connections as well as street lighting to a population of approximately 3,000 people in the unincorporated community of Smith River.

11.8.2 Changes in Land Use and Development

The area serviced by the Smith River CSD is primarily agricultural, commercial timber production lands, recreation areas, and residential developments. There are areas of light industrial and commercial areas, most of which are vacant. Opportunities for growth exist, but physical hazards and constraints such as flood plains and hillsides are barriers to growth.

The District does not permit or regulate development. Development permits within the District's jurisdiction are issued through Del Norte County. Therefore, changes in development that have occurred in hazard-prone areas located within the District's jurisdiction were included in the Del Norte County Growth/Development Trends. This information can be found in Section 2.8.2.

11.9 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

DRAFT

11.9.1 Past Mitigation Action Status

Table 11-9 indicates progress on the District's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

Table 11-9. Status of Previous Mitigation Actions

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
SRCSD-1	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard, including but not limited to vulnerable pipe and other water treatment/delivery infrastructure.	SRCSD	No Progress, funding needed	yes	Problem is infrastructure vulnerability to earthquakes, floods, wildfire, and severe storms	Multi-Hazard
SRCSD-2	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	SRCSD	Ongoing Capability	yes	Problem to be addressed is need for community coordination and understanding of hazards.	Multi-Hazard
SRCSD-3	Purchase generators for critical facilities and infrastructure that lack adequate back-up power. Also consider the use of wind/solar generation facilities.	SRCSD	Project has been completed.	No		
SRCSD-4	Replace wooden tanks with larger, stronger metal tanks, secure foundations, install additional hydrants.	SRCSD	No Progress, funding needed	yes	Problem is infrastructure vulnerability to earthquakes, floods, wildfire, and severe storms	Multi-Hazard
SRCSD-5	Develop secondary water sources and infrastructure outside of hazard zones; improve filtration system to respond to increased turbidity caused by flooding.	SRCSD	No Progress, funding needed	yes	Problem is infrastructure vulnerability to earthquakes, floods, wildfire, and severe storms	Multi-Hazard

DRAFT

Project #	Project	Responsible Party	Status	If incomplete, should action be included in the 2025 HMP?		
				Yes/ No	If yes, describe original problem and any action updates needed	Hazards of Concern addressed
SRCSD-6	New Radio Read Water Meters for the ability to track differential pressure in case of mainline breaks throughout the system which would indicate a leak thereby accelerating the process of repair.	SRCSD	Radio Read Meters being installed. Funding is through District CIP funds. Project is approximately 30% complete. District is replacing approximately 100 meters per year, with another 3 to 4 years to complete the replacements.	yes	Problem is infrastructure vulnerability to earthquakes, floods, wildfire, and severe storms	Multi-Hazard
SRCSD-7	Upgrade the existing SCADA system	SRCSD	No Progress, funding needed	yes	Problem is infrastructure vulnerability to earthquakes, floods, wildfire, and severe storms	Multi-Hazard
SRCSD-8	Install a complete emergency communications system along with a 70'-0" antenna tower for emergency HF/ VHF / UHF and simplex communications. The tower will feature a microwave antenna to perform SCADA operations.	SRCSD	No Progress, funding needed	Yes	Problem is community vulnerability to earthquakes, floods, wildfire, and severe storms with inability to contact outside support	Multi-Hazard

11.9.2 Additional Mitigation Efforts

In addition to the mitigation actions completed in Table 11-9, Smith River Community Service District identified the following mitigation efforts completed since the last HMP:

- Started the grant applications for a HMP to replace all 8 of the District water storage tanks
- Received grant funding for emergency backup power
- Installed one stationary generator for running the District well field and 2 mobile generators to run the District pump stations

11.9.3 Changes in Priorities

There have been no changes in priorities for Smith River Community Services District since the 2019 HMP update.

DRAFT

11.9.4 Hazards Not Included in District Mitigation Strategy

The Smith River Community Services District is a very small water utility district and does not have the capacity to design an all-hazards mitigation program. The District chose four targeted projects that will enhance the overall resilience of their water infrastructure to their hazards of greatest concern.

The District did not include actions for drought, extreme heat, or tsunami. The Smith River provides a consistent water supply and even when drought conditions exist elsewhere in the County, the water supply has not come close to impacting operations of the District. Extreme heat does not occur in the Smith River area in temperatures that would impact the water operations. Finally, the District's infrastructure is located outside of the tsunami hazard area.

11.9.5 Proposed Hazard Mitigation Actions for the HMP Update

Smith River Community Service District participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 "Selecting Appropriate Mitigation Measures for Floodprone Structures" (March 2007)
- FEMA "Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards" (January 2013)

The action worksheets included at the end of this annex list the mitigation actions that Smith River Community Service District would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in District priorities.

Table 11-10 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume 1 identifies four evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned for each of the evaluation criteria. Table 11-11 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

11.9.6 Mitigation Strategy

The following pages list the specific plan for each mitigation action, including the agency responsible for implementation, potential funding sources, and expected timeframe for completion.

DRAFT

Table 11-10. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category			
	LPR	SIP	NSP	EAP
Earthquake		SRCSD-1, SRCSD-2, SRCSD-4		
Excessive Rain		SRCSD-4		
Extreme Wind		SRCSD-1, SRCSD-4		
Flood		SRCSD-4	SRCSD-3	
Landslide		SRCSD-2, SRCSD-4		
Wildfire		SRCSD-1, SRCSD-2, SRCSD-4		

Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.

Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.

Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Table 11-11. Summary of Prioritization of Actions

Project Name	Cost	Benefit	Objectives	Time Frame	Score	Priority
Increase SCADA Capacity	Medium	High	3	1-5 years	7.6	High
Retrofit Facilities	High	High	4	1-10 years	5.8	Medium
Steel Tanks	High	High	3	1-10 years	5.6	Medium
Secondary Water Sources	High	High	3	1-10 years	5.6	Medium

Note: Volume 1 of the HMP provides guidance on prioritizing mitigation actions. Low (0-5), Medium (5-7), High (7-9).

DRAFT

SRCSD-1 Increase SCADA Capacity

Lead Agency:	Smith River CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☒ Excessive Rain ☒ Extreme Wind	☒ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	Currently, they only see main tanks and wells. Sub-developments, pump stations and tanks are not visible unless you go on-site and they have no remote control capabilities. If access to infrastructure is cut off from downed trees, landslides, or other hazards, the District cannot control the infrastructure. Last July the Rowdy Creek fish hatchery project hit a waterline and dameged10 feet. Del Norte County loaned the District a generator to keep water services on. The incident led to major water loss.	
Description of the Solution:	Increase the capacity and level of protection provided by the SCADA system. Install a complete emergency communications system along with a 70'-0" antenna tower for emergency HF/ VHF / UHF and simplex communications. The tower will feature a microwave antenna to perform SCADA operations.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-5 years	
Objectives Met:	1,2,4	
Benefits:	District would have full control of the water system and the ability to control water resources when access to sites is blocked. Action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the water supply in the area for Del Norte and Tribal residents.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	High	

DRAFT

SRCSD-2 Retrofit Facilities

Lead Agency:	Smith River CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☐ Flood ☒ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	The District's water tank, water lines, and other infrastructure are not mitigated against earthquakes and are located in areas at risk from landslides and wildfires.	
Description of the Solution:	Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas, prioritizing those structures that have experienced repetitive losses and/or are located in high or medium ranked hazard, including but not limited to vulnerable pipe and other water treatment/delivery infrastructure. Secure foundations, install additional hydrants.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-10 years	
Objectives Met:	1,2,4,5	
Benefits:	Increase the capacity and resilience of the District's water system to ensure residents have access to clean drinking water when hazard events occur. Action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the water supply in the area for Del Norte and Tribal residents.	
Impact on Capabilities:		
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRCSD-3 Steel Tanks

Lead Agency:	Smith River CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☐ Drought ☒ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☒ Extreme Wind	☐ Flood ☐ Landslide ☐ Tsunami ☒ Wildfire
Description of the Problem:	Vulnerable redwood tanks in heavily wooded areas and no seismic protection	
Description of the Solution:	Replace all 8 tanks with new steel tanks and clear defensible area around tanks sites	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-10 years	
Objectives Met:	1,2,4	
Benefits:	Protected water supply that feeds the entire Smith River CSD. Action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	Added capacity will allow for future developments in Smith River	
Impact on Critical Facilities/Lifelines:	Existing tanks are anywhere from 30-50 years old and at the end of their lifecycle	
Impact on Capabilities:	If tanks receive damage we will not be able to supply water to the community	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☐ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

SRCSD-4 Secondary Water Sources

Lead Agency:	Smith River CSD	
Supporting Agencies:	Del Norte County, State Water Resources Control Board	
Hazards of Concern:	☐ Drought ☐ Earthquake ☐ Extreme Heat ☐ Excessive Rain ☐ Extreme Wind	☒ Flood ☐ Landslide ☐ Tsunami ☐ Wildfire
Description of the Problem:	Existing water system does not have a filtration system. High turbidity prevents water treatments from cleaning water to ensure acceptable drinking standards are met.	
Description of the Solution:	Develop secondary water sources and infrastructure outside of hazard zones; improve filtration system to respond to increased turbidity caused by flooding.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA Hazard Mitigation Assistance programs	
Implementation Timeline:	1-10 years	
Objectives Met:	1,2,4	
Benefits:	Mitigates high water flows in Rowdy Creek, decrease E. Coli contamination. Action will provide an immediate reduction of risk for life and property.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	New housing cannot be built in the area without expanding the capacity of the existing water system.	
Impact on Critical Facilities/Lifelines:	Increases the resiliency and redundancy of the water supply in the area for Del Norte and Tribal residents.	
Impact on Capabilities:	N/A	
Mitigation Category	☐ Local Plans and Regulations (LPR) ☒Structure and Infrastructure Project (SIP)	☒ Natural Systems Protection (NSP) ☐ Education and Awareness Programs (EAP)
Priority	Medium	

DRAFT

APPENDIX E

CRESCENT CITY MUNICIPAL CODE SECTION 13.17

DRAFT

CHAPTER 13.17
WATER CONSERVATION

§ 13.17.010. Purpose and authority.

This chapter is intended to equitably allocate the water available to Crescent City during a drought emergency to the end that sufficient water will be available for human consumption, sanitation, and fire protection. The specific uses regulated or prohibited in this chapter are nonessential, if allowed would constitute wastage of water, and should be prohibited pursuant to Water Code Section 350 et seq., Water Code Section 71640 et seq., and the common law.
(Ord. 702, 2004; Ord. 788 § 5.1, 8-3-2015)

§ 13.17.015. Promulgation of rules, regulations and rates.

The city council has adopted a water shortage contingency plan. The council reserves the right and power to amend or modify the water shortage contingency plan from time to time by resolution, and may likewise by resolution, establish and modify the penalties for violation of any provision of this chapter.
(Ord. 788 § 5.2, 8-3-2015)

§ 13.17.020. Declaration of water shortage emergency.

The provisions of this chapter take effect whenever the city manager, upon an engineering analysis of city water supplies, or due to state regulatory requirements, notices, or orders, finds and determines that a water shortage emergency exists or is imminent within the Crescent City water service area and a declaration of a water shortage emergency is made by a resolution of the city council. The regulations authorized under this chapter will remain in effect for the duration of the water shortage as set forth in the resolution. The city manager is authorized to go directly to any conservation stage necessary depending on the drought conditions or water shortage. The city manager is further authorized to act as quickly as needed to move through the conservation stages, depending on the drought conditions or water shortage.
(Ord. 702, 2004; Ord. 788 § 5.3, 8-3-2015)

§ 13.17.022. Definitions.

For the purpose of this chapter, the following definitions apply unless the context clearly indicates or requires a different meaning.

""City" means Crescent City, California.

"Council" means the elected council of the city.

"Customer" means any person using water supplied by the city.

"Nonessential use" means any use not required for human consumption, sanitation, or fire protection.

"Nonessential user" means any user other than a domestic residential customer or facility providing for health and safety.

DRAFT

Downloaded from https://ecode360.com/CR4919 on 2026-05-27

"Outdoor surface" means any patio, porch, veranda, driveway, or sidewalk.

"Person" means any person, firm, partnership, association, corporation, company, or organization of any kind.

"Water" means potable water provided by the city through its distribution system.
(Ord. 788 § 5.4, 8-3-2015)

§ 13.17.024. Application.

The provisions of this chapter apply to all city water customers both inside and outside the city limits.
(Ord. 788 § 5.5, 8-3-2015)

§ 13.17.026. Determination of stage of action necessary.

Upon the declaration of a water shortage emergency by the city council, the city manager shall determine the appropriate conservation stage of the city's water shortage contingency plan to be implemented. The city manager's decision must be based upon reliable information, such an engineering analysis of city water supplies, or upon state regulatory requirements, notices, or orders. The regulations set forth in the city's water shortage contingency plan will remain in effect for the duration of the water shortage as set forth in the resolution. The city manager may go directly to any conservation stage, and change the conservation stage when necessary, as indicated by the drought conditions or water shortage.
(Ord. 788 § 5.6, 8-3-2015)

§ 13.17.028. Water waste prohibited.

No water furnished by the city may be wasted. Waste of water includes, but is not limited to, the following:

a. Permitting water to escape (run to waste) down a gutter, ditch, surface drain, or otherwise;

b. Failure to repair a controllable leak of water; and

c. Failure to put to reasonable beneficial use any water withdrawn from the city's system.

(Ord. 788 § 5.7, 8-3-2015)

§ 13.17.030. Prohibitions of nonessential water uses.

No water furnished by the city may be used for any purpose declared to be nonessential as determined by the city council in accordance with the water shortage contingency plan for the Crescent City Service Area, as amended from time to time.
(Ord. 702, 2004; Ord. 788 § 5.8, 8-3-2015)

DRAFT

Downloaded from https://ecode360.com/CR4919 on 2026-05-27

§ 13.17.035. Limits on individual consumption.

The city manager may limit the amount of water delivered to customers, whenever the city manager determines the water available to Crescent City is insufficient to meet the demands of customers of the city and that all water available to said city should be used solely for human consumption, sanitation and fire protection. The city manager may order limits be imposed on individual consumption as determined and specified by resolution of the city council including penalties. While this chapter is in effect, no additional water use by a customer shall be permitted unless the city manager determines that the health, safety, or welfare of the public might be endangered.
(Ord. 788 § 5.9, 8-3-2015)

§ 13.17.040. Enforcement.

Any customer violating the water conservation and rationing provisions regulations set forth in this chapter, shall receive a written warning for the first violation. Upon a second violation, the customer shall receive a second written warning and the city may, at its discretion, install a flow-restricting device on the customer's water service. All costs to install and remove the flow-restricting device shall be paid by the violating customer. Any willful violation after issuance of the second written warning shall constitute a misdemeanor and the city may, at its discretion, disconnect the water service.
(Ord. 702, 2004)

§ 13.17.050. Water service surcharge.

In addition to those provisions set forth in Section 13.17.040, any violator receiving a second written notice will be assessed a water service use surcharge for any "excessive use of water" which is defined as water use that exceeds the average water use for the account for the prior twenty-four months. The surcharge for the "excessive use of water" shall be double the account billing rate.
(Ord. 702, 2004)

§ 13.17.060. Termination of service.

For violations resulting in third written notices and continued excessive use of water, the city may, at its discretion, disconnect water service and not reinstate service until a specific water conservation plan has been developed with the violating customer.
(Ord. 702, 2004)

§ 13.17.070. Appeals.

Any decision or declaration made by the director of public works under this section may be appealed to the city manager. Any decision made by the city manager under this section may be appealed to the city council. Any appeal shall be made in writing, setting forth the nature of the disagreement with the decision or declaration made, the reasons to support the disagreement, and the relief sought. Any determination by the city council shall be final.
(Ord. 702, 2004)

DRAFT

Downloaded from https://ecode360.com/CR4919 on 2026-05-27

§ 13.17.080. Cumulative remedies.

The remedies available to the city to enforce this chapter are in addition to any other remedies available under the city's municipal code or any state statutes or regulations and do not replace or supplant any other remedy but are cumulative.
(Ord. 702, 2004)

DRAFT

Downloaded from https://ecode360.com/CR4919 on 2026-05-27

APPENDIX F

NOTICE OF PUBLIC HEARING FROM THE LOCAL NEWSPAPER

DRAFT

APPENDIX G

CRESCENT CITY RESOLUTION 2026-__

DRAFT

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **BRIDGET LACEY, GRANTS AND ECONOMIC DEVELOPMENT MANAGER**

DATE: **JUNE 15, 2026**

SUBJECT: **2025-2030 DEL NORTE COUNTY COMPREHENSIVE ECONOMIC DEVELOPMENT STRATEGY (CEDS)**

RECOMMENDATION

- *Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- Approve and Authorize the City Manager to sign an Agreement with TPMA, LLC to update the Del Norte County CEDS for the years 2025-2030
- Mayor to appoint and Council to confirm the appointment of two Council Members to a CEDS ad hoc / steering committee

BACKGROUND

For federal fiscal year (FY) 2023, the US Economic Development Administration (EDA) was appropriated $39.5 million for the Economic Adjustment Assistance (EAA) grant program and released a Notice of Funding Opportunity (NOFO) for these funds on March 15, 2023. Subject to the availability of funds, awards made under this NOFO will assist communities and regions in devising and implementing long-term economic development efforts through a variety of non-construction and construction projects. Under this program, EDA assists eligible recipients in creating regional and local economic development plans designed to build capacity and guide the economic prosperity and resilience of an area or region. EAA investments are designed to help communities catalyze public-private partnerships to foster collaboration, attract investment, and create jobs.

The current countywide CEDS was adopted by the City, County, and Harbor in March of 2020 and covers years 2019-2024. This planning document expired at the end of 2024. In August of 2024 City staff submitted an application for EDA funding in the amount of

$76,000 with an in-kind match of $34,350 to update the existing CEDS. On September 17, 2025, the City received notice that a full award of $76,000 had been issued. On October 6, 2026, Council accepted the award and directed staff to execute a grant agreement with EDA. The countywide CEDS provides a guide for accomplishing the City's economic development goals and will be a requirement for other funding opportunities.

Upon award of EDA funding, City staff have worked with County and Harbor staff to draft the RFP to select a consultant to perform the work. The selected consultant and planning partners will collect and analyze economic development data including, but not limited to, community demographics, infrastructure, economic trends and linkages. The consultant is expected to engage economic development partners and business owners to convene a steering committee. With assistance from the consultant, staff will schedule, plan, and convene community workshops to plan goals, strategies, and milestones to measure success. The workshops will collect input from all stakeholders regarding economic development issues, concerns, and desirable actions to guide identification and prioritization of the goals and strategies.

Data obtained from research, community meetings, business surveys, and the steering committee will be compiled and used to develop a draft updated CEDS. The draft goals and strategy will include: a description of each strategy; identification of each entity responsible for strategy implementation; quantification of costs, and feasibility, if adequate information is available; estimated effects of strategy implementation; and a list of possible next steps, including timelines for implementation of each str ategy.

The draft CEDS will then be presented to stakeholders and Partner Agencies' representatives. Recommended changes per community and representative input will be incorporated into the final CEDS. When completed, the final CEDS will be presented to the Partner Agencies for acceptance.

The CEDS is intended to be a "living document" that is periodically reviewed and updated to reflect the economic development progress and changes in the region. The CEDS will be reviewed annually by the Partner Agencies to assess progress and amend the plan as necessary.

ITEM ANALYSIS

The RFP for an update to the Del Norte County Comprehensive Economic Development Strategy (CEDS) was released on May 14, 2026, and a total of two proposals were received by the closing date of June 5, 2026. The proposals received for the CEDS update were both deemed qualified, with experience working in rural communities, and capable of performing the work, but one stood out as having more direct experience meeting the EDA requirements of the CEDS. Because of this, TPMA, LLC was selected by the hiring panel, which consisted of (2) City representatives, (1)

County representative, (1) Harbor representative, and (1) UC Cooperative Extension representative.
TPMA, LLC is a firm located in Indianapolis, Indiana, with experience developing plans for over 50 cities across the country. They recently completed a CEDS update for the County of Humboldt and have already seen meaningful progress aligned with their CEDS update since adoption. The total cost for the proposed planning document is $59,900, which is within budget, and the proposed timeline will allow for the work to be completed before the grant deadline. The proposed timeline is as follows:

Task 1: Project Initiation and Work Plan Development……..…..**June-July 2026**
Task 2: Data Collection, Economic Analysis, and Conditions Assessment……..…...**July-Sept 2026**
Task 3: Stakeholder and Community Engagement……...…..……..…**Aug-Oct 2026**
Task 4: Strategy Development, Action Framework & CEDS Assessment and Lessons Learned……..…**Nov-Dec 2026**
Task 5: Drafting, Review, Finalization, and Implementation Framework...**Nov-Jan 2027**

FISCAL ANALYSIS

The EDA grant covers $60,000 for a consultant contract and $16,000 for data gathering software. The grant requires a 30% match, or $34,350, which can be in the form of in-kind services, over the next nine months, split among the participating agencies. The City has agreed to contribute $15,000 in staff time; the County has agreed to contribute $12,083.20 in staff time and $1,050 in facility rental fees; and the Crescent City Harbor District has agreed to contribute $6,217 in staff time. EDA grant funding operates on a reimbursement basis, so the City will need to expend the funds first and then request reimbursement for the grant funds.

STRATEGIC PLAN ASSESSMENT

This action supports the following Strategic Plan goals:

- Goal 1: Support quality services, community safety, and health to enhance the quality of life and experience of our residents and visitors
- Goal 1(A): Enhance collaboration with other agencies and the community to better aid the public
- Goal 1(E): Target economic development improvements that provide additional benefit by enhancing the quality of life for residents
- Goal 2(D): Collaborate with other jurisdictions and nonprofits to maximize regional effectiveness and amplify funding opportunities
- Goal 2(E): Create an environment that is conducive to attracting and retaining strong, sustainable businesses that reflect community needs and culture
- Goal 2(F)(9): Expand on the success of grant funding by maximizing utilization of opportunities with corresponding community needs

ATTACHMENTS

1. Professional Services Agreement – TPMA, LLC

CITY OF CRESCENT CITY
PROFESSIONAL SERVICES AGREEMENT

This professional services agreement ("Agreement") is made and entered into by the City of Crescent City, a California municipal corporation ("CITY") and TPMA, LLC ("CONSULTANT"), for the purpose of utilizing Economic Development Administration (EDA) funds awarded to the CITY for the provision of updating the 2019-2024 Del Norte County Comprehensive Economic Development Strategy (CEDS).

RECITALS

WHEREAS, CITY has been awarded Economic Development Administration (EDA) funding for an update to the 2019-2024 Del Norte County Comprehensive Economic Development Strategy; and

WHEREAS, CITY has determined that it is necessary and desirable to secure certain technical and professional services; and

WHEREAS, the scope of work for said services (hereinafter "Project") is outlined in the Project Scope of Work, attached hereto as Exhibit "A" and hereby incorporated by reference; and

WHEREAS, CONSULTANT is qualified and willing to provide such services pursuant to the terms and conditions of this Agreement.

AGREEMENT

NOW, THEREFORE, IT IS AGREED by and between CITY and CONSULTANT as follows:

1. INCORPORATION OF RECITALS. The recitals set forth above, and all defined terms set forth in such recitals and in the introductory paragraph preceding the recitals, are hereby incorporated into this Agreement as if set forth herein in full.

2. SCOPE OF SERVICE.

   (a) Services to be Furnished. Subject to policy direction and approvals as CITY through its staff may determine from time to time, CONSULTANT shall perform the services set forth in Exhibit "A" attached hereto and incorporated herein by reference. It is acknowledged by both parties that the services to be performed must be provided in accordance with EDA Guidelines and that if any terms of this Agreement conflict with those guidelines, then an amendment will be necessary.

   (b) Schedule for Performance. CONSULTANT must perform the services identified in Exhibit "A" as expeditiously as is consistent with generally accepted standards of

the professional skill, and with the appropriate care and the orderly progress of work per the requirements of the EDA. All work must be performed prior to the grant expenditure deadline and should follow the general guidelines of the established Project Schedule & Staffing, attached hereto as Exhibit "B".

(c) Standard of Quality. All work performed by CONSULTANT under this Agreement must be in accordance with all applicable legal requirements. All work must also meet the standard of quality ordinarily to be expected of competent professionals in CONSULTANT'S field of expertise.

(d) Compliance With Laws. CONSULTANT must comply with all applicable federal, state, and local laws, codes, ordinances, regulations, orders, and decrees, including without limitation, those laws or requirement regarding authority to conduct business, permit, licenses, tax, employment, reporting, data protection, lobbying, and contacts with government officials (including the provision of gifts) as well as the Telephone Consumer Protection Act of 1991, as amended. CONSULTANT represents and warrants to CITY that CONSULTANT will, at its own cost and expense, always obtain and keep in effect during the term of this Agreement any licenses, permits, insurance and approvals which are legally required for CONSULTANT to practice its profession or are necessary and incident to the lawful prosecution of the services it performs under this Agreement.

(e) Notice to Proceed. CONSULTANT is not authorized to commence work under this Agreement until CITY has signed a standard agreement with the State and issued CONSULTANT a notice to proceed.

3. COMPENSATION.

(a) Schedule of Payment. The compensation and terms of payment to be paid by CITY to CONSULTANT for the services rendered hereunder will be in accordance with Exhibit "C", attached hereto and incorporated herein by this reference. It is expressly agreed and understood that the total to be paid by CITY under this Agreement for professional services is not to exceed Fifty-Nine Thousand, Nine-Hundred dollars ($59,900).

(b) Additional Services. CITY will make no payment to CONSULTANT for any extra, further, or additional services unless such services and payment have been mutually agreed to and this Agreement has been formally amended in accordance with Section 7.

(c) Invoicing and Payment. CONSULTANT must submit final invoice identifying the service provided and time allocated to each task performed by January 31, 2027. The parties agree to exercise good faith and diligence in the resolution of any

disputed invoice amounts. CITY will make payment within 30 days of receipt of invoice for all undisputed amounts.

(d) Payment at Termination. CITY must submit final payment for all work performed to the date of termination to CONSULTANT within 30 days of the final date of service.

4. ACTIVITY REVIEW AND COMMENT. CONSULTANT must provide CITY with copies of each participant's progress for activities described in Exhibit "A". Upon completion of each activity/task as defined in Exhibit "A", CONSULTANT must be available to meet with CITY. If additional review and/or revision is required by CITY, CITY will conduct reviews in a timely manner.

5. TERM OF AGREEMENT. This Agreement is effective as of the date of execution by both parties and will remain in effect until the grant performance period has ended or the completion of services, whichever is sooner, unless earlier terminated pursuant to Section

6. TERMINATION.

(a) CITY has the right to terminate this Agreement for any reason, at any time, by serving upon CONSULTANT ten (10) calendar days' advance written notice of termination. The notice will be deemed served and effective for all purposes on the date it is deposited in the U.S. mail, certified, return receipt requested, addressed to CONSULTANT at the address indicated in Section 11.

(b) If CITY issues a notice of termination, CONSULTANT must deliver to CITY copies of all writings, whether or not completed, which were prepared by CONSULTANT, its employees, or its subcontractors, if any, pursuant to this Agreement. The term "writings" includes, but is not limited to, handwriting, typewriting, computer files and records, drawings, blueprints, printing, photostatting, photographs, and every other means of recording upon any tangible thing, any form of communication or representation, including letters, words, pictures, sounds, symbols, or combinations thereof.

(c) Upon early termination of this Agreement, CONSULTANT will be entitled to payment for services rendered up to and including the day of termination.

7. AMENDMENTS. Modifications or amendments to the terms of this Agreement must be in writing and executed by both parties to be valid and enforceable. State approval is required for any Amendments.

8. NONDISCLOSURE OF CONFIDENTIAL INFORMATION. CONSULTANT must not, either during or after the term of this Agreement, disclose to any third party any confidential information relative to the work of CITY without the prior written consent of CITY.

9. DISCLOSURE. CONSULTANT must provide CITY with full disclosure of any other clients that it is currently serving in Del Norte County, including a brief description of the nature of the work being performed. If CONSULTANT initiates service to new clients within Del Norte County during the term of this Agreement, CONSULTANT must disclose such service to CITY. CONSULTANT may be excused from this disclosure requirement if the client demands confidentiality, and the work does not present a conflict of interest for CONSULTANT.

10. INDEPENDENT CONTRACTOR. In the performance of the services in this Agreement, CONSULTANT is an independent contractor and is not an agent or employee of CITY. CONSULTANT, its officers, employees, agents, and subcontractors, if any, have no power to bind or commit CITY to any decision or course of action, and must not represent to any person or business that they have such power. CONSULTANT has the right to exercise full control of the supervision of the services and over the employment, direction, compensation, and discharge of all persons assisting CONSULTANT in the performance of said service hereunder. CONSULTANT is solely responsible for all matters relating to the payment of its employees, including compliance with social security and income tax withholding, workers' compensation insurance, and all other regulations governing such matters.

11. NOTICE. Any notices or other communications to be given to either party under this Agreement must be in writing, delivered to the addresses set forth below, and will be effective, as follows:

(a) By personal delivery: Effective upon receipt by the addressee; or

(b) By facsimile: Effective upon receipt by the addressee, so long as a copy is provided by certified U.S. mail, return receipt requested, postmarked the same day as the facsimile; or

(c) By certified U.S. mail, return receipt requested: Effective 72 hours after deposit in the mail (except as otherwise provided in Section 6(a)).

CITY: CITY OF CRESCENT CITY
Attn: City Manager
377 J Street
Crescent City, California 95531
Phone: (707) 464-7483
Fax: (707) 465-1719
Email: ewier@crescentcity.org

CONSULTANT: TPMA, LLC
Attn: Mark Gramelspacher, CEO
PO Box 881011

Indianapolis, IN 46208
Phone: (317) 894-5508

Either party may change its address for notice purposes by complying with the notice procedures in this Section.

12. OWNERSHIP OF DOCUMENTS AND MATERIALS.

(a) Copyrights associated with any original works developed in support of the activities described in Exhibit A pursuant to this Agreement, shall belong to the original artist ("Artist") upon creation and shall continue tin Artist's ownership upon termination of this Agreement.
(b) Any copyrighted materials and/or trademarks developed and created by CONSULTANT in the performance of this Agreement, including without limitation, all drawings, designs, reports, specifications, and notes, shall be deemed to be "works for hire" under the United States Copyright Act (17 USC § 101 et seq.) and shall, unless otherwise agreed to in writing, belong to CITY upon creation, and continue in the CITY'S exclusive ownership upon termination of this Agreement. Unless otherwise agreed to in writing, CONSULTANT agrees to assign to CITY all rights, title, and interest in and all works created pursuant to this Agreement as well as all related intellectual property rights.
(c) CITY is the owner of all non-copyrighted or trademarked materials, records and information created, produced, or generated as part of the services performed under this Agreement. At any time during the term of this Agreement, at the request of CITY, CONSULTANT must deliver to CITY copies of all writings, records, and information created or maintained pursuant to this Agreement. The term "writings" in this Section has the same definition as provided in Section 6(b). Any forms, software, and/or services provided and created by the CONSULTANT will remain the property of the CONSULTANT. All documents or work created using these systems will remain the property of CITY.

13. DUTIES OF THE CITY. The CITY must provide the CONSULTANT with all program files, records, and information pertinent to services to be performed hereunder. The CITY is responsible for monitoring CONSULTANT for conformity with grant requirements and must promptly notify CONSULTANT of any fault or defect in the performance of CONSULTANT'S services hereunder.

14. BINDING AGREEMENT. This Agreement binds the successors of CITY and CONSULTANT in the same manner as if they were expressly named herein.

15. NO IMPLIED WAIVER. Waiver by either party of any default, breach, or condition precedent may not be construed as a waiver of any other default, breach, or condition precedent or any other right under this Agreement. The failure of either party at any time to

require performance by the other party of any provision hereof will not affect in any way the right to require such performance at a later time.

16. NONDISCRIMINATION.

(a) In General. During the performance of this Agreement, CONSULTANT and its subcontracts shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (e.g. cancer), age (over 40), marital status, and denial of family care leave. CONSULTANT and subcontractors shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. CONSULTANT and subcontractors shall comply with the provisions of the Fair Employment Housing Act (Gove Code §12990 (a)-(f) et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990(a)-(f), set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Agreement by reference and made a part hereof as if set forth in full. CONSULTANT and its subcontractors must give written notice of their obligations under this clause to labor organization with which they have a collective bargaining or other agreement.

(b) Compliance With Laws. CONSULTANT must comply with all federal and state anti-discrimination and civil rights laws, including: Title VI of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d et seq.) and DOC implementing regulations published at 15 CFR Part 8 prohibiting discrimination on the grounds of race, color, or national origin under programs or activities receiving Federal financial assistance; Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), and DOC implementing regulations published at 15 CFR Part 8b prohibiting discrimination on the basis of handicap under any program or activity receiving or benefiting from Federal assistance; the Age Discrimination Act of 1975, as amended (42 U.S.C. §§ 6101 et seq.), and DOC implementing regulations published at 15 CFR Part 20 prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance.

(c) Posting Requirements. CONSULTANT agrees to post in conspicuous places, available to all employees and applicants for employment, notices that CONSULTANT will provide an atmosphere for employees, clients, and volunteers that is free from harassment or discrimination on the bases set forth in subsection 16(a).

17. INSURANCE.

(a) Required Coverage. CONSULTANT, at its sole cost and expense, must obtain and maintain in full force and effect throughout the entire term of this Agreement the following described insurance coverage:

	Policy Type	Minimum Limits of Coverage
(i)	Workers' Compensation	Per California Law
(ii)	Employer's Liability	$1,000,000 per accident for BI/Disease
(iii)	Comprehensive Automobile ISO Form # CA 0001	$1,000,000 per accident for BI/PD CSL, Code I – All autos
(iv)	Commercial/Comprehensive General Liability ISO Form # CG 001 01	$1,000,000 per occurrence for BI/PD, including premises operations, products / completed operations, independent contractors, personal and advertising injury and liability; $1,000,000 each occurrence/$2,000,000 gen. aggregate and $2,000,000 products/completed operations aggregate

(b) Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by CITY.

(c) Required Provisions. The general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

(i) For any claims related to this Project, the CONSULTANT'S insurance coverage will be primary insurance as respects CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by CITY, its officers, officials, employees, or volunteers will be in excess of the CONSULTANT'S insurance and will not contribute to it; and

(ii) CITY, its officers, officials, employees and volunteers are to be covered as additional insureds.

(iii) For purposes of this subsection 17(c), "CITY" shall also include EDA, its officers, agents, employees and servants.

(d) Claims-Made Policies. If any required policy is a claims-made policy, the policy must contain language providing coverage up to six months following the completion of the Project in order to provide insurance coverage for the hold harmless provisions herein.

(e) Verification of Coverage. CONSULTANT must provide copies of all required insurance declarations, at the CITYS discretion, either upon request or prior to commencement of work.

(f) Notice of Cancellation. Each insurance policy required by this Section must be endorsed to state that coverage may not be suspended, voided, cancelled by either party, reduced in coverage or in limits except after giving CITY 30 days' prior written notice (10 days for non-payment of premium) by certified mail, return receipt requested.

(g) Lack of Coverage. In the event any required policy is canceled prior to the completion of the Project and CONSULTANT does not furnish a new Certificate of Insurance prior to cancellation, CITY may obtain the required insurance and deduct the premium(s) from contract monies due to CONSULTANT.

(h) Other Coverages. CONSULTANT must maintain, if legally required, unemployment and disability insurance reasonable to compensate for injuries or damages related to the activities of this Agreement.

18. WORKERS' COMPENSATION.

(a) Covenant to Provide. CONSULTANT warrants that it is aware of the provisions of the California Labor Code that requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code. CONSULTANT further agrees that it will comply with such provisions before commencing the performance of the work under this Agreement.

(b) Waiver of Subrogation. CONSULTANT agrees to waive all rights of subrogation against CITY, its elected or appointed officials, agents, and employees for losses paid under CONSULTANT'S workers' compensation insurance policy which arise from the work performed by CONSULTANT for CITY.

19. DRUG-FREE WORKPLACE & HUMAN TRAFFICKING.

(a) Drug-Free Workplace. CONSULTANT must comply with the provisions of the Drug-Free Workplace Act of 1988 (41 U.S.C. § 8102) and DOC implementing regulations published at 2 CFR Part 1329 (Requirements for Drug-Free Workplace (Financial

Assistance)), which require that the recipient and subrecipient take certain actions to provide a drug-free workplace.

(b) Human Trafficking. CONSULTANT must not engage in:
  (i) Severe forms of trafficking in persons;
  (ii) The procurement of a commercial sex act during the period of time that this award or any subaward is in effect;
  (iii) The use of forced labor in the performance of this award or any subaward; or
  (iv) Acts that directly support or advance trafficking in persons, including the following acts:
    (A) Destroying, concealing, removing, confiscating, or otherwise denying an employee access to that employee's identity or immigration documents;
    (B) Failing to provide return transportation or pay for return transportation costs to an employee from a country outside the United States to the country from which the employee was recruited upon the end of employment if requested by the employee, unless:
      (1) Exempted from the requirement to provide or pay for such return transportation by the Federal department or agency providing or entering into the grant or cooperative agreement; or
      (2) The employee is a victim of human trafficking seeking victim services or legal redress in the country of employment or a witness in a human trafficking enforcement action;
    (C) Soliciting a person for the purpose of employment, or offering employment, by means of materially false or fraudulent pretenses, representations, or promises regarding that employment:
    (D) Charging recruited employees as a placement or recruitment fee; or
    (E) Providing or arranging housing that fails to meet the host country's housing and safety standards.

20. LOBBYING REGULATIONS.

(a) Lobbying Restrictions. CONSULTANT must comply with 2 CFR § 200.450 (Lobbying), which incorporates the provisions of 31 U.S.C. § 1352; and OMB guidance and notices on lobbying restrictions. In addition, recipients and subrecipients must comply with DOC regulations published at 15 CFR Part 28, which implement the New Restrictions on Lobbying. These provisions prohibit the use of Federal funds for lobbying the executive or legislative branches of the Federal Government in connection with the award and require the disclosure of the use of non-Federal funds for lobbying. Lobbying includes attempting to improperly influence, meaning any influence that induces or tends to induce a Federal

employee or officer to give consideration or to act regarding a Federal award or regulatory matter on any basis other than the merits of the matter, either directly or indirectly. Costs incurred to improperly influence are unallowable. See 2 CFR § 200.450(b) and (c). CONSULTANT must sign and certify the Anti-Lobbying Certification included as Exhibit C to this Agreement and return it to CITY with the executed copy of this Agreement.

(b) Disclosure of Lobbying Activities. Any CONSULTANT that receives more than $100,000 in Federal funding and conducts lobbying with non-federal funds relating to a covered Federal action must submit a completed Form SF-LLL (Disclosure of Lobbying Activities). The Form SF-LLL must be submitted within 30 calendar days following the end of the calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed. The recipient must submit any required SF-LLL forms, including those received from subrecipients, contractors, and subcontractors, to the Grants Officer.

21. RUSSIAN SANCTIONS. On March 4, 2022, Governor Gavin Newsom issued Executive Order N-6-22 (EO) regarding sanctions in respo0nse to Russian aggression in Ukraine. The EO is located at https://www.gov.ca.gov/wp-content/uploads/2022/03/3.4.22-Russia-Ukraine-Order.pdf. The EO directs all agencies and department that are subject top the Governor's authority to take certain immediate steps, including notifying all contractors and grantee of hir obligations to comply with existing economic sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as any sanctions imposed under State law. CONSULTANT must comply with the economic sanctions imposed in response to Russia's actions in Ukraine, including with respect to, but not limited to, the federal executive orders identified in the EO and the sanctions identified on the U.S. Department of the Treasure website: https://home.treasury.gov/policy-issues/financial-sanctions/sanctions-programs-and-country-information/ukraine-russia-related-sanctions).

22. INDEMNIFICATION PROVISIONS.

(a) CONSULTANT agrees to indemnify, defend, and save harmless the EDA, its officers, agents, and employees from any and all claims and losses, whatsoever, accruing or resulting to any and all contractors, subcontractors, suppliers, laborers, and any other person, firm or corporation furnishing or supplying work, services, materials or supplies in connection with the performance of this Agreement, and from any and all claims and losses accruing or resulting to any person, firm or corporation who may be injured or damaged by CONSULTANT in performance of this Agreement.

(b) CONSULTANT agrees to indemnify, defend and save harmless CITY, its City Council, its officials, agents, and employees from any and all claims and losses, whatsoever, accruing or resulting from any and all contractors, subcontractors, suppliers, laborers, and any other

person, firm or corporation furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims and losses accruing or resulting to any person, firm or corporation who may be injured or damaged by CONSULTANT in the performance of this Agreement.

23. WAIVER OF CLAIMS. CONSULTANT waives all claims and recourse against the Mellon Foundation and the Department, its officer, employees and/or agents, including the right to contribution, for any and all loss, injury, death or damage to persons or property, caused by, arising out of, or in anyway connected with or incident to this Agreement, or the rights or obligations herein granted or imposed, except Those arising out of the sole active negligence or willful misconduct of the Department.

24. CONFLICTS OF INTEREST. CONSULTANT shall exercise reasonable care and diligence to prevent any actions or conditions which could result in a conflict with CITY'S interest. CONSULTANT must immediately notify CITY of any and all violations of this Section upon becoming aware of such violation. A conflict of interest generally exists when an interested party participates in a matter that has a direct and predictable effect on the interested party's personal or financial interests. A conflict also may exist where there is an appearance that an interested party's objectivity in performing his or her responsibilities under the project is impaired. For example, an appearance of impairment of objectivity may result from an organizational conflict where, because of other activities or relationships with other persons or entities, an interested party is unable to render impartial assistance, services or advice to the CITY, a participant in the project or to the Federal government. Additionally, a conflict of interest may result from non-financial gain to an interested party, such as benefit to reputation or prestige in a professional field.

25. TIME OF THE ESSENCE. CONSULTANT understands and agrees that time is of the essence in the completion of the work and services described in Exhibit A.

26. SEVERABILITY. If any court of competent jurisdiction or subsequent preemptive legislation holds or renders any of the provisions of this Agreement unenforceable or invalid, the validity and enforceability of the remaining provisions, or portions thereof, will not be affected.

27. GOVERNING LAW AND CHOICE OF FORUM. This Agreement will be administered and interpreted under California law as though written by both parties. Any litigation arising from this Agreement must be brought in the Superior Court of Del Norte County.

28. COSTS AND ATTORNEYS' FEES. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action may recover its reasonable litigation expenses, including court costs, expert witness fees, discovery expenses, and attorneys' fees.

29. NO ASSIGNMENT. This Agreement any amendments hereto are not assignable by CONSULANT either voluntarily or by operation of law without the written approval of CITY.

30. AUTHORIZATION TO EXECUTE. The signatories to this Agreement hereby represent and warrant that they have been duly authorized to legally bind and execute this Agreement on behalf of their respective parties.

31. COUNTERPARTS. This Agreement with the Exhibits attached may be executed in counterparts, each of which is to be deemed an original but all of which together constitute one in the same instrument. Counterparts may be delivered via facsimile, electronic mail, including pdf or any electronic signature complying with California's Uniform Electronic Transactions Act, Cal. Civ. Code Section 1633.1 et seq. In any action or proceeding, an exact and correct copy may be used in lieu of an original.

[SIGNATURE PAGE TO FOLLOW]

SIGNATURE PAGE

Executed by CITY and CONSULTANT on this _____ day of _____, 2024.

CITY OF CRESCENT CITY:

_____
Eric Wier, City Manager

APPROVED AS TO FORM:

_____
Martha D. Rice, City Attorney

TPMA, LLC:

By: _____
Mark Gramelspacher, CEO

PROJECT SCOPE OF WORK



Proposed Approach

This section outlines our recommended approach to the project, including the overall scope, key milestones and timeline, and a clear overview of costs. It demonstrates how we plan to achieve your goals efficiently and effectively while keeping expectations transparent and manageable.

Comprehensive Economic Development Strategy

Task 1: Project Initiation and Work Plan Development

Why this matters

A clear project structure is essential to keep a multi-partner effort on track, especially in regions with limited staff capacity. Early alignment ensures the process is efficient, transparent, and produces an EDA-compliant, implementable CEDS.

What we will do

- Conduct a project kickoff meeting with Partner Agencies to confirm goals, roles, and expectations
- Develop a detailed work plan aligned with the February 2027 deadline and key milestones
- Establish communication protocols, decision-making structure, and reporting cadence
- Create project management systems for document sharing, meeting tracking, and progress updates
- Coordinate closely with staff to streamline data requests and reduce administrative burden

What you get

- A clear, approved roadmap for the full CEDS process
- Defined roles, timelines, and communication structure
- Efficient project coordination that minimizes staff workload
- A strong foundation for on-time delivery and smooth implementation

Strategic questions we will answer

- How will decisions be made, documented, and communicated?
- How do we ensure the process stays on schedule and within scope?
- How do we reduce demands on limited local capacity while maintaining quality?

Comprehensive Economic Development Strategy

Task 2: Data Collection, Economic Analysis, and Conditions Assessment

Why this matters

A strong CEDS must be grounded in accurate, localized data that reflects both regional trends and on-the-ground realities. Rural economies require nuanced analysis that captures industry interdependencies, workforce dynamics, and infrastructure constraints.

What we will do

- Compile and analyze demographic, economic, workforce, and industry data
- Assess key sectors (e.g., tourism, commercial fishing, harbor-related commerce, marine industries, natural resources, public employment, renewable energy, offshore wind-related opportunities, and other emerging industries)
- Evaluate opportunities and constraints associated with transportation connectivity, harbor infrastructure, blue economy assets, and emerging offshore wind supply chain activity affecting the North Coast region.
- Analyze infrastructure conditions
- Conduct a SWOT analysis identifying strengths, weaknesses, opportunities, and threats
- Integrate regional context, including state and federal initiatives impacting the North Coast

What you get

- A comprehensive Area Overview aligned with EDA requirements
- Data-driven insights tailored to Del Norte County's economy
- Clear identification of economic challenges and opportunities
- A shared understanding of baseline conditions to inform strategy

Strategic questions we will answer

- What industries are driving the local and regional economy today, and what is emerging?
- Where are the most critical workforce and infrastructure gaps?
- What factors are limiting or enabling economic growth in Del Norte County?

Comprehensive Economic Development Strategy

Task 3: Stakeholder and Community Engagement

Why this matters

In rural regions, meaningful engagement is critical to building a strategy that reflects local priorities and gains broad buy-in. Given geographic dispersion and limited population density, engagement must be intentional, flexible, and designed to reach residents, businesses, and partners who are not always easily accessible.

What we will do

- Develop a targeted engagement plan tailored to Del Norte County's geography and stakeholders
- Conduct a minimum of three in-person or hybrid public meetings in accessible locations
- Facilitate small-group stakeholder roundtables with key sectors (e.g., employers, workforce providers, Tribal partners, educators, harbor and tourism stakeholders)
- Conduct one-on-one interviews with regional leaders and historically underrepresented voices
- Deploy an online survey to expand reach across rural and remote populations
- Coordinate meeting logistics, materials, facilitation, and documentation (agendas, attendance, summaries)
- Utilize flexible formats (evening sessions, hybrid options, mobile outreach where needed) to maximize participation

What you get

- Broad, inclusive stakeholder input reflecting the full community
- Well-documented engagement process aligned with EDA expectations
- Increased local ownership and support for the final CEDS
- Clear understanding of community priorities and implementation barriers

Strategic questions we will answer

- What are the top economic priorities across different communities and sectors?
- What barriers prevent residents and businesses from participating in the local economy?
- Where is there alignment, and where are there competing priorities we must reconcile?

Comprehensive Economic Development Strategy

Task 4: Strategy Development, Action Framework & CEDS Assessment and Lessons Learned

Why this matters

The value of a CEDS lies in its ability to translate analysis and input into clear, actionable strategies. In rural communities, strategies must be realistic, prioritized, and aligned with available capacity and funding opportunities.

Equally important, this effort builds on prior work. Incorporating a structured CEDS Assessment and Lessons Learned component ensures that the strategy reflects what has worked, what has not, and how conditions have evolved since the previous CEDS. This strengthens alignment with EDA best practices and enhances the overall competitiveness of the final plan.

What we will do

- Define a regional vision, goals, and objectives based on data and stakeholder input
- Develop targeted strategies addressing workforce, infrastructure, housing, industry growth, harbor development, blue economy opportunities, resilience, and economic diversification linked to emerging energy markets
- Identify priority projects and initiatives with clear implementation pathways
- Assign roles, timelines, and potential funding sources for each strategy
- Incorporate resilience planning, including economic recovery and disaster preparedness
- Align strategies with EDA requirements and funding eligibility criteria

CEDS Assessment and Lessons Learned Component:

- Benchmark prior CEDS implementation outcomes and overall performance
- Review completed versus incomplete goals and initiatives
- Evaluate barriers to implementation (capacity, funding, policy, or coordination challenges)
- Identify emerging economic conditions and opportunities since the prior CEDS
- Translate findings into refined, forward-looking strategies and priorities

What you get

- A clear, prioritized Action Plan tied to measurable outcomes
- Implementation-ready strategies with defined ownership and timelines
- Strong alignment between community priorities and funding opportunities
- A framework that supports both immediate actions and long-term growth
- Documented assessment of prior CEDS performance to inform decision-making and strengthen future implementation

Strategic questions we will answer

- Which strategies will have the greatest impact on economic resilience and growth?
- What actions are realistically achievable given local capacity and resources?
- How can the region leverage the CEDS to compete for state and federal funding?

Comprehensive Economic Development Strategy

Task 5: Drafting, Review, Finalization, and Implementation Framework

Why this matters

A CEDS must function as a living, usable document, not just a report. Clear documentation, measurable outcomes, and an evaluation framework ensure the strategy can guide decisions and adapt over time.

What we will do

- Draft a complete, EDA-compliant CEDS document
- Present the draft to stakeholders and Partner Agencies for review
- Incorporate feedback and refine goals, strategies, and project priorities
- Develop performance metrics and an evaluation framework for ongoing monitoring
- Prepare final document, including narrative, data visuals, and implementation tools
- Present the final CEDS to Partner Agency boards for adoption

What you get

- A fully compliant, high-quality CEDS ready for EDA submission
- A clear evaluation plan with defined performance metrics
- A user-friendly, visually clear document that supports decision-making

A “living” strategy that can be updated and used beyond adoption

Strategic questions we will answer

- How will progress be measured and reported over time?
- How can the CEDS remain relevant as conditions change?
- How can the document be used to guide investment, partnerships, and grant applications?

Pro-Bono Implementation Support

TPMA provides six months of pro-bono implementation support to ensure that the strategies and recommendations outlined in our plans translate into meaningful, actionable steps. We believe that the value of a strategic plan lies not just in its design, but in its execution. Too often, well-developed plans are created and then set aside without proper follow-through. Our support period is designed to bridge that gap, working alongside your team to guide implementation, troubleshoot early challenges, and ensure that momentum is maintained from day one.

Throughout this period, TPMA remains actively engaged with you as a thought partner and resource. We offer regular check-ins, responsive communication, and hands-on assistance to help navigate emerging needs or unexpected obstacles. Whether it’s helping to refine performance metrics, adjust timelines, or coordinate among stakeholders, we are committed to being a consistent source of support. Our goal is to empower your team to build lasting capacity while keeping the plan’s goals front and center, ensuring long-term impact beyond the initial six-month period.

PROJECT SCHEDULE & STAFFING

The project schedule is designed to complete the final deliverables by January 31, 2027. If the City and Partner Agencies are granted additional time, we would extend the schedule to permit longer community discussion of the CEDs before final adoption.



PROJECT BUDGET

Performance of work Scope detailed in Exhibit A is for a **Not to Exceed Limit** of $59,900. Time and material expenses will be based on the following TPMA , LLC proposed budget.

Itemized Cost Proposal

We estimate a total cost of $59,900.00 to complete the project as outlined in this proposal.

This cost includes all staff time, resources, administration, site-specific stakeholder engagement, and materials.

Pricing is good for 90-days, unless otherwise specified. Renewable contracts will automatically include a 5% increase for each fiscal year, unless otherwise specified.

Description	
Task 1: Project Initiation and Work Plan Development	$5,700.00
Task 2 Data Collection, Economic Analysis, and Conditions Assessment	$12,300.00
Task 3 Stakeholder and Community Engagement	$15,800.00
Task 4 Strategy Development, Action Framework & CEDS Assessment and Lessons Learned	$13,900.00
Task 5 Drafting, Review, Finalization, and Implementation Framework	$12,200.00
TOTAL ESTIMATED COST	$59,900.00

BYRD ANTI-LOBBYING CERTIFICATION

31 USC § 1352

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The CONSULTANT listed below certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the CONSULTANT understands and agrees that the provisions of 31 U.S.C. Ch. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

PROJECT: 2024 CEDS Update / ED25SEA0G0153

CONSULTANT NAME: _____

PHYSICAL ADDRESS: _____

SIGNATURE OF CONSULTANT'S
AUTHORIZED OFFICIAL: _____

NAME AND TITLE OF
CONSULTANT'S AUTHORIZED OFFICIAL: _____

DATE: _____

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **MARTHA D. RICE, CITY ATTORNEY**

DATE: **JUNE 15, 2026**

SUBJECT: **UNCHARTED SHORES ACADEMY LEASE – 475 7TH STREET**

RECOMMENDATION

- Hear staff report
- Council questions
- Receive public comments
- Council discussion and deliberation
- Approve and authorize the City Manager to sign the Lease with Uncharted Shores Academy for 475 7th Street

BACKGROUND

The City owns Peterson Park, a 7.4-acre park in the middle of town that hosts a baseball field, tee ball field, tennis/pickleball courts, county-maintained skate park, community garden, and a two-classroom facility with adjoining playground. The classroom facility has been used as a preschool for decades. North Coast Children Services, which most recently operated a Head Start program at the facility, has vacated the premises. Uncharted Shores Academy, a public charter school, expressed interest in leasing the facility. Uncharted Shores currently leases space on E Washington Blvd. across from Sutter Coast Hospital. The property was recently purchased by Sutter Health, which plans to use the entire complex for its healthcare services – necessitating the relocation of Uncharted Shores Academy.

ITEM ANALYSIS

The City may lease real property for up to 15 years without having to declare it surplus and going through a specific competitive process. The City needs to set the rental rate at an estimated fair market rate or risk unlawfully gifting public funds to Uncharted Shores Academy. If the rental rate is less than fair market value, then the City must determine that the use of the facility serves a public purpose and therefore the discount in rental rate does not constitute a gift according to the case law interpreting Article XVI, Section 6 of the California Constitution.

The basic terms of the lease with Uncharted Shores Academy are as follows:

- LEASED PREMISES: The classroom facility located at 475 7th Street and adjoining playground.

- TERM: The Lease is for a 5-year initial term with two options to renew for a term of 5 years each. The lease will begin June 22, 2026.

- RENTAL RATE: The lease includes a rental rate of $3,200 per month ($38,400 per year, payable annually in advance), which is approximately $1 per square foot, the estimated fair market value. The rental rate is scheduled to increase 2% per year.

- UTILITIES & TAXES: The tenant, Uncharted Shores Academy, will be responsible for all utilities and applicable property taxes.

- MAINTENANCE & REPAIR: The City will be responsible for the maintenance and repair of the structural components of the building (including plumbing, HVAC, roof), as well as lawn maintenance. USA will be responsible for maintenance and repairs of non-structural components during the term of the lease.

- PLAYGROUND: The public will be allowed to use the playground during non-school, non-business hours. The City and USA will be equally share in the cost of maintenance and repair of the swing set and play structure, as well as the periodic replenishment of wood chips. The public will be able to utilize the playground after 4:30 PM on weekdays and on weekends.

- IMPROVEMENTS: The City will oversee making some improvements, which will be at USA's expense (reimbursed to the City for actual costs). These include two new exterior doors, five new interior doors and the construction of some interior walls to create a conference room.

FISCAL ANALYSIS

The revenue from the lease of the building will go into the General Fund. The City anticipates receiving $38,400 in rent for the first year, with rent escalating 2% per year thereafter.

STRATEGIC PLAN ANALYSIS

This item is consistent with the following strategic plan goals:

- Goal 1: Support Quality Services, Community Safety, and Health to Enhance the Quality of Life and Experience of Our Resident and Visitors
    - A. Enhance collaboration with other agencies and the community to better aid the public.

- D. Provide and maintain an efficient, adequate infrastructure to provide for both current and future community needs

ATTACHMENTS

1. Draft Lease with Uncharted Shores Academy

Lease Agreement
Between City of Crescent City
and
Uncharted Shores Academy Charter School
For 475 7th Street, Crescent City, CA

This Lease Agreement (this **"Lease"**) is made as of June 15, 2026 (the **"Effective Date"**), by and between the City of Crescent City, a California municipal corporation (**"CITY"**) and Uncharted Shores Academy, a California nonprofit public benefit corporation operating a charter school duly authorized under Education Code section 47600 et seq. (**"USA"**).

RECITALS

A. CITY is the owner in fee simple of certain real property located in the City of Crescent City, County of Del Norte, State of California, more particularly described in **Exhibit A** attached hereto and incorporated herein by this reference (the **"Property"**), together with any improvements thereon (collectively, the **"Premises"** as further defined below).

B. CITY desires to lease the Premises to USA for the operation of a public charter school and related educational uses, which CITY has determined will serve a valid public purpose and is consistent with CITY's powers under the California Constitution, the California Government Code, and applicable municipal ordinances.

C. USA is authorized to operate a charter school under a charter petition approved by Del Norte Unified School District (the **"Charter Authorizer"**) under the California Education Code (the **"Charter"**). USA desires to lease the Premises from CITY for operation of the Charter and related activities.

D. CITY desires to lease and USA desires to rent the Premises upon the terms and conditions set forth in this Lease.

AGREEMENT

NOW, THEREFORE, for valuable consideration, the receipt of which is hereby acknowledged, the parties agree to the following terms and conditions.

1.0 DEFINITIONS

In addition to terms defined elsewhere in this Lease, the following terms have the meanings set forth below:

1.01 "Agreement" or "Lease" means this Lease Agreement and all exhibits and addenda hereto, as amended from time to time in writing.

1.02 "Building" means the building or buildings located on the Property that are included in the Premises.

1.03 "Business Day" means any day other than a Saturday, Sunday, or official holiday of the State of California or the City of Crescent City.

1.04 "Commencement Date" has the meaning given in Section 3.02 below.

1.05 "Expiration Date" has the meaning given in Section 3.01 below.

1.06 "Hazardous Materials" has the meaning given in Section 15.01 below.

1.07 "Laws" means all present and future applicable statutes, laws, ordinances, codes, regulations, judicial decisions, orders, and requirements of any federal, state, county, municipal, or other governmental or quasi-governmental authority having jurisdiction over the Premises or either party, including without limitation the California Education Code applicable to charter schools, the California Government Code, the California Building, Fire, and Health and Safety Codes, and the Americans with Disabilities Act.

1.08 "Lease Year" means each consecutive twelve (12) full calendar month period during the Term beginning on the Commencement Date (or, if the Commencement Date is not the first day of a calendar month, the first day of the first full calendar month following the Commencement Date), and each anniversary thereof.

1.09 "Permitted Use" has the meaning given in Section 4.01 below.

1.10 "Rent" means collectively the Fixed Rent and any Additional Rent due under this Lease.

1.11 "Term" means the initial term of this Lease and any extension or renewal period exercised in accordance with this Lease.

1.12 "Work" means any tenant improvements, alterations, or additions performed by or on behalf of USA in or to the Premises.

2.0 PREMISES

2.01 Leased Premises. Subject to and upon the terms and conditions set forth in this Lease, CITY hereby leases to USA, and USA hereby leases from CITY, the following (collectively, the **"Premises"**):

(a) The real property described in Exhibit A, together with appurtenant rights and easements benefiting the Property; and

(b) The Building(s) and other improvements located on the Property as of the Effective Date, as more particularly depicted or described in Exhibit B attached hereto;

2.02 Exclusions and Reservations. The lease of the Premises is subject to:

(a) All easements, rights-of-way, covenants, conditions, restrictions, encumbrances, and other matters of record;

(b) Any rights of utility providers with respect to lines, pipes, conduits, and equipment servicing the Premises or adjacent properties;

(c) CITY's reservation of rights for the public to utilize the outdoor playground during non-school hours (school hours being 7:30 am - 4:30 pm Monday through Friday) while Peterson Park is open (currently 5:00 am – 11:00 pm); and

(d) CITY's reserved rights to install, replace, maintain, and use, and to permit others to install, replace, maintain, and use, utility lines, pipes, ducts, conduits, and related facilities in, on, over, under, and through the Premises, provided that such activities do not materially interfere with USA's rights of access to and use of the Premises for the Permitted Use, except temporarily during emergencies or necessary repairs with reasonable efforts to minimize disruption.

3.0 TERM

3.01 Initial Term. The initial term of this Lease (the **"Initial Term"**) shall commence on the Commencement Date (as defined below) and, unless sooner terminated as provided in this Lease, shall expire at 11:59 p.m. local time on June 21, 2031 (the **"Expiration Date"**).

3.02 Commencement Date. The **"Commencement Date"** shall be June 22, 2026. CITY shall deliver possession of the Premises to USA on the Commencement Date.

3.03 Holding Over. If USA remains in possession of the Premises after the Expiration Date or earlier termination of this Lease without a written extension or renewal executed by CITY, then:

(a) Such holding over shall be deemed a month-to-month tenancy, terminable by either party upon thirty (30) days' prior written notice;

(b) USA shall pay monthly rent equal to one hundred twenty-five percent (125%) of the Fixed Rent payable for the last full calendar month of the Term, plus all Additional Rent and other sums due under this Lease;

(c) USA shall be subject to all terms and conditions of this Lease other than those relating to term length or options to extend; and

(d) Nothing in this Section shall be deemed to grant USA any right to remain in possession after expiration or termination of the Term, and CITY's acceptance of rent shall not constitute consent to any such holding over.

3.04 Renewal Terms. USA shall have two options to renew or extend the term of this Lease for the Premises for a period of 5 years each, commencing immediately after the expiration of then then-current Term (the **"Renewal Term"**). USA may exercise a renewal option only by delivering written notice to CITY not less than 180 days and not more than 360 days before the expiration of the then-current Term. The written notice must state that USA is exercising its renewal option for the applicable Renewal Term. Time is of the essence with respect to USA's delivery of the renewal notice.

3.05 Conditions to Renewal. USA's right to renew is conditioned on each of the following

(a) No Default at Exercise. USA is not in default under this Lease beyond any applicable notice and cure period on the date USA delivers the renewal notice.

(b) No Default at Commencement. USA is not in default under this Lease beyond any applicable notice and cure period on the first day of the applicable Renewal Term.

(c) Lease in Effect. This Lease has not been terminated before the commencement of the applicable Renewal Term.

3.06 Renewal Rent. During each Renewal Term, USA shall pay monthly rent during the Renewal Term equal to 102% of the base rent payable during the final month of the immediately preceding Term, subject to annual increases of 2.0% on each anniversary of the commencement of the Renewal Term.

3.07 Continuation of Lease Terms During Renewal Term. Except as expressly modified by this Section, the Renewal Term shall be on the same terms, covenants, and conditions contained in this Lease.

3.08 Documentation. Promptly after USA validly exercises a renewal option, CITY and USA shall execute a written amendment confirming the applicable Renewal Term, renewal rent,

revised expiration date, and any other conforming terms. Failure to execute such amendment shall not invalidate a timely and valid exercise of the renewal option.

4.0 PERMITTED USE; COMPLIANCE WITH LAWS

4.01 Permitted Use. USA shall use and occupy the Premises solely for the following purposes (collectively, the **"Permitted Use"**):

(a) Operation of a public charter school authorized under the Charter, including classroom instruction, special education services, and related educational programs;

(b) Administrative offices and support spaces reasonably required for school operations;

(c) Student, staff, and parent meetings, and extracurricular programs reasonably related to the educational mission;

(d) Community and educational events reasonably related to USA's nonprofit and educational purposes, such as parent-teacher meetings, informational sessions, board meetings, after-school programs, and community outreach activities; and

(e) Any other use that is (1) incidental to the foregoing, (2) consistent with USA's Charter and nonprofit purposes, (3) consistent with the zoning and other applicable Laws, and (4) approved in writing in advance by CITY, which approval shall not be unreasonably withheld, conditioned, or delayed.

4.02 Prohibited Uses. USA shall not:

(a) Use or permit the Premises to be used for any purpose that is illegal or in violation of any applicable Law, or that materially interferes with the quiet enjoyment of neighboring property owners or occupants; or

(b) Use the Premises for any use unrelated to the educational mission; or

(c) Permit the Premises to be used primarily as a religious worship facility, although USA may conduct incidental student religious club activities consistent with applicable law.

4.03 Compliance with Laws. At its sole cost and expense (except as expressly allocated to CITY in this Lease), USA shall:

(a) Comply with all Laws applicable to the Premises, USA's use thereof, and USA's operations, including without limitation:

(i) The California Education Code applicable to charter schools, including sections 47600 et seq.;

(ii) The Charter and all conditions imposed by the Charter Authorizer;

(iii) Building, fire, health and safety, environmental, and accessibility codes and regulations;

(iv) Requirements of the applicable local fire marshal, building official, and health authorities; and

(v) Laws governing the safety and welfare of minors and school operations.

(b) Obtain and maintain all permits, licenses, approvals, and certifications required for USA's operation of the Charter school at the Premises.

(c) Not use or occupy the Premises or permit the same to be used or occupied in any manner that would cause the Premises, or any part thereof, to be in violation of any Laws, or any certificate of occupancy or similar permit.

4.04 Charter Status.

(a) USA represents and warrants that, as of the Effective Date:

(i) USA holds a valid and enforceable Charter issued by the Charter Authorizer;

(ii) USA is in substantial compliance with the Charter and applicable laws.

(b) USA shall:

(i) Maintain its Charter in full force and effect during the Term;

(ii) Promptly provide CITY copies of any notices from the Charter Authorizer or any governmental authority relating to potential revocation, non-renewal, material probation, or material corrective action concerning USA or the Charter;

(iii) Promptly notify CITY if USA becomes aware of any event or condition that is reasonably likely to result in revocation, non-renewal, or material limitation of the Charter.

(c) If USA's Charter is revoked or not renewed and no replacement charter is obtained for operation at the Premises within one hundred eighty (180) days following such revocation or non-renewal, CITY may, upon thirty (30) days' prior written notice, terminate this Lease effective as of a date specified in such notice, not less than thirty (30) days nor more than one hundred eighty (180) days following the expiration of the aforesaid cure period, subject to reasonable extension to allow completion of a school year if consistent with applicable law and CITY's reasonable discretion.

5.0 RENT AND OTHER CHARGES

5.01 Rent. Beginning on the Commencement Date and continuing throughout the Term, USA shall pay to CITY, without offset, deduction, or counterclaim (except as expressly permitted in this Lease), rent (**"Rent"**) in the amount of $3,200.00 per month / $38,400.00 per year, payable annually in advance on the first day of each Lease year.

5.02 Rent Adjustments. Rent shall be subject to adjustment as follows:

(a) On each anniversary of the Commencement Date during the Term, Rent shall increase by 2.0% of the Rent payable during the immediately preceding Lease year.

(b) CITY and USA acknowledge that beginning January 1, 2025, certain statutory protections may apply to "qualified commercial tenants" as defined in the California Civil Code. USA shall notify CITY in writing if USA qualifies as a "qualified commercial tenant" under applicable law, and the parties shall comply with any applicable statutory notice and rent adjustment requirements, including any required extended notice periods for rent increases or tenancy termination.

5.03 Manner of Payment. All Rent shall be paid in lawful money of the United States by check or other method reasonably acceptable to CITY, to:

(a) CITY at the address set forth in Section 21.0 below; or

(b) Such other place or to such other account as CITY may designate in writing.

5.04 Late Payments. Any installment of Rent or other sum due from USA under this Lease not received by CITY within twenty (20) Business Days after the date when due shall be subject to:

(a) A late charge of $150.00 as liquidated damages to compensate CITY for administrative and other costs resulting from USA's late payment, which the parties agree is a reasonable estimate of such costs and not a penalty; and

(b) Interest on the overdue amount (including any late charge) from the due date until paid in full at the lesser of ten percent (10%) per annum or the maximum rate permitted by applicable law.

5.05 Rent Net to CITY. Except as expressly provided otherwise in this Lease, this Lease is intended to be a net lease to CITY, and USA shall be responsible for all costs and expenses of operating, maintaining, and using the Premises in accordance with this Lease, subject to CITY's express obligations under Sections 6.0 and 7.0.

5.06 Possessory Interest Taxes. USA's leasehold interest in the Premises under this Lease constitutes a private possessory interest in publicly owned real property that is subject to taxation by the County of Del Norte (the **"County"**) under California Revenue and Taxation Code Section 107 and related provisions (such taxes, **"Possessory Interest Taxes"**). Possessory Interest Taxes are assessed and billed directly to USA by the County Assessor as the holder of the possessory interest, separately from any taxes assessed against the fee interest in the Premises. CITY, as a public entity, is exempt from property taxation and has no obligation to pay Possessory Interest Taxes assessed against USA's leasehold interest.

5.06.1 USA shall be solely responsible for and shall pay all Possessory Interest Taxes levied or assessed against USA's possessory interest in the Premises during the Term of this Lease and any extension or holdover period.

5.06.2 USA shall pay all Possessory Interest Taxes directly to the County tax collector or other appropriate taxing authority in accordance with the billing and payment procedures established by such authority. USA shall make such payments on or before the applicable delinquency date to avoid penalties and interest.

5.06.3 USA shall be solely responsible for and shall pay all penalties, interest, and collection costs imposed by the County or other taxing authority that result from:

(a) USA's failure to timely pay Possessory Interest Taxes when due.

(b) USA's failure to timely or accurately complete and file assessor questionnaires, property statements, or other required documents.

(c) USA's failure to cooperate with the County Assessor or provide requested information.

(d) Any underassessment of the possessory interest resulting from USA's inaccurate or incomplete disclosure of material facts.

5.06.4 USA's obligation to pay Possessory Interest Taxes is independent of and in addition to USA's obligation to pay Rent and all other charges under this Lease. USA shall have no right to any reduction, abatement, or offset of Rent by reason of the assessment or payment of Possessory Interest Taxes, regardless of the amount of such taxes or any change in the

method or rate of assessment. USA waives any claim that the imposition of Possessory Interest Taxes constitutes a tax on Rent or an improper allocation of tax burden.

5.06.5 USA is solely responsible for applying for any applicable possessory interest property tax exemption that may be available to USA. CITY makes no representation regarding the applicability of any such tax exemption.

5.06.6 USA's obligations under this Section shall survive the expiration or earlier termination of this Lease with respect to any Possessory Interest Taxes, penalties, interest, or other charges that accrue or relate to the period during which USA held a possessory interest in the Premises, whether assessed before or after such expiration or termination.

6.0 CONDITION OF PREMISES; CITY WORK

6.01 Delivery Condition. USA acknowledges that:

(a) USA has had an opportunity to inspect the Premises;

(b) USA accepts the Premises in their "as is," "where is" condition with all faults as of the Commencement Date, subject only to CITY's express covenants and warranties under this Lease; and

(c) CITY has made no representations or warranties, express or implied, regarding the condition, fitness for a particular purpose, or suitability of the Premises for USA's intended use.

6.02 CITY Work. CITY agrees to complete the work described with reasonable particularity in Exhibit C (the **"CITY Work"**). CITY shall:

(a) Perform the CITY Work in a good and workmanlike manner and in compliance with applicable Laws;

(b) Use commercially reasonable efforts to complete the CITY Work by the date stated in Exhibit C, subject to delays beyond CITY's reasonable control (including force majeure events and delays caused by USA or its contractors);

(c) Provide USA reasonable access to the Premises during completion of the CITY Work, consistent with safety and scheduling constraints.

6.03 Reimbursement for CITY Work. USA agrees to reimburse CITY for actual costs to complete the described work in Exhibit C, which shall not exceed $28,000. USA shall remit payment to CITY within 30 days of the date of the invoice(s) from CITY detailing the actual costs to complete the work. Amounts not received within 30 days will be subject to a $100 late fee and interest on the overdue amount (including any late fee) from the due date until paid in full at the lesser of ten percent (10%) per annum or the maximum rate permitted by applicable law.

6.04 No Implied Warranties. CITY disclaims all implied warranties, including warranties of habitability, fitness for a particular purpose, and merchantability, to the fullest extent permitted by Law.

6.05 Playground Maintenance. CITY will maintain the playground and swings and play structure currently located in the playground area. The cost of maintenance and repairs to the playground, swings and play structure, including periodic replenishment of wood chips, will be

shared equally by the Parties. USA will be responsible for the purchase of any additional playground equipment or structures.

7.0 MAINTENANCE AND REPAIR BY CITY

7.01 CITY's Obligations. Subject to reimbursement under this Lease where applicable, CITY shall maintain and repair, or cause to be maintained and repaired:

(a) The structural components of the Building, including the foundation, exterior walls (excluding damage caused to windows and doors by USA's use or occupancy of the Premises, and the interior surface of such walls), structural floor systems, and roof structure;

(b) The Building roof membrane and weatherproofing;

(c) Major building systems serving the Premises in general, including primary HVAC, plumbing, electrical, and fire sprinkler systems, to the extent such systems are not exclusively serving USA's equipment or specialized improvements;

(d) Fixtures and appliances present when the Lease commences; and

(e) Adjacent walkways, landscaping, and exterior lighting.

7.02 Standard of Performance. CITY shall perform required maintenance and repairs under this Section 7.0:

(a) In a commercially reasonable manner, consistent with the standard of comparable public or institutional buildings in the region;

(b) In compliance with applicable Laws; and

(c) Within a reasonable time after CITY's receipt of written notice from USA describing the need for maintenance or repair, subject to emergencies, budgetary constraints, and the nature of the work required.

7.03 Interruption of Service. CITY shall use commercially reasonable efforts to minimize interference with USA's use of the Premises in performing maintenance or repairs. USA acknowledges that:

(a) Certain maintenance or repair activities may temporarily interrupt utilities or access; and

(b) CITY shall not be liable for any such interruption, so long as CITY uses reasonable efforts to schedule and perform such work in a manner that reasonably minimizes disruption to school operations and is diligently pursued to completion.

7.04 Limitations. CITY shall have no obligation to:

(a) Repair or maintain any USA-installed improvements, trade fixtures, equipment, or personal property; and

(b) Repair damage to the Premises caused by USA, its employees, students, invitees, contractors, or agents, except to the extent covered by CITY's insurance and subject to USA's indemnification obligations.

8.0 MAINTENANCE AND REPAIR BY USA

8.01 USA's Obligations. At its sole cost and expense, USA shall:

(a) Maintain, repair, and keep clean, neat, safe, and in good order and condition:

(i) The interior portions of the Premises, including interior walls, ceilings, floor coverings, doors, windows (including glass and frames), interior lighting, and all finishes;

(ii) All non-structural components and elements of the Premises;

(iii) USA's fixtures, equipment, furnishings, and personal property;

(iv) Any other improvements installed by or for USA; and

(v) Any specialized systems or improvements installed specifically for USA's educational use or program.

(b) Promptly repair all damage to the Premises caused by USA or its employees, students, guests, invitees, contractors, or agents, except normal wear and tear.

(c) Keep the Premises in a clean, sanitary, and safe condition at all times consistent with school use.

8.02 Janitorial and Trash. USA shall:

(a) Provide all interior janitorial and cleaning services necessary for school operations, including cleaning of classrooms, offices, restrooms, and any other occupied spaces; and

(b) Provide appropriate trash and recycling receptacles, and ensure regular collection and proper disposal in compliance with Law.

8.03 Compliance With Laws. USA's maintenance and repair obligations include compliance with all Laws applicable to the condition and use of the Premises, except to the extent such compliance is expressly allocated to CITY in this Lease.

8.04 Notice to CITY. USA shall promptly notify CITY in writing of any:

(a) Condition in the Premises that USA reasonably believes requires CITY action under Section 7.0;

(b) Material defect in any building system or structural component; or

(c) Any event that reasonably could give rise to a claim against CITY or USA relating to the Premises.

8.05 Failure to Maintain. If USA fails to perform any of its maintenance or repair obligations after not less than fifteen (15) days' prior written notice from CITY (or such longer period as may be reasonably necessary to perform the work so long as USA promptly commences and diligently pursues such performance), CITY may, but shall not be obligated to, perform such obligations for USA's account. USA shall reimburse CITY for all reasonable, documented costs incurred in connection therewith within thirty (30) days after written demand, together with reasonable administrative costs not to exceed ten percent (10%) of such costs.

9.0 UTILITIES AND SERVICES

9.01 Utilities. USA shall, at its sole cost and expense, arrange and pay directly to the applicable providers for:

(a) Electricity, water, sewer, and any other utilities serving the Premises;

(b) Telecommunications and data services (telephone, internet, fiber, etc.); and

(c) Any additional services required by USA for school operations.

9.02 Interruption. CITY shall not be liable for any interruption or failure of utilities or services to the Premises that is not within CITY's reasonable control. CITY shall use commercially reasonable efforts to cause restoration of interrupted services within a reasonable time and to enforce its rights under utility or service contracts applicable to the Building.

9.03 Abatement of Rent. If:

(a) There is an interruption of utilities or essential services required for school operations (such as electricity, water, or sewer) that is caused by CITY's negligence or failure to perform an express obligation under this Lease, and

(b) Such interruption continues for more than one (1) Business Day and materially and adversely affects USA's ability to operate the school, then, subject to any limitations under applicable law, Rent shall be abated on a daily basis (utilizing a 30-day month) from and after the second (2nd) Business Day of such interruption until such services are substantially restored; provided that USA shall have no right of abatement to the extent the interruption is caused by USA or its contractors.

10.0 ALTERATIONS AND IMPROVEMENTS

10.01 USA Alterations. USA shall not make any alterations, additions, or improvements to the Premises (collectively, **"Alterations"**) without CITY's prior written consent, which consent shall not be unreasonably withheld, conditioned, or delayed, provided that:

(a) Cosmetic, non-structural alterations not affecting building systems may be made without CITY's prior consent, upon at least ten (10) Business Days' prior written notice describing the scope and schedule of the work; and

(b) All structural alterations or those affecting building systems shall require CITY's prior written consent in all cases.

10.02 Conditions of Approval. Any Alterations by or on behalf of USA shall:

(a) Be performed at USA's sole cost and expense;

(b) Be performed by qualified, properly licensed contractors;

(c) Comply with all applicable Laws, including building codes, accessibility standards, and prevailing wage requirements if applicable by law;

(d) Not impair the structural integrity or building systems of the Premises;

(e) Not unreasonably interfere with the operation of the Building;

(f) Be performed in a good and workmanlike manner, using new materials of quality reasonably consistent with or better than the existing improvements.

10.03 Plans and Permits. For any Alterations requiring CITY consent, USA shall:

(a) Submit to CITY for review and approval detailed plans and specifications;

(b) Obtain and maintain, at USA's expense, all required permits and approvals from governmental authorities; and

(c) Provide evidence of required insurance, including builder's risk and contractor's liability coverage, naming CITY as an additional insured.

10.04 Ownership of Alterations. Unless otherwise agreed in writing:

(a) All Alterations (other than USA's trade fixtures, furnishings, and equipment that are readily removable without damage to the Premises) shall become the property of CITY upon installation and shall remain upon and be surrendered with the Premises at the end of the Term without compensation to USA; and

(b) CITY may, as a condition of its consent, require USA to remove any particular Alteration at the end of the Term and restore the Premises to its prior condition, normal wear and tear excepted.

10.05 Mechanics' Liens. USA shall:

(a) Keep the Premises and Property free from any mechanics', materialmen's, or other liens arising out of or relating to USA's Alterations or other work;

(b) Cause any such lien to be released or bonded within thirty (30) days after USA's receipt of notice thereof; and

(c) Indemnify and hold CITY harmless from and against any such liens and related claims, costs, and expenses, except to the extent arising from CITY's acts or omissions.

11.0 INSURANCE

11.01 USA's Insurance. Throughout the Term, USA shall, at its sole expense, maintain the following insurance coverages:

(a) COMMERCIAL GENERAL LIABILITY (CGL)**.** Commercial general liability insurance written on an occurrence basis, with limits of not less than $2 million per occurrence and $4 million aggregate, or such higher limits as CITY may reasonably require from time to time based on comparable educational facility practices, covering bodily injury (including death), personal injury, and property damage, including contractual liability coverage for USA's indemnification obligations under this Lease.

(b) PROPERTY INSURANCE. Property insurance on a special causes of loss (formerly "all risk") basis insuring USA's personal property, trade fixtures, equipment, and any Alterations installed by or for USA to the extent of USA's insurable interest, in an amount not less than the full replacement cost thereof, with any deductible reasonably acceptable to CITY.

(c) WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY. Workers' compensation insurance as required by California law and employer's liability insurance with limits of not less than $1 million each accident, each employee, and policy limit.

(d) If USA maintains broader coverage and/or higher limits than the minimum shown above, CITY requires and shall be entitled to the broader coverage and/or the higher limits maintained by the Lessee. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to CITY.

11.02 CITY's Insurance. CITY shall maintain property insurance covering the Building and structural components of the Premises (excluding USA's Alterations and personal property), in

such amounts and with such deductibles and coverage terms as CITY reasonably determines consistent with public entity standards.

11.03 Policy Requirements. All insurance required of USA shall:

(a) Be issued by insurers licensed to do business in California and having an A.M. Best rating of at least A: VII or better;

(b) Name CITY, and at CITY's request, its elected and appointed officials, officers, employees, and agents as additional insureds under USA's commercial general liability policy, on a form reasonably acceptable to CITY;

(c) Be primary and noncontributory with respect to any insurance maintained by CITY, to the extent permitted by law;

(d) Contain a waiver of subrogation in favor of CITY where available on commercially reasonable terms.

11.04 Certificates. Prior to the Commencement Date and at each policy renewal, USA shall deliver to CITY certificates of insurance (and, upon request, copies of endorsements) evidencing the required coverages and additional insured status.

11.05 Failure to Maintain. USA's failure to maintain required insurance or deliver evidence thereof shall constitute a material default. CITY may, but shall not be obligated to, obtain such insurance on USA's behalf, and USA shall reimburse CITY for the cost thereof as Additional Rent within thirty (30) days after written demand.

12.0 INDEMNIFICATION; WAIVER OF CLAIMS

12.01 USA's Indemnity. To the fullest extent permitted by law, USA shall indemnify, defend (with counsel reasonably acceptable to CITY), and hold harmless CITY and its elected and appointed officials, officers, employees, agents, and representatives (collectively, the **"CITY Indemnitees"**) from and against any and all claims, demands, actions, damages, losses, liabilities, costs, and expenses (including reasonable attorneys' fees) arising from or related to:

(a) USA's use or occupancy of the Premises;

(b) The conduct of USA's operations, including educational, administrative, and extracurricular activities;

(c) Any act or omission of USA or its employees, students, invitees, licensees, contractors, or agents;

(d) USA's breach of this Lease; or

(e) Any violation by USA of any Laws.

This indemnity shall not apply to the extent any such claims, damages, or liabilities are caused by the gross negligence or willful misconduct of any CITY Indemnitee.

12.02 CITY's Indemnity. To the fullest extent permitted by law, CITY shall indemnify, defend (with counsel reasonably acceptable to USA), and hold harmless USA and its directors, officers, employees, and agents (collectively, the **"USA Indemnitees"**) from and against any and all claims, demands, actions, damages, losses, liabilities, costs, and expenses (including reasonable attorneys' fees) arising from or related to:

(a) Any gross negligence or willful misconduct of CITY or its employees, contractors, or agents in connection with the Premises; or

(b) Use of the playground by the public during non-school hours or activities;

(c) CITY's material breach of this Lease;

(d) except to the extent arising from the negligence or willful misconduct of USA or its affiliates.

12.03 Limitations. The indemnification obligations in this Section are intended to comply with applicable restrictions on indemnification by public entities and nonprofit organizations and shall be interpreted accordingly so as not to exceed such statutory or constitutional limitations.

13.0 DAMAGE OR DESTRUCTION

13.01 Notice of Casualty. If the Premises or any part thereof is damaged or destroyed by fire or other casualty (a **"Casualty"**), USA shall promptly notify CITY in writing, describing the nature and extent of the damage to the extent known.

13.02 Extent of Damage; CITY's Election. Within a reasonable time after a Casualty, CITY shall notify USA whether, in CITY's reasonable judgment, based on information then available:

(a) The Premises can be restored to substantially their prior condition within one hundred eighty (180) days after commencement of restoration work, subject to force majeure and delays in obtaining permits and insurance proceeds (**"Repairable Casualty"**); or

(b) The Premises cannot be so restored within such period, or CITY elects not to restore due to the extent of the damage, cost in relation to insured value, or other material factors (**"Non-Repairable Casualty"**).

13.03 Repairable Casualty. In the case of a Repairable Casualty:

(a) CITY shall, at its expense (to the extent of insurance proceeds and any other available funds), use commercially reasonable efforts to restore the structural components of the Premises and any CITY improvements to substantially the condition existing immediately prior to the Casualty, subject to then-current building code and legal requirements;

(b) USA shall, at its expense, repair or replace its Alterations, trade fixtures, equipment, furnishings, and personal property, and shall cooperate with CITY regarding timing and coordination of such work;

(c) Rent shall be equitably abated from and after the date of the Casualty in proportion to the extent that the damage materially impairs USA's ability to use the Premises for the Permitted Use, until the earlier of:

(i) Substantial completion of CITY's restoration work; or

(ii) The date USA reoccupies the affected portion of the Premises for normal school operations.

13.04 Non-Repairable Casualty or Failure to Restore. In the case of a Non-Repairable Casualty:

(a) CITY may elect to terminate this Lease by written notice to USA given within sixty (60) days after CITY's Casualty notice, in which event this Lease shall terminate as of the date specified in such notice, which shall not be earlier than thirty (30) days nor later than one hundred eighty (180) days after such notice;

(b) If CITY does not elect to terminate this Lease, CITY shall proceed with restoration as for a Repairable Casualty, subject to availability of insurance proceeds and financing, and Rent abatement shall apply based on a proportionate reduction in rent, measured daily using a 30-day month, for each day that the Premises cannot be utilized for it s intended purpose.

13.05 Termination by USA. Notwithstanding the foregoing, USA may elect to terminate this Lease by written notice delivered to CITY if:

(a) A Casualty results in substantial damage to the Premises that materially impairs USA's ability to operate the school, and

(b) CITY's reasonable estimate (based on information then available) indicates that restoration of the Premises to a condition reasonably suitable for resumption of school operations will not be completed within ninety (90) days after the date of the Casualty, or by a date that would prevent USA from operating during the next full school year, taking into account the school calendar and reasonable planning needs; provided that USA delivers such notice within thirty (30) days after CITY's notice under Section 13.02.

13.06 Insurance Proceeds. All insurance proceeds payable under CITY's property insurance shall belong to CITY, and all insurance proceeds payable under USA's property insurance shall belong to USA. To the extent this Lease requires restoration, both parties shall make such proceeds available to fund the required work, consistent with their respective obligations under this Lease.

13.07 No Damages for Inconvenience. Except as expressly provided in this Section 13.0, neither party shall have any claim against the other for any damages suffered as the result of a Casualty or any related restoration work, including without limitation loss of use or business interruption, except to the extent arising from the gross negligence or willful misconduct of the other party.

14.0 ASSIGNMENT AND SUBLETTING

14.01 Restriction on Transfers. USA shall not assign, sublease, license, mortgage, pledge, or otherwise transfer (collectively, **"Transfer"**) all or any part of its interest in this Lease or the Premises, whether voluntarily, involuntarily, by operation of law, or otherwise, without CITY's prior written consent, which consent shall not be unreasonably withheld, conditioned, or delayed, subject to the specific provisions of this Section 14.0.

14.02 Conditions to CITY Consent. In considering any proposed Transfer requiring CITY's consent, CITY may reasonably require:

(a) Evidence that the proposed transferee is financially and operationally capable of performing USA's obligations under this Lease;

(b) Evidence that the proposed transferee holds or will hold a valid charter or other educational authorization consistent with the Permitted Use, if the transferee will operate a school at the Premises;

(c) Execution by the transferee of a written assumption agreement, in form reasonably satisfactory to CITY, whereby the transferee assumes all of USA's obligations under this Lease with respect to the transferred interest;

(d) Receipt by CITY of any required approvals from bondholders, grantors, or other third parties, if applicable.

14.03 No Release. Except as otherwise expressly agreed in writing by CITY, no Transfer shall release USA from any of its obligations under this Lease, and USA shall remain jointly and severally liable with any transferee for the full performance of this Lease.

14.04 Prohibited Transfers. Any Transfer in violation of this Section 14.0 shall be voidable at CITY's election and shall constitute a material default under this Lease.

15.0 ENVIRONMENTAL MATTERS

15.01 Definition of Hazardous Materials. "Hazardous Materials" means any substances, materials, or wastes regulated or defined as hazardous, toxic, dangerous, or as a pollutant or contaminant under any applicable federal, state, or local environmental law, including but not limited to petroleum products, asbestos, PCBs, lead-based paint, and any substance which, if released into the environment, may require investigation, remediation, or other response under environmental laws.

15.02 USA's Use of Hazardous Materials. USA shall not use, generate, manufacture, store, or dispose of any Hazardous Materials on, under, or about the Premises, except:

(a) De minimis quantities of customary cleaning supplies and office, classroom, or maintenance materials used in the ordinary course of school operations, provided such materials are used, stored, handled, and disposed of in compliance with all Laws; and

(b) Any materials approved in writing by CITY and used in compliance with Laws.

15.03 USA's Environmental Obligations. USA shall:

(a) Comply with all environmental Laws relating to its use and occupancy of the Premises;

(b) Promptly notify CITY of any release or suspected release of Hazardous Materials on or about the Premises involving USA or of which USA becomes aware;

(c) Promptly remediate, at its expense, any Contamination (as defined by applicable law) caused by USA or its employees, contractors, students, or invitees, to the extent required by Law and in accordance with a remediation plan approved by CITY and the appropriate governmental authorities.

15.04 Pre-Existing Conditions. CITY shall be responsible, at its cost (subject to insurance and applicable third-party responsibility), for investigation and remediation of any Hazardous Materials present on or under the Premises as of the Commencement Date, unless released or exacerbated by USA.

15.05 Indemnity. USA shall indemnify, defend, and hold CITY harmless from and against any and all claims, damages, liabilities, and expenses (including reasonable attorneys' fees) arising out of or related to USA's violation of environmental Laws or its use of Hazardous Materials, except to the extent resulting from the negligence or willful misconduct of CITY or pre-existing conditions not caused or exacerbated by USA.

16.0 DEFAULT AND REMEDIES

16.01 Events of Default by USA. Each of the following shall constitute an **"Event of Default"** by USA:

16.01.1 Failure to pay any installment of Rent or other sum due hereunder within five (5) Business Days after written notice from CITY that such amount is past due, provided that CITY shall not be required to provide more than two (2) such notices in any twelve (12) month period, after which USA shall be in default without further notice if payment is not made when due;

16.01.2 Failure to perform any other material covenant, condition, or obligation under this Lease, which failure continues for thirty (30) days after written notice from CITY specifying the nature of the default; provided that if such failure cannot reasonably be cured within thirty (30) days, USA shall not be in default so long as USA commences cure within such period and diligently pursues such cure to completion;

16.01.3 Abandonment or vacating of the Premises for more than sixty (60) consecutive days during the school year without CITY's written consent, except for temporary closures required by law or public health orders;

16.01.4 Revocation, non-renewal, or material limitation of USA's Charter, where such event is not cured or reversed and USA does not obtain a replacement charter within the period specified in Section 4.04(c);

16.01.5 The appointment of a receiver for USA or a substantial portion of its assets, or the commencement by or against USA of any bankruptcy or insolvency proceeding which is not dismissed within ninety (90) days, unless prohibited by applicable law from constituting a default.

16.02 CITY's Remedies. Upon the occurrence of an Event of Default by USA and expiration of any applicable cure period, CITY may, subject to applicable law, exercise any or all of the following remedies:

16.02.1 Terminate this Lease by written notice to USA, in which event USA shall immediately surrender possession of the Premises, and CITY may recover from USA all damages permitted by law, including (to the extent permitted by California Civil Code section 1951.2) the worth at the time of award of:

(a) The unpaid Rent earned at the time of termination;

(b) The amount by which the unpaid Rent that would have been earned after termination until the time of award exceeds the amount of such Rent loss that USA proves could have been reasonably avoided; and

(c) The amount by which the unpaid Rent for the balance of the Term after the time of award exceeds the amount of such Rent loss that USA proves could have been reasonably avoided;

16.02.2 Continue this Lease in effect and enforce all rights and remedies under this Lease and under California Civil Code section 1951.4 (CITY may continue the lease in effect after USA's breach and abandonment and recover Rent as it becomes due, subject to CITY's duty, if any, to mitigate);

16.02.3 Re-enter and take possession of the Premises, remove USA and any persons or property, in accordance with applicable unlawful detainer and other laws governing possession, without terminating this Lease, and relet the Premises on USA's behalf, in which event USA shall remain liable for all Rent and other obligations, less any net rents received by CITY from reletting.

16.03 Mitigation. CITY shall use commercially reasonable efforts to mitigate its damages following any Event of Default by USA, consistent with its obligations as a public entity and CITY under applicable law.

16.04 Events of Default by CITY; USA's Remedies. If CITY fails to perform any of its material obligations under this Lease and such failure continues for thirty (30) days after written notice from USA (or such longer period as may be reasonably necessary to cure, provided CITY commences cure within such period and diligently pursues such cure):

16.04.1 USA may pursue any remedies available at law or in equity, subject to limitations on damages and claims against public entities under the California Government Claims Act and other applicable statutes; and

16.04.2 USA shall have no right to terminate this Lease for CITY's default except as expressly provided in this Lease, unless otherwise required by law or ordered by a court of competent jurisdiction.

17.0 QUIET ENJOYMENT

17.01 Covenant of Quiet Enjoyment. CITY covenants that, so long as USA is not in default under this Lease beyond any applicable cure period, USA shall have the peaceful and quiet use and enjoyment of the Premises for the Permitted Use, subject to the terms and conditions of this Lease and any matters of record to which this Lease is subordinate.

17.02 Public Use and Access. CITY reserves the right to permit reasonable public access to the Premises for official inspections, emergency response, and other governmental purposes consistent with USA's right to quiet enjoyment and applicable student privacy and safety requirements, provided that:

17.02.1 Except in emergencies, CITY shall provide USA with reasonable prior notice and coordinate access so as not to materially interfere with classroom instruction or school operations; and

17.02.2 CITY's rights shall be exercised in compliance with all applicable Laws relating to student privacy, safety, and security.

18.0 RESERVED RIGHTS OF CITY

18.01 Reservation of Rights. In addition to all other rights reserved to CITY under this Lease and by law, CITY reserves the right, upon reasonable prior notice to USA (except in emergencies), to:

18.01.1 Enter the Premises at reasonable times to inspect, repair, maintain, or improve the Premises or Building systems, or to show the Premises to prospective purchasers, USAs, or lenders, provided such entry does not unreasonably interfere with school operations;

18.01.2 Make changes, additions, or improvements to the Property outside the Premises (e.g., parking, driveways, landscaping), so long as such changes do not materially and adversely affect USA's access to or use of the Premises for the Permitted Use;

18.01.3 Install, maintain, and relocate utility lines, conduits, and other facilities in, on, or under the Premises, as reasonably necessary to serve the Premises or adjacent properties, subject to minimizing disruption to USA's operations.

19.0 SURRENDER OF PREMISES

19.01 Condition on Surrender. Upon expiration or earlier termination of this Lease, USA shall:

19.01.1 Vacate and surrender possession of the Premises to CITY in good order and condition, ordinary wear and tear and casualty damage excepted, consistent with USA's maintenance obligations under this Lease;

19.01.2 Remove all of USA's personal property, trade fixtures, and equipment and any Alterations that CITY has specifically required USA to remove, and repair any damage caused by such removal;

19.01.3 Leave the Premises broom-clean, with all trash and debris removed.

19.02 Failure to Surrender. If USA fails to surrender the Premises in the required condition, CITY may perform necessary cleaning, removal, and restoration work at USA's expense, and USA shall reimburse CITY as Additional Rent within thirty (30) days after written demand.

20.0 RELATIONSHIP TO CHARTER; EDUCATIONAL AUTONOMY

20.01 Educational Autonomy. CITY acknowledges that USA is a charter school with autonomy over its educational program and internal operations subject to the Charter and applicable law. Nothing in this Lease is intended to give CITY authority to control or direct USA's curriculum, staffing, or educational decisions, except to the extent necessary to enforce CITY's rights as property owner and lessor.

20.02 No Charter Authority. CITY is not the Charter Authorizer (unless specifically identified as such elsewhere in this Lease), and this Lease does not confer upon CITY any authority or obligation to oversee or enforce USA's compliance with charter school laws, except as expressly stated herein, nor does this Lease limit the rights or duties of the Charter Authorizer.

21.0 NOTICES

21.01 Notices. All notices, demands, requests, consents, approvals, and other communications (collectively, **"Notices"**) under this Lease shall be in writing and shall be deemed duly given if:

(a) Delivered personally;

(b) Sent by a nationally recognized overnight courier service, charges prepaid;

(c) Sent by certified mail, return receipt requested, postage prepaid; or

(d) Sent by email with confirmation of transmission and followed by one of the foregoing methods, in each case addressed as follows (or to such other address as either party may designate by written Notice to the other):

(i) If to CITY:

City of Crescent City
Attn: City Manager
377 J Street
Crescent City, CA 95531
Email: ewier@crescentcity.org

(ii) If to USA:

Uncharted Shores Academy
Attention: Dan Cartwright, Exec. Dir.
330 E Street
Crescent City, CA 95531
Email: dcartwright@shoresacademy.com

21.02 Effective Date. Notices shall be deemed received:

(a) On the date of personal delivery;

(b) On the next Business Day after deposit with an overnight courier;

(c) On the third Business Day after deposit in the United States mail as certified mail;

(d) On the date of email transmission if sent during normal business hours on a Business Day, or on the next Business Day if sent after business hours or on a non-Business Day, provided that a hard copy is also sent by one of the above methods.

22.0 MISCELLANEOUS

22.01 Governing Law. This Lease shall be governed by and construed in accordance with the laws of the State of California, without regard to its conflicts of law principles.

22.02 Venue. Any action or proceeding arising out of or relating to this Lease shall be brought in a state or federal court of competent jurisdiction located in or for the County of Del Norte, State of California.

22.03 Entire Agreement; Amendments. This Lease, together with its exhibits, constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior or contemporaneous agreements, representations, and understandings, whether written or oral. This Lease may be amended only by a written instrument executed by duly authorized representatives of both parties, subject to any applicable legal requirements for approval of municipal contracts.

22.04 No Waiver. No provision of this Lease shall be deemed waived by either party unless such waiver is in writing and signed by the waiving party. The waiver of any breach of any provision shall not be deemed a waiver of any subsequent breach.

22.05 Severability. If any provision of this Lease is held to be invalid, illegal, or unenforceable, the remaining provisions shall remain in full force and effect, and the invalid provision shall be construed, if possible, so as to achieve the intent of the parties to the fullest extent permitted by law.

22.06 No Third-Party Beneficiaries. Except as expressly provided in this Lease, nothing herein, express or implied, is intended to confer upon any person or entity other than the parties and their permitted successors and assigns any rights or remedies.

22.07 Counterparts; Electronic Signatures. This Lease may be executed in counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument. Signatures transmitted electronically or by facsimile shall be deemed original signatures for all purposes.

22.08 Authority. Each party represents and warrants that:

(a) It has full power and authority to enter into and perform this Lease;

(b) The individual(s) executing this Lease on its behalf are duly authorized to do so;

(c) This Lease has been duly approved in accordance with applicable laws and internal procedures, including any required approvals by the city council, school board, or governing body.

22.09 Time of Essence. Time is of the essence with respect to all obligations under this Lease for which time is expressly stated or reasonably implied to be a material element.

22.10 Government Claims Act. Nothing in this Lease shall be deemed a waiver of any immunities, defenses, limitations of liability, or procedural requirements (such as claims presentation requirements) that are available to CITY or USA under the California Government Claims Act or other applicable laws.

22.11 Non-Discrimination. In its use and occupancy of the Premises, USA shall comply with all applicable non-discrimination laws and policies, including those relating to equal access to educational programs and services without regard to race, color, religion, sex, sexual orientation, gender identity or expression, national origin, ancestry, disability, or any other status protected by law.

22.12 Conflict with Applicable Laws. If any provision of this Lease is determined to conflict with a mandatory requirement of the California Education Code or other applicable law governing charter schools or municipal property, the applicable law shall control, and the parties shall meet and confer in good faith to amend this Lease to conform to such law while preserving, to the maximum extent possible, the original intent of the parties.

IN WITNESS WHEREOF, the Parties hereto have caused this Lease to be executed by their duly authorized representatives as of the Effective Date.

CITY OF CRESCENT CITY, a California municipal corporation (CITY)

_____ Date: _____

Eric Wier, City Manager

APPROVED AS TO FORM:

_____

Martha D. Rice, City Attorney

UNCHARTED SHORES ACADEMY, a California nonprofit public benefit corporation (USA)

_____ Date: _____

By: Dan Cartwright, Executive Director

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
COUNTY OF DEL NORTE)

On _____, 2026, before me, _____,

Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
COUNTY OF _____)

On _____, 2026, before me, _____,

Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature

EXHIBIT A

Description of Leased Property

475 7th Street, Crescent City, CA 95531 [APN 118-020-040]: All that area depicted within the white lines described as follows: Beginning at the Northwest Property Corner of APN 118-020-040 and running northeasterly along the property line to the Northeast Building Corner, then southeasterly following the footprint of the building to the Southernmost Southeastern Building Corner, then southwesterly along the fence line to the property line on D Street, and then following the fence line enclosing the playground north back to the Northwest Property Corner.

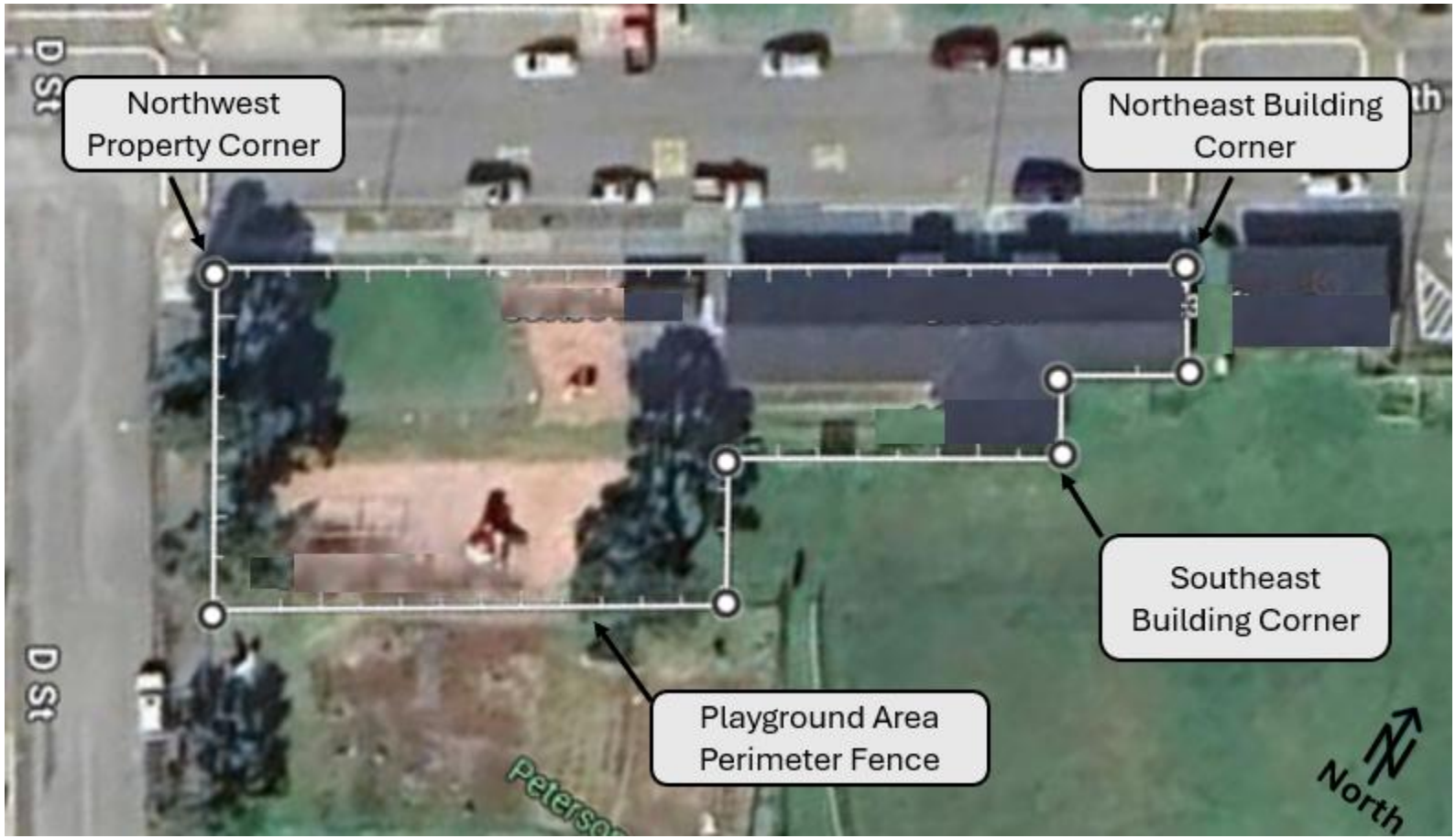

Northwest Property Corner
Northeast Building Corner
Southeast Building Corner
Playground Area Perimeter Fence
D St
D St
North

EXHIBIT B

Description of Premises and Site Plan

Description of Building(s) and improvements included in the Premises.

1. 3,120 square foot classroom/office building
2. 11,000 square foot playground with swing set and play structure
3. 200 square foot shed on playground

**Square footage is approximate*.

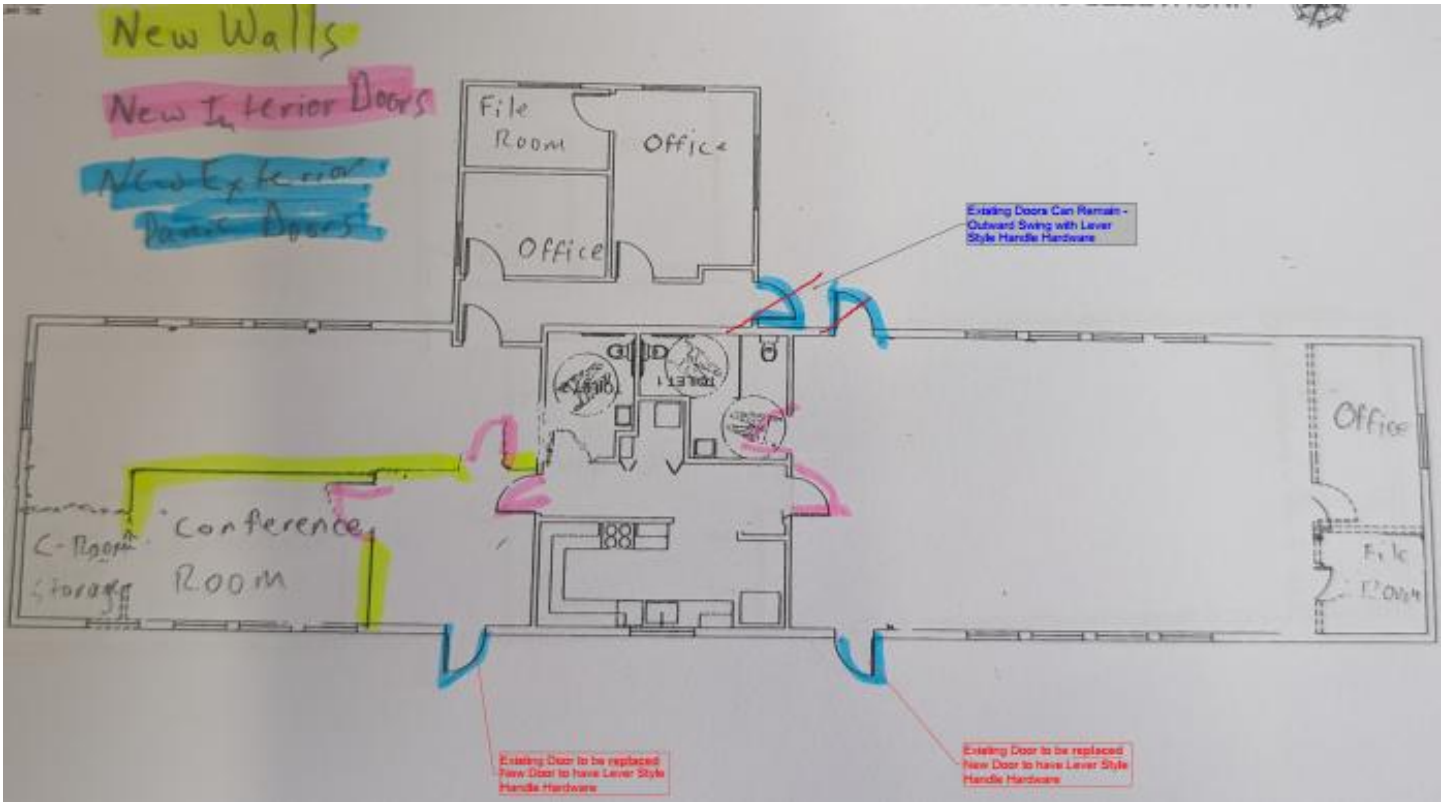
EXHIBIT C

CITY Work

CITY will perform the following work as soon as practicable after the execution of the Lease Agreement:

1. Procure and install two exterior doors with lever style handle hardware on the 7th Street side of the building (highlighted in blue).
2. Procure and install lever style handle hardware on the two exterior doors on the park side of the building (highlighted in blue with a red strikethrough).
3. Procure and install 5 interior doors with lever style handle hardware (highlighted in pink).
4. Construct new interior walls to create a conference room as requested by USA (highlighted in yellow).

The below drawing depicts the intent of the Parties relating to the above-described work.



CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **DAVID YEAGER, PUBLIC WORKS DIRECTOR**

DATE: **JUNE 15, 2026**

SUBJECT: **STORM DRAIN MASTER PLAN**

RECOMMENDATION

- *Hear staff report*
- *Technical questions from the Council*
- *Receive public comment*
- *Further Council discussion*
- Approve and adopt Resolution No. 2026-51, A Resolution of the City Council of the City of Crescent Approving the Storm Drain Master Plan Prepared by GHD Inc.
- Receive and approve the GHD Technical Memorandum – Extreme Event October 13, 2025, analysis

BACKGROUND

The Community Development Block Grant (CDBG) program is a federally funded program through the Department of Housing and Urban Development (HUD). The principal objective of CDBG is the development of viable urban communities by providing decent housing and a suitable living environment, and by expanding economic opportunities, principally for persons of low-and moderate-income.

As a non-entitlement jurisdiction (cities with population less than 50,000 and counties with populations less than 200,000), Crescent City applies for CDBG program funding through the State Department of Housing and Community Development (HCD). HCD receives funding from the federal government and released a Notice of Funding Availability (NOFA) to invite applications from jurisdictions within California on April 19, 2022.

The City applied for and was awarded $250,000 in CDBG grant funding under this NOFA for the Storm Drain Master Plan (SDMP) on June 22, 2023. On October 2, 2023, the City entered into a grant agreement with HCD for the Storm Drain Master Plan and executed a Professional Services Agreement with GHD to begin work on the project.

ITEM ANALYSIS

GDH has concluded their storm drain analysis and has presented the City with the attached Storm Drain Master Plan dated May 7, 2026. The Plan analyzes the entire City's storm drain system including inlets, manholes, and piping, and has created storm drain groups for each storm drain outfall. Once all the existing system sizes and drainage areas were placed within the model, GHD was able to analyze the areas contained within each watershed, described in the report as a grouping.

The standard analysis looked at impacts to the system utilizing a 10-year rain event as the standard. When these 10-year rain events were run through each storm drain grouping, potential flooding zones were predicted. From these flooding maps, a project list was created and prioritized. The details of each potential project included the upsizing of the piping required to eliminate potential flooding. In some cases, additional piping was included in the project.

The provided Storm Drain Master Plan will act as a guide for City staff to make future improvements to the storm drain system. It will also provide the documentation necessary for future grant requests to make these improvements.

An amendment to GHD's contract utilizing the storm drain system model created to produce the Master Plan was finalized on March 9, 2026. The amendment included a request for deeper analysis of the October 13, 2025 extreme rain event when the downtown area received up to 2.5-3.0 inches of rain within a two-hour time frame. Additionally, the City requested GHD to analyze the storm drain piping size for the current construction project on Front and K Streets, as well as analyze the design for a future 3rd Street downtown project. GHD was able to update their model to include the proposed storm drain piping sizes and confirm the pipe sizing is adequate before placement. This additional analysis has been submitted as the attached Technical Memorandum – Extreme Event October 13, 2025, analysis.

City staff recommends Council receive and approve this Storm Drain Master Plan so it can be used as an asset for future improvements to the City.

FISCAL ANALYSIS

The Storm Drain Master Plan provided by GHD was fully funded with the Community Development Block Grant. Amendment 1 was funded with SB1 funds for the K Street and 3rd Street portions and with RMAP funds for the extreme event analysis.

No additional funds are required.

STRATEGIC PLAN ASSESSMENT

GOAL 1: SUPPORT QUALITY SERVICES, COMMUNITY SAFETY, AND HEALTH TO ENHANCE THE QUALITY OF LIFE AND EXPERIENCE OF OUR RESIDENTS AND VISITORS

D. Provide and maintain an efficient, adequate infrastructure to provide for both current and future community needs

GOAL 2: PROMOTE A THRIVING LOCAL ECONOMY

A. Evaluate and optimize additional revenue sources

F. Plan and prepare for the growth and future needs of the Crescent City community by:

- Expanding on the success of grant funding by maximizing utilization of opportunities with corresponding community needs.

ATTACHMENTS

1. Resolution No. 2026-51 Approving the Storm Drain Master Plan Prepared by GHD Inc.
2. Extreme Event October 13, 2025 Analysis

RESOLUTION NO. 2026-51

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CRESCENT CITY APPROVING THE STORM DRAIN MASTER PLAN PREPARED BY GHD INC.

WHEREAS, the City applied for and received Community Development Block Grant funding for the development of a Storm Drain Master Plan; and

WHEREAS, following a publicly advertised Request for Proposals (RFP), the City selected GHD Inc. to perform the Storm Drain Master Plan; and

WHEREAS, the purpose of the Storm Drain Master Plan is to evaluate the performance of the existing storm drain system under current and future conditions, identify locations and causes of flooding, and develop a prioritized Capital Improvement Program (CIP) that supports the phasing and sequencing of capital planning and implementation; and

WHEREAS, the overall objective of the Storm Drain Master Plan is to support investment decisions that reduce flood risk and improve storm drain system reliability; and

WHEREAS, having an approved Storm Drain Master Plan is key to obtaining future grants to make the improvements contained within the Plan's Capital Improvement Program.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Crescent City, State of California that:

1. The Storm Drain Master Plan dated May 7, 2026 prepared by GHD Inc. is hereby approved.
2. Staff are directed to submit the Storm Drain Master Plan to the granting agency in compliance with grant requirements.

PASSED AND ADOPTED and made effective the same day by the City Council of the City of Crescent City at a regular meeting thereof held this 15th day of June 2026, by the following polled vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Isaiah Wright, Mayor

ATTEST:

_____
Robin Altman, City Clerk

Crescent City Storm Drain Master Plan

City Of Crescent City

May 07, 2026

→ The Power of Commitment



Project name		Crescent City Storm Drain Master Plan					
Document title		Crescent City Storm Drain Master Plan |					
Project number		12588710					
File name		12588710-working-Crescent_City_SDMP-DRAFT.docx					
Status Code	Revision	Author	Reviewer		Approved for issue		
			Name	Signature	Name	Signature	Date
S3	3	A. Garabedian	P. Sullivan				
S4		A. Garabedian			P. Sullivan		4/30/2026
S4		A. Garabedian			A. Shows		5/1/2026
S4		A. Garabedian			B. Vivyan		5/7/2026

GHD
Contact: Amber Shows, Project Manager
718 Third Street
Eureka, California 95501, United States
T +1 707 443 8326 | **E** info-northamerica@ghd.com | **ghd.com**

© GHD 2026
This document is and shall remain the property of GHD. The document may only be used for the purpose for which it was commissioned and in accordance with the Terms of Engagement for the commission. Unauthorised use of this document in any form whatsoever is prohibited.

Executive Summary

The Storm Drain Master Plan (SDMP) provides Crescent City with a comprehensive assessment of existing stormwater system performance, drainage deficiencies, and guidance of long-term capital investment decisions. The Plan was developed to reduce flooding risks, protect public health and safety, and enhance resilience to increasing precipitation intensity and tidal influence. The analyses and recommendations presented in this plan are based on extensive field data collection, hydrologic and hydraulic (H&H) modeling, and a prioritization framework.

This report is subject to, and must be read in conjunction with, the limitations set out in **Section 1.2 (Scope and Limitations)** and the assumptions and qualifications contained throughout the report.

Background and Purpose

Crescent City is situated within a highly dynamic coastal environment and experiences some of the highest average annual precipitation totals in California. Much of the City's storm drain infrastructure was constructed incrementally over the past several decades, often as part of roadway or site-specific improvements rather than as an integrated drainage system. As a result, portions of the system are undersized, aging, or tidally constrained, leading to recurrent flooding along critical transportation corridors, in residential and commercial neighborhoods, and near publicly accessible facilities.

The purpose of this Storm Drain Master Plan is to evaluate the performance of the existing storm drain system under current and future conditions, identify locations and causes of flooding, and develop a prioritized Capital Improvement Program (CIP) that supports the phasing and sequencing of capital planning and implementation. The overall objective of the SDMP is to support investment decisions that reduce flood risk and improve storm drain system reliability.

Approach and Methodology

The SDMP was developed using an integrated approach that included data collection, H&H modeling, systemwide evaluation, project development, and prioritization and phasing. Key elements of the approach included:

- **Data Collection**: Field surveys were conducted to inventory and assess approximately 67,000 linear feet of storm drain pipe, 405 drainage inlets, 67 manholes, and 10 outfalls. Data collection included verification of infrastructure location, depth, material, condition, and outfall characteristics, as well as confirmation of watershed boundaries and surface flow routing.
- **Hydrologic and Hydraulic Modeling**: A PCSWMM model was developed to simulate existing and proposed drainage conditions (based on proposed CIPs) throughout the City. The model incorporates both one-dimensional (pipe/junction) and two-dimensional (surface flooding) analyses to evaluate flood extent, depth, duration, and volume. Existing and future conditions were evaluated using the 2-, 10-, and 50-year, 24-hour SCS Type IA design storms based on NOAA Atlas 14 precipitation data, with tidal boundary conditions applied at coastal outfalls. Climate change projections were incorporated to assess mid-century and late-century increases in precipitation intensity.
- **Drainage Deficiency Analysis**: Flooding locations and capacity-limited infrastructure were identified and grouped into ten drainage groups based on downstream outfall connectivity. These findings informed development of an idealized hydraulic solution and subsequent CIP development.
- **Capital Improvement Project Development**: Potential CIPs were developed to address identified deficiencies through conveyance upgrades, inlet enhancements, surface flow relief, outfall improvements, and detention or storage where feasible.
- **Prioritization and Phasing**: CIPs were evaluated using a weighted prioritization framework addressing public safety, property impacts, infrastructure condition, regulatory complexity, feasibility, water quality, and trash capture opportunities.

Drainage Deficiency Analysis Results

The drainage deficiency analysis confirms that flooding in Crescent City is driven by a combination of flat coastal topography, tidally influenced outfalls, undersized or deteriorating infrastructure, and increasingly intense rainfall. Under existing conditions, flooding is concentrated in low-lying areas, along Highway 101 and other major arterials, and within older residential and commercial neighborhoods with limited drainage capacity. Modeled results indicate that flood extent, depth, and duration increase notably under larger storm events and future climate projections.

The drainage deficiency analysis identified capacity constraints and operational issues across all ten drainage groups, with significant flooding in Drainage Groups 5, 4, 2, and 3. These areas include drainage infrastructure assessed to be in emerging or critical condition and exhibit recurring flooding near critical roadways and dense development.

Capital Improvement Projects and Costs

The SDMP identifies a set of Capital Improvement Projects organized by drainage group. Proposed improvements collectively provide substantial reductions in modeled flooding under present-day design storms and meaningful resilience benefits under future climate scenarios. Planning-level opinions of probable cost were developed for each CIP, including construction, engineering and construction management, and anticipated environmental compliance and permitting.

The total program-level Class V cost for implementation of all recommended CIPs is **$53,000,000**, reflecting the extent of infrastructure upgrades required to achieve the desired level of service across the City. These estimates establish a reasonable planning foundation for budgeting, grant applications, and coordination with funding agencies.

Prioritization and Recommended Phasing

Based on the prioritization analysis, drainage groups were classified into High, Medium, and Low priority categories to support strategic sequencing of capital investments:

- **High Priority**: Drainage Groups 5, 4, 2, and 3, which affect critical access routes, experience extensive flooding near homes and businesses, and contain aging infrastructure in poor condition.
- **Medium Priority**: Drainage Groups 8, 9, 10, and 1, where flooding impacts are more localized but improvements still provide measurable risk reduction and asset renewal benefits.
- **Low Priority**: Drainage Groups 6 and 7, which experience limited flooding and fewer impacts to critical facilities or transportation corridors.

A phased implementation strategy was developed to account for hydraulic interdependencies, constructability, and regulatory complexity. **Near-term (Phase A)** projects focus on downstream improvements that increase system capacity and provide the greatest systemwide benefit, followed by **mid-term (Phase B)** and **long-term (Phase C)** projects as funding and coordination allow.

Conclusions

This Storm Drain Master Plan provides Crescent City with a framework to reduce flood risk, improve stormwater system performance, and plan for future climate conditions. The Plan integrates robust technical analysis with implementation guidance and establishes a prioritized and phased set of CIPs for capital investment. As projects advance, continued coordination with regulatory agencies, refinement of cost estimates, and periodic updates to the SDMP are recommended to incorporate new data, completed improvements, and evolving community needs.

Contents

1. Introduction **1**
- 1.1 Purpose 2
- 1.2 Scope and Limitations 3
- 1.3 Assumptions 3

2. Project Background **3**
- 2.1 Summary of Existing Storm Drain System 3
- 2.2 Regulatory Requirements 4
  - 2.2.1 NPDES Phase II MS4 Permit 4
  - 2.2.2 Trash Capture 5

3. Equity Analysis **6**

4. Data Collection Field Surveys **7**

5. Computational Model Development **7**

6. Drainage Deficiency Analysis of Existing Conditions **8**
- 6.1 Overview of Flooding 8
- 6.2 Summary of Systemwide Performance 10
- 6.3 Summary of Flooding by Drainage Group 11
  - 6.3.1 Drainage Group 1 12
  - 6.3.2 Drainage Group 2 13
  - 6.3.3 Drainage Group 3 15
  - 6.3.4 Drainage Group 4 17
  - 6.3.5 Drainage Group 5 20
  - 6.3.6 Drainage Group 6 21
  - 6.3.7 Drainage Group 7 23
  - 6.3.8 Drainage Group 8 24
  - 6.3.9 Drainage Group 9 25
  - 6.3.10 Drainage Group 10 27
- 6.4 Deficiency Analysis 28
  - 6.4.1 Approach 28
  - 6.4.2 Idealized Solution and Limitations 28

7. Development of Potential Capital Improvement Projects (CIP) **29**
- 7.1 Approach to CIP Development 29
- 7.2 Types of Drainage Improvements Considered 29
- 7.3 Environmental Compliance and Permitting 29
- 7.4 Potential Capital Improvement Projects 30
  - 7.4.1 DG1.1 31
  - 7.4.2 DG2.1B 32
  - 7.4.3 DG2.2 33
  - 7.4.4 DG2.2B 34
  - 7.4.5 DG3.1A 35

7.4.6 DG3.1B 36
7.4.7 DG3.2A 37
7.4.8 DG3.2B 38
7.4.9 DG3.2C 39
7.4.10 DG3.3A 40
7.4.11 DG3.3B 41
7.4.12 DG4.1A 42
7.4.13 DG4.1B 43
7.4.14 DG4.2 44
7.4.15 DG4.3 45
7.4.16 DG5.1 46
7.4.17 DG5.2 47
7.4.18 DG5.3 48
7.4.19 DG5.4 49
7.4.20 DG5.5 50
7.4.21 DG6.1 51
7.4.22 DG7.1 52
7.4.23 DG8.1 53
7.4.24 DG9.1 54
7.4.25 DG10.1 55
7.5 Model Results with Proposed Improvements 56
7.6 CIP Opinion of Probable Costs 61
8. Evaluation and Prioritization of Capital Improvement Projects (CIP) 62
8.1 Prioritization Framework 62
8.2 Application of Prioritization Criteria 63
8.3 CIP Prioritization Results 64
8.3.1 Drainage Group 1 64
8.3.2 Drainage Group 2 66
8.3.3 Drainage Group 3 68
8.3.4 Drainage Group 4 70
8.3.5 Drainage Group 5 72
8.3.6 Drainage Group 6 74
8.3.7 Drainage Group 7 76
8.3.8 Drainage Group 8 78
8.3.9 Drainage Group 9 80
8.3.10 Drainage Group 10 82
8.4 Summary of Prioritization Outcomes 84
9. Recommended Phasing of Capital Improvement Program 87
9.1 Recommended CIP Phasing and Sequencing 87
9.1.1 Near-Term – Phase A 87
9.1.1.1 Drainage Group 10 87
9.1.1.2 Drainage Group 5 87
9.1.1.3 Drainage Group 4 87
9.1.2 Mid-Term – Phase B 88
9.1.2.1 Drainage Group 2 88
9.1.2.2 Drainage Group 3 88
9.1.3 Long-Term – Phase C 88

9.1.3.1 Drainage Group 1 89
9.1.3.2 Drainage Group 8 and 9 89
9.1.3.3 Drainage Group 6 and 7 89
9.1.4 Summary of Recommended CIP Phasing and Sequencing 89
9.2 Conclusion and Recommendations 91
Conditions Assessment 102
Junctions 102
Conduits 103
Flow Length and Slope 120
Subcatchment Curve Number and Pervious Area 120
Subcatchment Time of Concentration 121
Junctions 123
Closed and Open Channel Conduit Analysis 126
Storages 127

Table index

Table 6.1 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 1 13
Table 6.2 Existing Number of Drainage Inlets and Manholes within Drainage Group 1 13
Table 6.3 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 2 14
Table 6.4 Quantities of Junctions and Flooding Results within Drainage Group 2 for the 10-year Storm and Tidal Event 15
Table 6.5 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 3 16
Table 6.6 Quantities of Junctions and Flooding Results within Drainage Group 3 for the 10-year Storm and Tidal Event 17
Table 6.7 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 4 18
Table 6.8 Quantities of Junctions and Flooding Results within Drainage Group 4 for the 10-year Storm and Tidal Event 19
Table 6.9 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 5 20
Table 6.10 Quantities of Junctions and Flooding Results within Drainage Group 5 for the 10-year Storm and Tidal Event 21
Table 6.11 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 6 22
Table 6.12 Quantities of Junctions and Flooding Results within Drainage Group 6 for the 10-year Storm and Tidal Event 23
Table 6.13 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 7 24
Table 6.14 Quantities of Junctions and Flooding Results within Drainage Group 7 for the 10-year Storm and Tidal Event 24
Table 6.15 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 8 25

Table 6.16	Quantities of Junctions and Flooding Results within Drainage Group 8 for the 10-year Storm and Tidal Event	25
Table 6.17	Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 9	26
Table 6.18	Quantities of Junctions and Flooding Results within Drainage Group 9 for the 10-year Storm and Tidal Event	26
Table 6.19	Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 10	27
Table 6.20	Quantities of Junctions and Flooding Results within Drainage Group 10 for the 10-year Storm and Tidal Event	28
Table 7.1	Comparison of Model Results between Existing Conditions and Proposed Improvements	60
Table 7.2	Cost Estimate Summary by CIP and Drainage Group	61
Table 8.1	Prioritization Scoring Criteria	62
Table 8.2	Drainage Group 1 Prioritization Score	65
Table 8.3	Drainage Group 2 Prioritization Score	67
Table 8.4	Drainage Group 3 Prioritization Score	69
Table 8.5	Drainage Group 4 Prioritization Score	71
Table 8.6	Drainage Group 5 Prioritization Score	73
Table 8.7	Drainage Group 6 Prioritization Score	75
Table 8.8	Drainage Group 7 Prioritization Score	77
Table 8.9	Drainage Group 8 Prioritization Score	79
Table 8.10	Drainage Group 9 Prioritization Score	81
Table 8.11	Drainage Group 10 Prioritization Score	83
Table 8.12	Drainage Group Prioritization Summary	86
Table 9.1	Flow routing metadata	96
Table 9.2	Field Data to be Collected for H&H Deficiency Analysis – Junctions	102
Table 9.3	Field Data to be Collected for H&H Deficiency Analysis – Conduits	104
Table 9.4	City of Crescent City SDMP Meta Data and incorporation into the project development - summary	105
Table 9.5	List of rainstorm events that drainage inlets and manholes were observed to overflow	105
Table 9.6	Maximum 1-day Precipitation for three 30-year time periods (Livneh, 2015)	112
Table 9.7	RCP 4.5 and RCP 8.5 projected changes in 30-year periods to the NOAA-14 Rainfall Intensity for the 2-yr 24-hour, 10-yr 24-hour, and 50-yr 24-hour rainfall events	113
Table 9.8	Linear feet of drainage pipe in Crescent City drainage system by diameter	126

Figure index

Figure 1.1	City of Crescent City Boundary.	2
Figure 2.1	Existing Storm Drain Infrastructure Map in Crescent City.	4
Figure 6.1	Flooding Extent and Depth under Existing Condition – 10-year, 24-hour SCS Type 1A Storm	9

Figure 6.2	Flooding Extent and Depth under Existing Condition – 50-year, 24-hour SCS Type 1A Storm	10
Figure 6.3	Key Map of Drainage Groups – Existing Conditions	12
Figure 6.4	Flooding Location(s) within Drainage Group 1 for the 10-year Storm and Tidal Event.	13
Figure 6.5	Flooding Location(s) within Drainage Group 2 for the 10-year Storm and Tidal Event	14
Figure 6.6	Flooding Location(s) within Drainage Group 3 for the 10-year Storm and Tidal Event	16
Figure 6.7	Flooding Location(s) within Drainage Group 4 for the 10-year Storm and Tidal Event	18
Figure 6.8	Flooding Location(s) within Drainage Group 5 for the 10-year Storm and Tidal Event	20
Figure 6.9	Flooding Location(s) within Drainage Group 6 for the 10-year Storm and Tidal Event	22
Figure 6.10	Flooding Location(s) within Drainage Group 7 for the 10-year storm and tidal event.	23
Figure 6.11	Flooding Location(s) within Drainage Group 8 for the 10-year storm and tidal event.	25
Figure 6.12	Flooding Location(s) within Drainage Group 9 for the 10-year storm and tidal event.	26
Figure 6.13	Flooding Location(s) within Drainage Group 10 for the 10-year storm and tidal event.	27
Figure 7.1	Key Map of Drainage Groups – Proposed Conditions	31
Figure 7.2	CIP DG1.1	32
Figure 7.3	CIP DG2.1B	33
Figure 7.4	CIP DG2.2	34
Figure 7.5	CIP DG2.2B	35
Figure 7.6	CIP DG3.1A	36
Figure 7.7	CIP DG3.1B	37
Figure 7.8	CIP DG3.2A	38
Figure 7.9	CIP DG3.2B	39
Figure 7.10	CIP DG3.2C	40
Figure 7.11	CIP DG3.3A	41
Figure 7.12	CIP DG3.3B	42
Figure 7.13	CIP DG4.1A	43
Figure 7.14	CIP DG4.1B	44
Figure 7.15	CIP DG4.2	45
Figure 7.16	CIP DG4.3	46
Figure 7.17	CIP DG5.1	47
Figure 7.18	CIP DG5.2	48
Figure 7.19	CIP DG5.3	49
Figure 7.20	CIP DG5.4	50
Figure 7.21	CIP DG5.5	51
Figure 7.22	CIP DG6.1	52
Figure 7.23	CIP DG 7.1	53
Figure 7.24	CIP DG8.1	54
Figure 7.25	CIP DG9.1	55
Figure 7.26	CIP DG10.1	56
Figure 7.27	Flooding Extent and Depth under Proposed Condition – Present Day 10-year, 24-hour SCS Type 1A Storm	57
Figure 7.28	Flooding Extent and Depth under Proposed Condition – Mid-Century Climate Projection 10-year, 24-hour SCS Type 1A Storm	58

Figure 7.29	Flooding Extent and Depth under Proposed Condition – Late-Century Climate Projection 10-year, 24-hour SCS Type 1A Storm	59
Figure 8.1	Drainage Group 1 – CIP Key Map	65
Figure 8.2	Drainage Group 2 – CIP Key Map	67
Figure 8.3	Drainage Group 3 – CIP Key Map	69
Figure 8.4	Drainage Group 4 – CIP Key Map	71
Figure 8.5	Drainage Group 5 – CIP Key Map	73
Figure 8.6	Drainage Group 6 – CIP Key Map	75
Figure 8.7	Drainage Group 7 – CIP Key Map	77
Figure 8.8	Drainage Group 8 – CIP Key Map	79
Figure 8.9	Drainage Group 9 – CIP Key Map	81
Figure 8.10	Drainage Group 10 – CIP Key Map	83
Figure 9.1	Recommended Phasing of CIP Implementation by Drainage Group	90
Figure 9.2	Phase A – Recommended Sequence of CIP Implementation	90
Figure 9.3	Phase B – Recommended Sequence of CIP Implementation	91
Figure 9.4	Phase C – Recommended Sequence of CIP Implementation	91
Figure 9.5	Conformed DEM.	101
Figure 9.6	Approximate Geographic Boundaries for SCS Storm Distributions. (From HEC-HMS Technical Reference Manual, ACOE).	109
Figure 9.7	Rainfall Intensity Curves for Multiple Return Periods (SCS Type IA).	110
Figure 9.8	Intensity Duration Frequency Curve for Precipitation at Project Site.	111
Figure 9.9	Maximum 1-day Precipitation for three 30-year time periods (Livneh, 2015).	112
Figure 9.10	Outfall locations with respective drainage groups.	114
Figure 9.11	California Open Coast Province Map (Highway Design Manual, 2020).	115
Figure 9.12	One Percent Compound Frequency Curve for Province 1 (Highway Design Manual, 2020).	116
Figure 9.13	2-yr SCS Type 1a 24-hour design storm hydrograph with peak rainfall aligned with peak MHH for 2-yr compound frequency tidal event.	117
Figure 9.14	10-yr SCS Type 1a 24-hour design storm hydrograph with peak rainfall aligned with peak MHH for 10-yr compound frequency tidal event.	117
Figure 9.15	50-yr SCS Type 1a 24-hour design storm hydrograph with peak rainfall aligned with peak MHH for 50-yr compound frequency tidal event.	118
Figure 9.16	FEMA National Flood Hazard Layer FIRMette illustrating location of Outfall 1 (Federal Emergency Management Agency, 2024).	119
Figure 9.17	Watershed delineated subcatchments. Dark green represent subcatchment boundaries, red perforated lines illustrate point of concentrated flow.	120
Figure 9.18	Existing Drainage Infrastructure Flow Route Plan View.	122
Figure 9.19	Dual drainage system components (CHI PWSWMM, 2024).	123
Figure 9.20	Manhole investigated during data collection near Front St.	124
Figure 9.21	Curb inlet found in field data collection.	124
Figure 9.22	Grate inlet found in field data collection.	125
Figure 9.23	Grate inlet found in field data collection.	125
Figure 9.24	Storm drain inlet types summary (Federal Highway Administration, 2024).	126
Figure 9.25	Plan view of drainage network with bounding layer boundaries.	129
Figure 9.26	Mesh layer connection with sample drainage inlet.	130

Appendices

Appendix A	Assumptions
Appendix B	Equity Analysis
Appendix C	Data Collection Field Surveys
Appendix D	Computation Model Development
Appendix E	Preliminary Assessment of Anticipated Environmental Review and Permitting Requirements

Attachments

Attachment 1	Crescent City Priority Land Uses
Attachment 2	NOAA-14 Precipitation Frequency Estimates
Attachment 3	Subcatchment Parameters
Attachment 4	SCS Curve Numbers
Attachment 5	Base Condition Model Data
Attachment 6	Storage Curves

1. Introduction

The City of Crescent City (City) is located in Del Norte County near the coastal Oregon border in California, approximately 85 miles north of Eureka, CA. Like other communities on California's North Coast, the City records some of the highest mean annual precipitation totals in the State. From 1991 – 2020, the City observed a mean annual precipitation total of 52.9 inches (NOAA, 2020). The purpose of the City's stormwater drainage system is to provide conveyance of rainfall from developed areas within the City's boundary to outfall points. Residents and property owners benefit from this system because it reduces flooding which reduces property damage and increases public health and safety.

The City is in need of an updated inventory of existing stormwater infrastructure and recommended improvements to the stormwater drainage system to assist in keeping residents from being subjected to flooding in their homes, yards, streets, and other locations where services are accessed. A significant proportion of the stormwater infrastructure was constructed in piece-wise projects over the course of 50+ years, with many of these projects having non-stormwater related goals but stormwater elements, such as road improvements, parking lots, public facilities, etc. Furthermore, the California Department of Water Resources' Climate Change Technical Advisory Group has forecasted an increase in precipitation intensity for all design storms as a result of climate change. The Storm Drain Master Plan includes data collection of the existing infrastructure, an analysis of hydrology and hydraulic drainage deficiencies, and an equity-informed list of proposed projects that prioritize the most critical areas requiring drainage enhancement. The Crescent City Storm Drain Master Plan considers the area located within the City's boundary illustrated below in **Figure 1**.



Figure 1.1 City of Crescent City Boundary.

1.1 Purpose

The purpose of the Storm Drain Master Plan is to propose stormwater drainage system improvements that provide a certain level of service to the community. The drainage system improvements were developed to mitigate flooding in homes, yards, streets, and other locations where services are accessed. *The overall objective of the Storm Drain Master Plan is to inform capital investment and sequencing of drainage infrastructure improvements for Crescent City*. The scope of work to prepare the Master Plan included the following tasks:

1. **Inventory.** Update inventory of existing storm drain system via mapping and field surveying.
2. **Base Condition H&H Model.** Develop hydrology and hydraulics drainage deficiency analysis of the existing stormwater infrastructure using PCSWMM modelling software.
3. **Flood Evaluation.** Identify potential flood hazards and problem areas in each drainage basin under simulated design storm scenarios.
4. **Proposed Condition H&H Model.** Update hydrology and hydraulics drainage analysis in PCSWMM with proposed improvements to evaluate its projected reduction in flood impacts.
5. **Recommend Improvements.** Identify and prioritize an equity-informed list capital improvements projects (CIP) with cost estimates based on the City's priorities, anticipated costs, and projected reduction in flood impacts.

1.2 Scope and Limitations

This report: has been prepared by GHD for City Of Crescent City and may only be used and relied on by City Of Crescent City for the purpose agreed between GHD and City Of Crescent City as set out in section 1.3 of this report.

GHD otherwise disclaims responsibility to any person other than City Of Crescent City arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report (refer section 1.3 of this report). GHD disclaims liability arising from any of the assumptions being incorrect.

Accessibility of documents

If this report is required to be accessible in any other format, this can be provided by GHD upon request and at an additional cost if necessary.

1.3 Assumptions

The Hydrology and Hydraulics (H&H) analysis supporting development of the Capital Improvement Projects (CIPs) was prepared based on assumptions regarding outfall boundary conditions and the accuracy of GPS equipment used during field data collection. Model reliability is dependent on the quality and completeness of available data describing existing, planned, and partially constructed storm drainage infrastructure, which was supplemented and refined through field reconnaissance. The datasets used to develop and support flow routing and modeling assumptions are documented in the flow routing metadata provided in **Appendix A**.

2. Project Background

2.1 Summary of Existing Storm Drain System

The existing storm drain network is a combination of open channel flow, underground conduit gravity flow systems, and storm water detention basins. The City's storm drainage routes to ten (10) outfalls, nine (9) of which are considered tidally influenced outfalls and one (1) that drains eastward into the adjacent Elk River Estuary. See Section 3 below for further details of the City's existing storm drain infrastructure inventory. The City's understanding of the existing storm drainage infrastructure is based on historic knowledge of its maintenance crew and does not have detailed documentation of the pipe diameter, material and relative condition. However, most drainage inlets and connecting conduit locations are known, see Figure 2.1 below for the preliminary storm drain infrastructure data provided by the City. Through field data collection, the location, depth, and relative condition of the manholes and drainage inlets in the system were documented and utilized in the H&H analysis. Additionally, the conduit material, buried depth, diameter, and relative condition were recorded and documented through field data collection. See Section 3 below for further details of field data collection methodology and results.

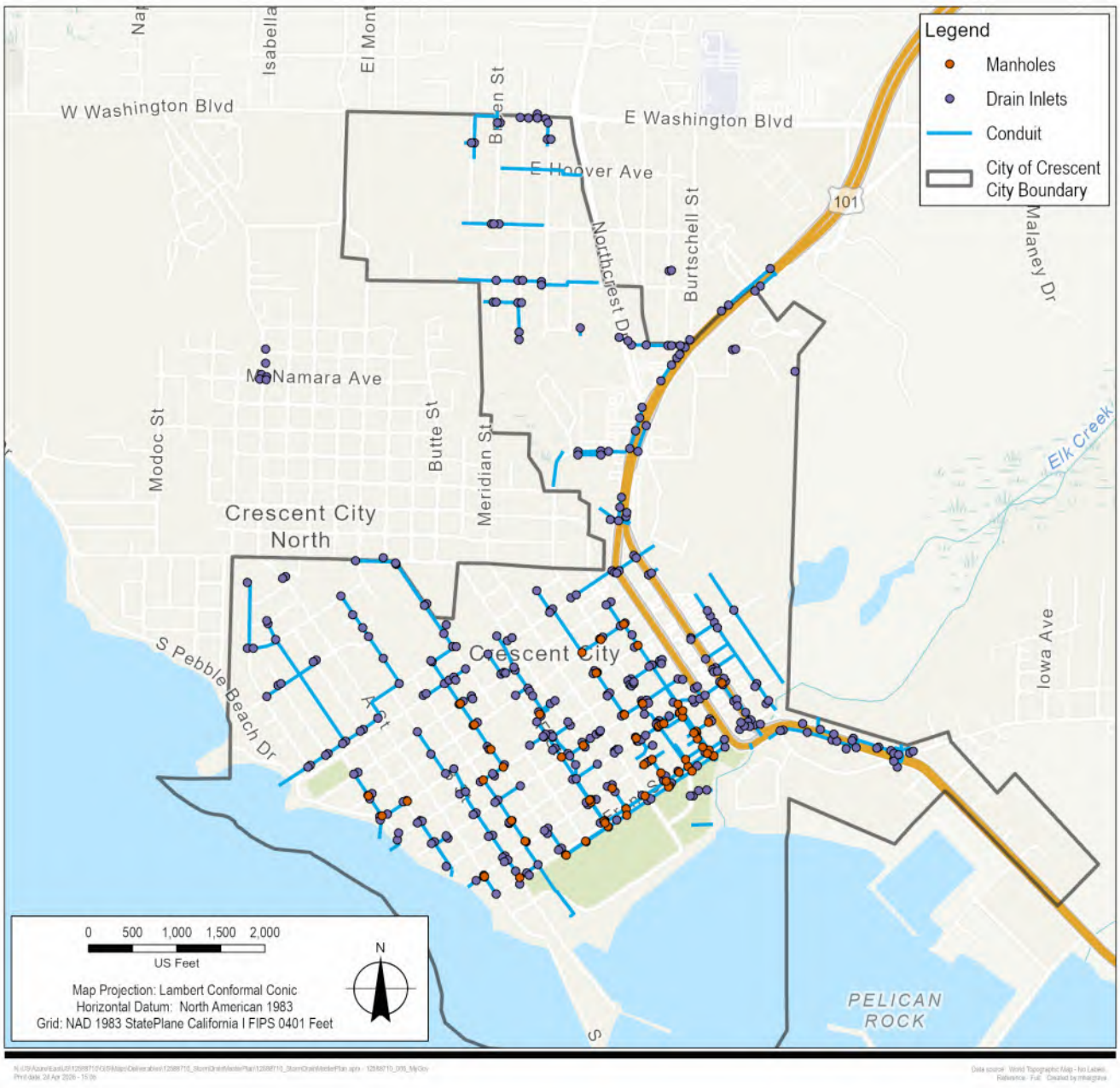


Figure 2.1 ***Existing Storm Drain Infrastructure Map in Crescent City.***

2.2 Regulatory Requirements

As of 2025, Del Norte County does not have a single, standalone stormwater drainage manual. Del Norte County typically defers to California Department of Transportation's (CalTrans) stormwater design standards. Stormwater drainage systems in Del Norte County are regulated by permits issued by the California State Water Resources Control Board.

2.2.1 NPDES Phase II MS4 Permit

In 2013, the California State Water Resources Control Board (SWRCB) permitted the City's storm drain system under the National Pollutant Discharge Elimination System (NPDES) General Permit for Waste Discharge Requirements for

Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s), hereby known as the Phase II MS4 Permit. The Phase II MS4 Permit required the City to develop and implement a stormwater management program and establish legal authority to enforce stormwater controls through ordinances and policies. The stormwater management program intends to create and maintain facility inventories and maps, illicit discharge detection and elimination programs, pollution prevention and good housekeeping practices, construction and post-construction runoff controls, and asset maintenance plans for MS4 infrastructure.

Phase II MS4 Permittees must develop a Long-term Asset Operation and Improvement Plan within five years of the permit's effective date and update it annually as new storm drain system components are inventoried and assessed. The plan must include a prioritized schedule for maintenance, rehabilitation, replacement, and installation of new assets, along with a list of known infrastructure repairs, deferred maintenance needs, and a 20-year forecast of implementation costs. It must also include a financial strategy comparing projected costs to available funding sources to ensure sustained asset management and service performance.

The Storm Drain Master Plan intends to assist the City in meeting the requirements of the Long-term Asset Operation and Improvement Plan.

2.2.2 Trash Capture

In 2015, the SWRCB adopted statewide Trash Provisions to address the pervasive impacts trash has on the beneficial uses of the state's surface waters. The provisions prohibit the deposition of trash where it may be discharged into waters of the State and apply to all municipal separate storm sewer system (MS4), industrial, and construction NPDES permittees.

As a permittee under the current Phase II MS4 Permit, the City of Crescent City is subject to the provisions. On June 1, 2017, State Water Resources Control Board Executive Director sent 13383 Orders to traditional and non-traditional Small MS4 permittees informing them of the Trash Provisions. However, a review of the letters in the State Water Board's Stormwater Multiple Application and Report Tracking System (SMARTS) does not show a record of a letter having been sent to the City. As such, it is not known if the City was officially notified of their requirements under the Trash Provisions.

The Trash Provisions specifically require that Phase II MS4 permittees implement trash controls in Priority Land Uses within their jurisdictions. Priority Land Use Areas are defined as the following:

- High Density Residential – All land uses with at least ten (10) developed dwelling units/acre.
- Industrial – Land uses where the primary activities on the developed parcels involve product manufacture, storage, or distribution (e.g., manufacturing businesses, warehouses, equipment storage lots, junkyards, wholesale businesses, distribution centers, or building material sales yards).
- Commercial – Land uses where the primary activities on the developed parcels involve the sale or transfer of goods or services to consumers (e.g., business or professional buildings, shops, restaurants, theaters, vehicle repair shops, etc.).
- Mixed Urban – Land uses where high-density residential, industrial, and/or commercial land uses predominate collectively (i.e., are intermixed).
- Public Transportation Stations – Facilities or sites where public transit agencies' vehicles load or unload passengers or goods (e.g., bus stations and stops).

An exhibit showing the City's Priority Land Uses is provided in **Attachment 1**.

Under the provisions, permittees are required to comply with the discharge prohibitions through one of two measures, defined in the provisions as Tracks:

- Track 1 – Install, operate, and maintain full capture systems for storm drains that capture runoff from priority land use areas, or

- Track 2 – Install, operate, and maintain any combination of full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls. The discharger shall demonstrate that such combination achieves full capture system equivalency.

Institutional controls are non-structural best management practices (i.e., no structures are involved) that may include, but not be limited to, street sweeping, sidewalk trash bins, collection of the trash, anti-litter educational and outreach programs, producer take-back for packaging, and ordinances.

A full capture system is defined as a treatment control, or series of treatment controls, including, but not limited to, a multi-benefit project or a low-impact development control that traps all particles that are 5 mm or greater, and has a design treatment capacity that is either: a) of not less than the peak flow rate, Q, resulting from a one-year, one-hour, storm in the subdrainage area, or b) appropriately sized to, and designed to carry at least the same flows as, the corresponding storm drain. Typical systems used for this approach include catch basin inserts and high flow capacity inline pipe systems such as proprietary hydrodynamic separators. Because these devices often contain a series of weirs and screens to direct and treat stormwater flows, the devices can often have a significant hydraulic impact on the storm drain system in which they are installed.

3. Equity Analysis

Understanding the locations of and impacts to disadvantaged populations and communities with equity concerns is an important aspect of city planning in general and is necessary to be in alignment with the ultimate goal of supporting communities to not only survive, but to thrive. This Equity Analysis applied data analysis and geospatial mapping tools to public data to provide a contextual presentation of disadvantaged[1] populations and communities with equity concerns, including physical and socioeconomic vulnerabilities.

The equity analysis finds that Crescent City is disadvantaged under both California state definitions (AB 1550 and Water Code 79505.5) and federal Justice40 and Inflation Reduction Act criteria, at both the citywide level and across all census block groups intersecting the city. Using a demographic index derived from American Community Survey and EPA EJScreen data, including income, race and ethnicity, age, education, and life expectancy, the analysis shows that socioeconomic vulnerability in Crescent City is higher than the California average. Citywide conditions include lower median household income, higher poverty and unemployment rates, a high proportion of renter-occupied housing, and elevated disability rates. NOAA Fisheries' Community Social Vulnerability Index further identifies high vulnerability related to poverty, labor force structure, housing burden, and personal disruption, reinforcing the conclusion that the community experiences overlapping social and economic stressors.

At the census block group level, the analysis provides additional refinement to distinguish relative levels of vulnerability within the city, even though all block groups qualify as disadvantaged for funding eligibility. Block Group 060150001012 ranks highest in potential socioeconomic vulnerability based on the demographic index and cumulative scoring, reflecting concentrated poverty, housing burden, and related stressors, while other block groups exhibit progressively lower, though still elevated, levels of vulnerability relative to the state mean. Environmental exposure indicators such as underground storage tanks and traffic proximity are generally low compared to state and national averages, but flood risk and coastal hazards remain important considerations given the city's location. Overall, the findings are intended to inform equitable prioritization of storm drain improvement projects so that infrastructure investments and benefits are directed toward areas and populations with the greatest combined social and economic vulnerability.

The cumulative equity scores are applied to each drainage project in the GIS dataset and the complete equity analysis technical memorandum with maps is provided in **Appendix B**.

[1] Disadvantaged as defined in accordance with Final Designation of Disadvantaged Communities Pursuant to Senate Bill 535. May 2022. ***Final Designation of Disadvantaged Communities Pursuant to SB535, 2022 (ca.gov)**. Accessed 3/26/2024. More information: **Low-Income or Disadvantaged Communities Designated by California - Dataset - California Natural Resources Agency Open Data**. Accessed 3/26/2024.

4. Data Collection Field Surveys

Data Collection → Model → Analysis → Project → Priority → Phase

Data collection was performed to develop a full inventory of the City's storm drain infrastructure and to support the H&H analysis used for Storm Drain Master Plan and CIP development. Efforts included verification of watershed and sub-watershed boundaries, surface flow routing, and expansion and conformance of the digital elevation model (DEM) to adequately capture contributing drainage areas. Using PCSWMM watershed delineation outputs, hydrologists field-verified flow directions, boundaries, and areas of permissible flooding, with data prioritized in lower-elevation and higher-energy portions of the system where model sensitivity is greatest. Concurrent field investigations documented existing drainage infrastructure, including detailed condition assessments and elevation data for junctions, conduits, and outfalls using GPS-based surveying and standardized field forms. Background studies, historical as-built records, permit information, and known flood incident reports were reviewed and incorporated to validate field data and refine model assumptions. Collected and processed field data were integrated into the PCSWMM model to represent existing conditions, calibrate hydraulic parameters, and establish a basis for identifying deficiencies and evaluating CIP alternatives. Additional details on data requirements, review of available data, and field surveys of existing drainage infrastructure are provided in **Appendix C**.

5. Computational Model Development

Data Collection → ***Model*** → Analysis → Project → Priority → Phase

The City's stormwater system performance was evaluated using a H&H model developed in PCSWMM. The model integrates field-collected storm drain infrastructure data, high-resolution topographic information, and watershed delineation to represent existing drainage conditions throughout the City. Design storms corresponding to the 2-, 10-, and 50-year, 24-hour return periods were applied using NOAA Atlas 14 precipitation data, with downstream boundary conditions defined for both tidally influenced and non-tidal outfalls. The model simulates dual drainage behavior by representing both the underground pipe network and surface conveyance pathways and applies one-dimensional and two-dimensional analyses to quantify the location, depth, duration, and extent of flooding. The resulting model outputs form the basis for identifying drainage deficiencies and evaluating the effectiveness of proposed improvements. Additional details on model development, assumptions, and parameterization are provided in **Appendix D**.

6. Drainage Deficiency Analysis of Existing Conditions

Data Collection → Model → ***Analysis*** → Project → Priority → Phase

6.1 Overview of Flooding

To assess the drainage performance of the existing drainage network (Base Conditions), the hydraulic performance was assessed through a hydrologic analysis utilizing the 10-year, 24-hour design storm and 50-year, 24-hour design storm with accompanying tidal outfall conditions. See **Appendix D** for further details on the design storm selection and

for tidal outfall conditions analysis. The 1-dimensional analysis was developed to assess the points of drainage failure, for example an overflowing drainage inlet. The 2-dimensional analysis was developed to assess the extent, depth and duration of flooding throughout the City. The modeled extent, depth and duration of flooding under a 10-year, 24-hour design storm within City boundaries is presented below in **Figure 6.1**. The modeled extent, depth and duration of flooding under a 50-year, 24-hour design storm within City boundaries is presented below in **Figure 6.2**.

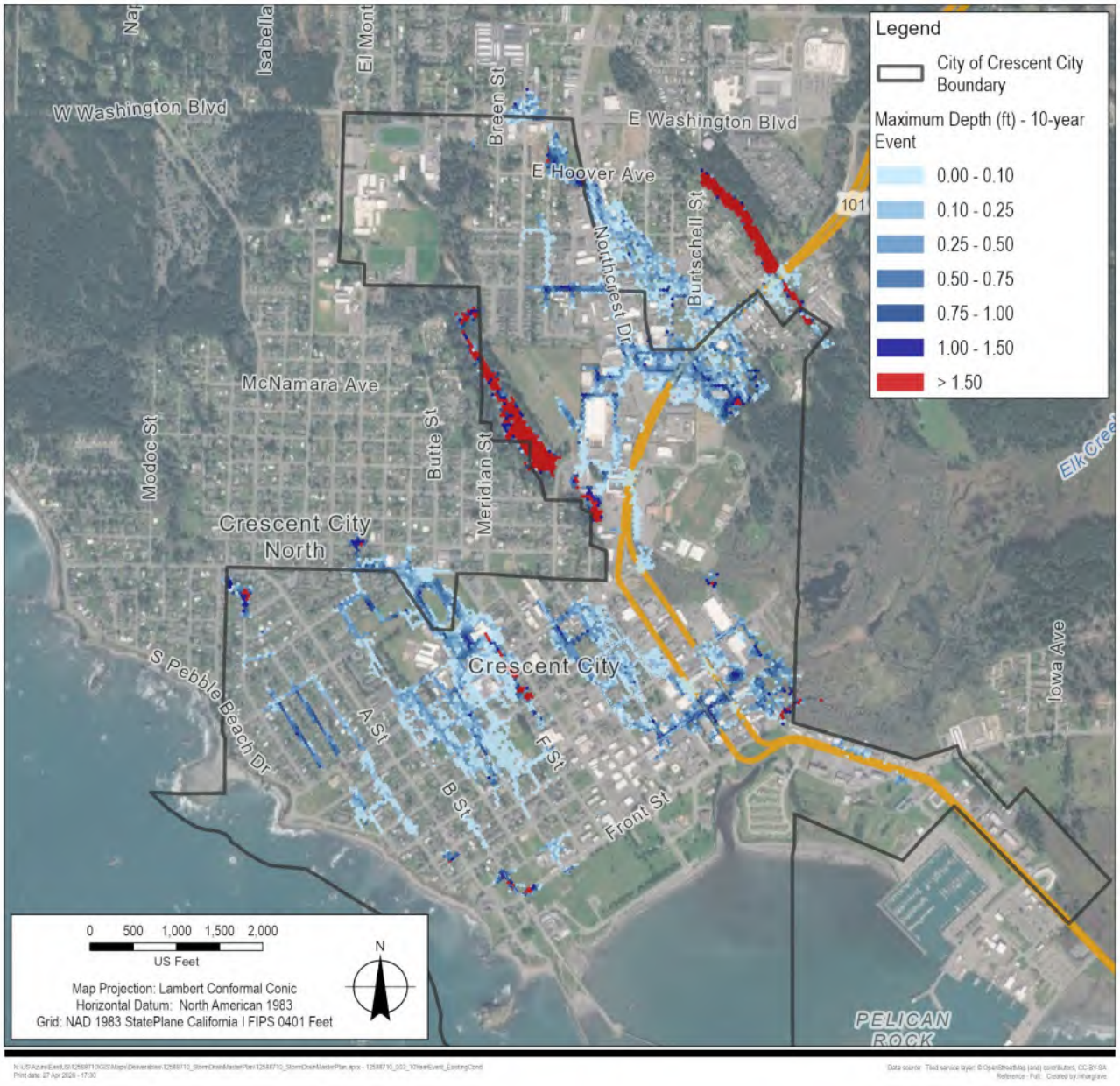


Figure 6.1 Flooding Extent and Depth under Existing Condition – 10-year, 24-hour SCS Type 1A Storm

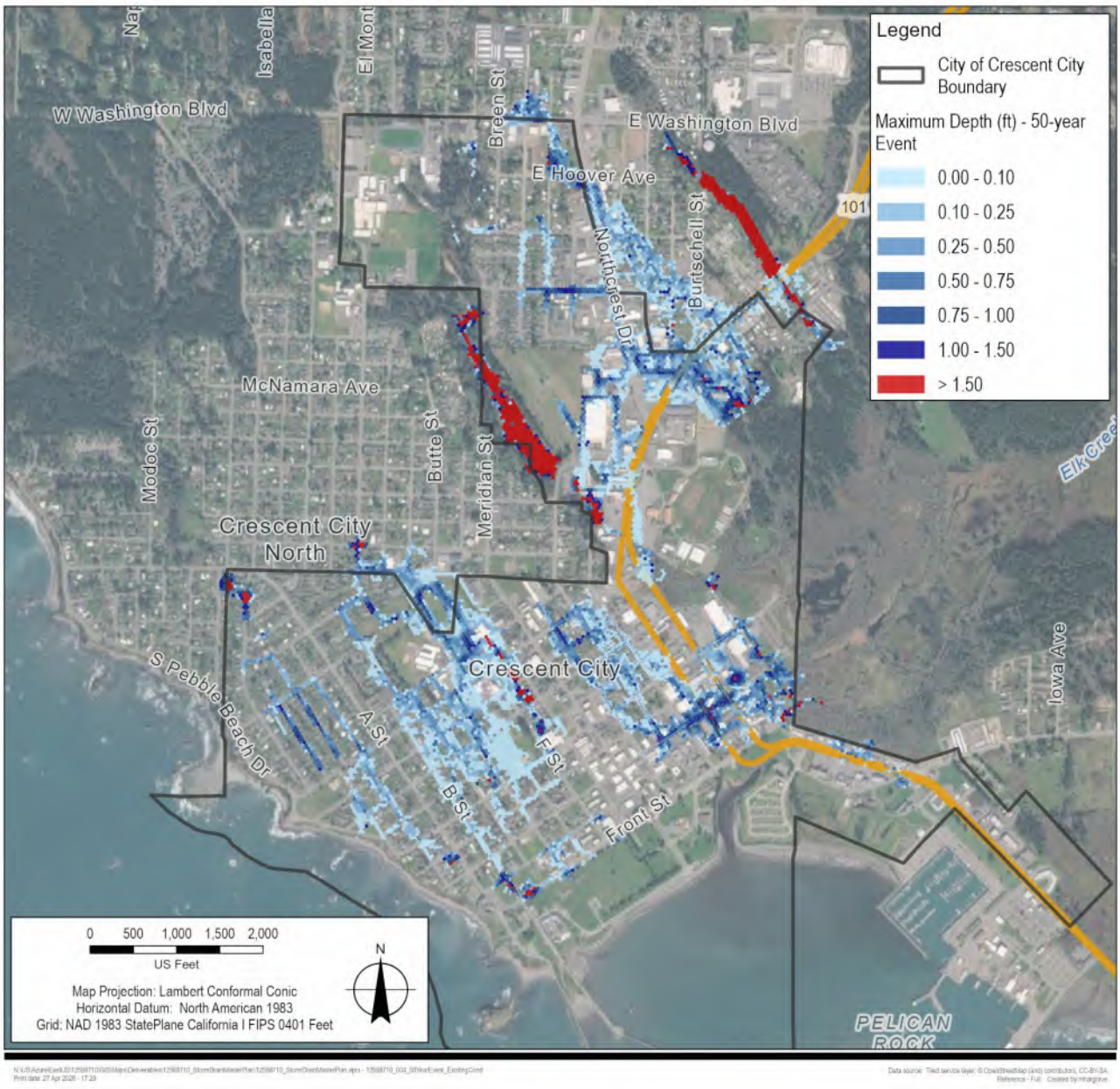


Figure 6.2 ***Flooding Extent and Depth under Existing Condition – 50-year, 24-hour SCS Type 1A Storm***

6.2 Summary of Systemwide Performance

Under a 10-year, 24-hour duration SCS Type 1A storm, the model shows that flooding in Crescent City is concentrated in low-lying coastal and near-coastal areas, major roadway corridors, and older residential/commercial neighborhoods where storm drainage capacity is limited and outfalls are tidally influenced. Recurring flooding is commonly observed at street sag points, intersections, and along collector and arterial roadways, particularly where surface flow converges upstream of constrained pipes or tidal backwater conditions.

Along Highway 101, flooding is documented in multiple drainage groups, notably near Wilson Avenue, the fairgrounds area, and where the highway transitions to divided sections, indicating sensitivity to both roadway geometry and downstream constraints. In central Crescent City west of Highway 101, systemic flooding occurs along C Street, 2nd Street, 3rd Street, 4th Street, 5th Street, F Street, J Street, and L Street, with repeated impacts at intersections such

as 2nd & B, 3rd & J, 5th & F, 4th & J, and 8th & F, reflecting cumulative effects of flat topography and dense drainage networks.

Southern and southwestern residential areas experience localized flooding along Gary Street, Gainard Street, Condor Street, and W 9th Street, while additional coastal flooding affects areas near W 5th Street, Taylor Street, Wendell Street, and W 4th Street, where outfall performance is directly influenced by tidal conditions. Several drainage groups indicate that debris-restricted or poorly performing outfalls (particularly along the coast and near Lighthouse Way) can reroute flows into adjacent drainage systems, exacerbating flooding on nearby streets such as 2nd Street despite minimal flooding within the contributing drainage group itself.

Overall, flooding patterns consistently align with tidally influenced outfalls, undersized or aging pipe infrastructure, flat coastal topography, and roadway sag locations, with impacts concentrated in public rights-of-way but occasionally extending into adjacent parking lots, parks, and low-lying private properties.

6.3 Summary of Flooding by Drainage Group

To group the specific drainage deficiencies, the City's drainage infrastructure was first divided into ten drainage groups based on the downstream outfalls the infrastructure drains to. After the drainage groups were established, all grate inlets, culvert inlets, and manholes with flooding in the model were further investigated to determine the potential cause of flooding. The cause of the deficiencies was used to inform the development of CIPs in **Section 7**. A key map of the drainage groups is presented in **Figure 6.3**.

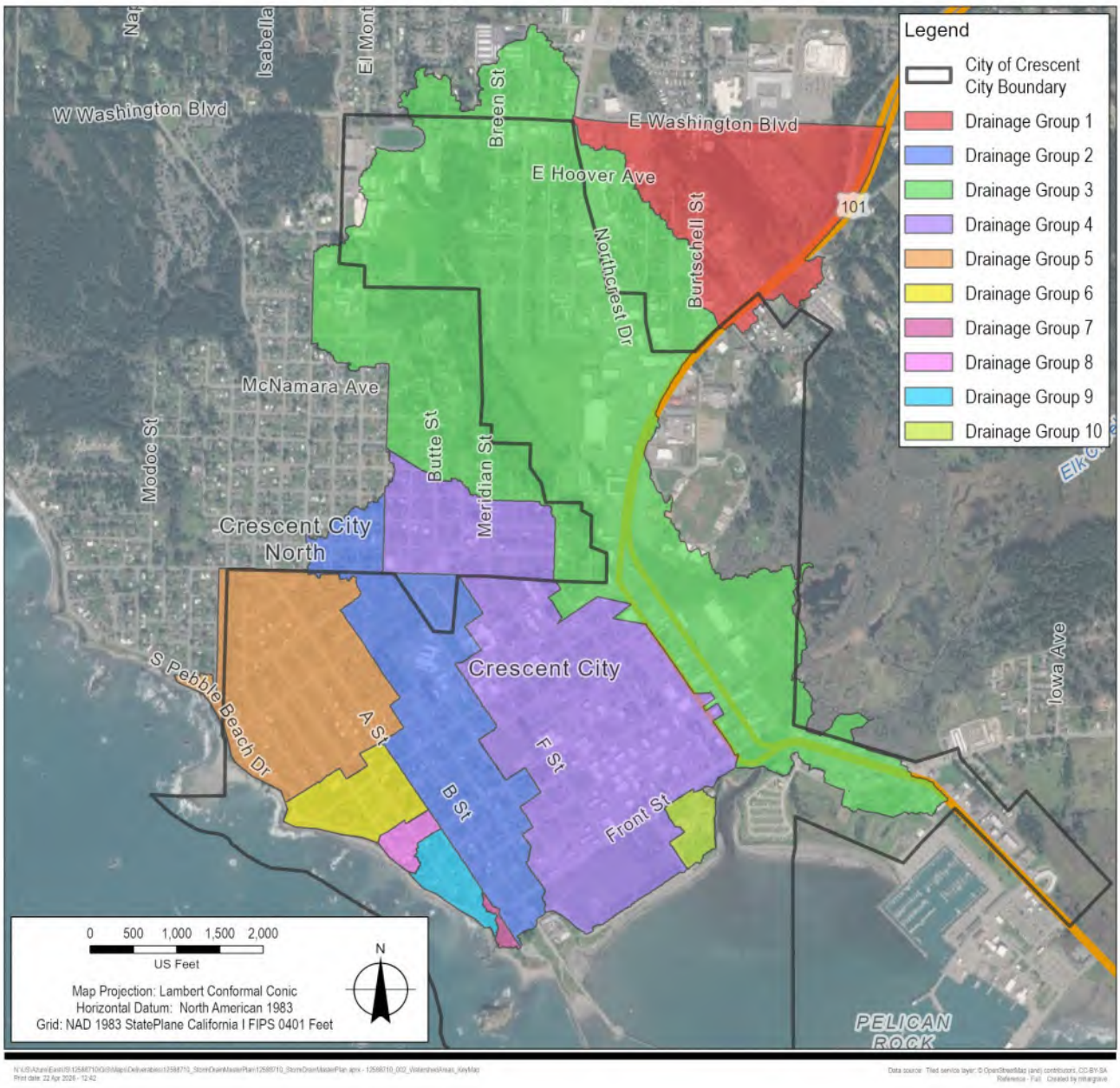


Figure 6.3 ***Key Map of Drainage Groups – Existing Conditions***

6.3.1 Drainage Group 1

Drainage Group 1 collects stormwater from Highway 101 and a few residential areas west of Highway 101. The stormwater is discharged into a tributary of Elk Creek at normal depth. Under the simulated 10-year storm and tidal event, flooding occurs on the southbound side of Highway 101. **Figure 6.4** presents a map of the storm drain system, subcatchments, and junctions with flooding within Drainage Group 1 under the simulated 10-year storm and tidal event. **Table 6.1** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 1. **Table 6.2** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 1.

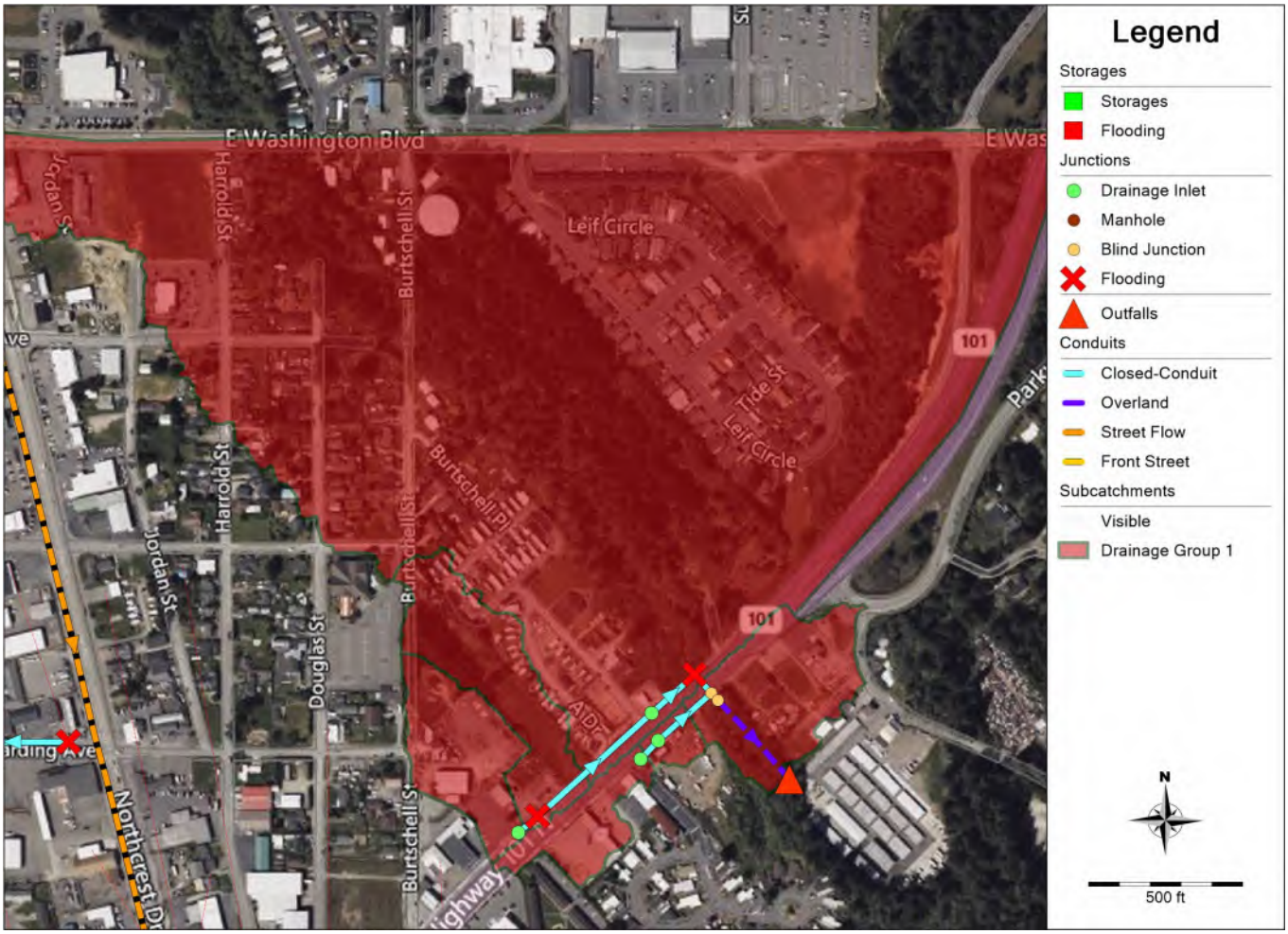


Figure 6.4 Flooding Location(s) within Drainage Group 1 for the 10-year Storm and Tidal Event.

Table 6.1 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 1

Material	Diameter (ft)	Linear Feet (ft)
Concrete	1	843.75
Concrete	1.5	230.04
HDPE	1.5	81.51

Table 6.2 Existing Number of Drainage Inlets and Manholes within Drainage Group 1

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	6	9.80	96.51	22.75	22.88
MH	0	-	-	-	-

6.3.2 Drainage Group 2

Drainage Group 2 collects stormwater from few residential areas approximately located between A Street, E Street, and Pacific Avenue. It also collects stormwater from Jon Hamilton Elementary School and parts of Crescent Elk

Elementary School including the athletic field. The stormwater is discharged at an outfall along the beach near B Street Pier and into Crescent Harbor at a tidal depth. Most storm drains are located within the right-of-way, but one storm drain between 6th Street and 5th Street is routed under private property along B Street. Under the simulated 10-year storm and tidal event, flooding occurs all along the eastern tributary of the storm drain system as far upstream as Pacific Avenue. Some flooding also occurs at the intersection of 2nd Street and B Street. **Figure 6.5** presents a map of the storm drain system, subcatchments, and junctions with flooding within Drainage Group 2 under the simulated 10-year storm and tidal event. **Table 6.3** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 2. **Table 6.4** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 2.

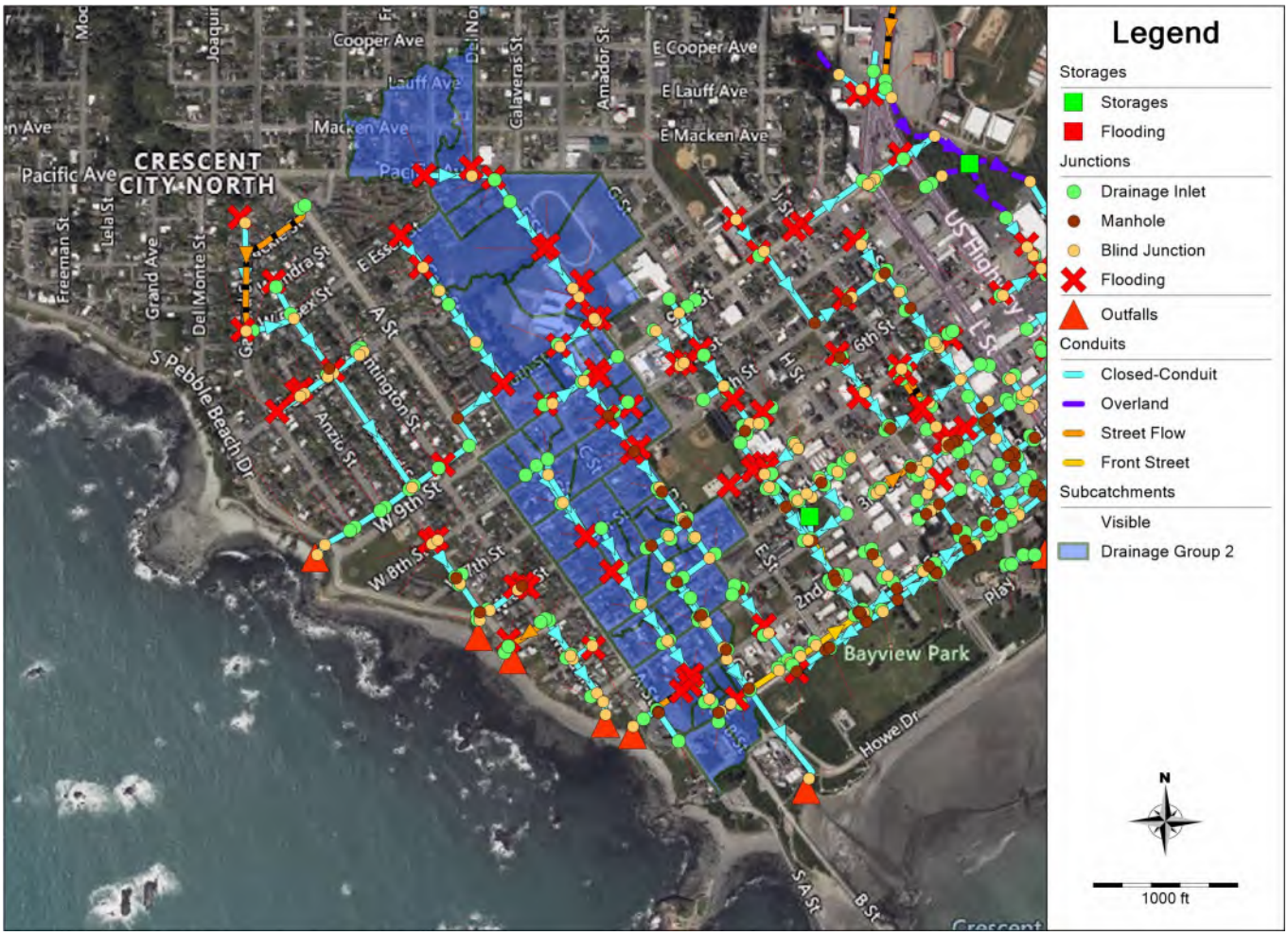


Figure 6.5 *Flooding Location(s) within Drainage Group 2 for the 10-year Storm and Tidal Event*

Table 6.3 *Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 2*

Material	Diameter (ft)	Linear Feet (ft)
Concrete	0.5	13.60
Concrete	0.67	15.71
Concrete	0.75	75.42
Concrete	0.83	108.19
Concrete	1	4710.84
HDPE	1	441.98

Material	Diameter (ft)	Linear Feet (ft)
Concrete	1.25	745.48
HDPE	1.25	52.01
HDPE	1.3	39.06
Concrete	1.5	80.52
HDPE	1.5	58.26
HDPE	2	553.94
Concrete	2	3764.68
Concrete	3	1225.22
HDPE	4	10.62
Concrete	4	783.52

Table 6.4 Quantities of Junctions and Flooding Results within Drainage Group 2 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	69	6.70	14.67	22.62	23.65
MH	11	-	-	-	22.61

6.3.3 Drainage Group 3

Drainage Group 3 collects stormwater from the streets, commercial areas, and industrial areas along Highway 101 south of Drainage Group 1. It also collects stormwater from the Del Norte County Veterans Cemetery and residential areas north and west of the cemetery. The stormwater is discharged at an outfall into Elk Creek between the crossing of Highway 101 southbound and Elk Creek's mouth into Crescent Bay. Most storm drains are located within the right-of-way, but some storm drains are routed under residential private property and commercial parking lots. Furthermore much of the stormwater northwest of Highway 101 is routed into a network of natural channels and storages. Under the simulated 10-year storm and tidal event, flooding occurs along Highway 101 near its intersection with Wilson Avenue, near the Del Norte County Fairgrounds, and in the commercial area where Highway 101 splits into a divided highway. **Figure 6.6** presents a map of the storm drain system, subcatchments, and junctions with flooding within Drainage Group 3 under the simulated 10-year storm and tidal event. **Table 6.5** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 3. **Table 6.6** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 3.

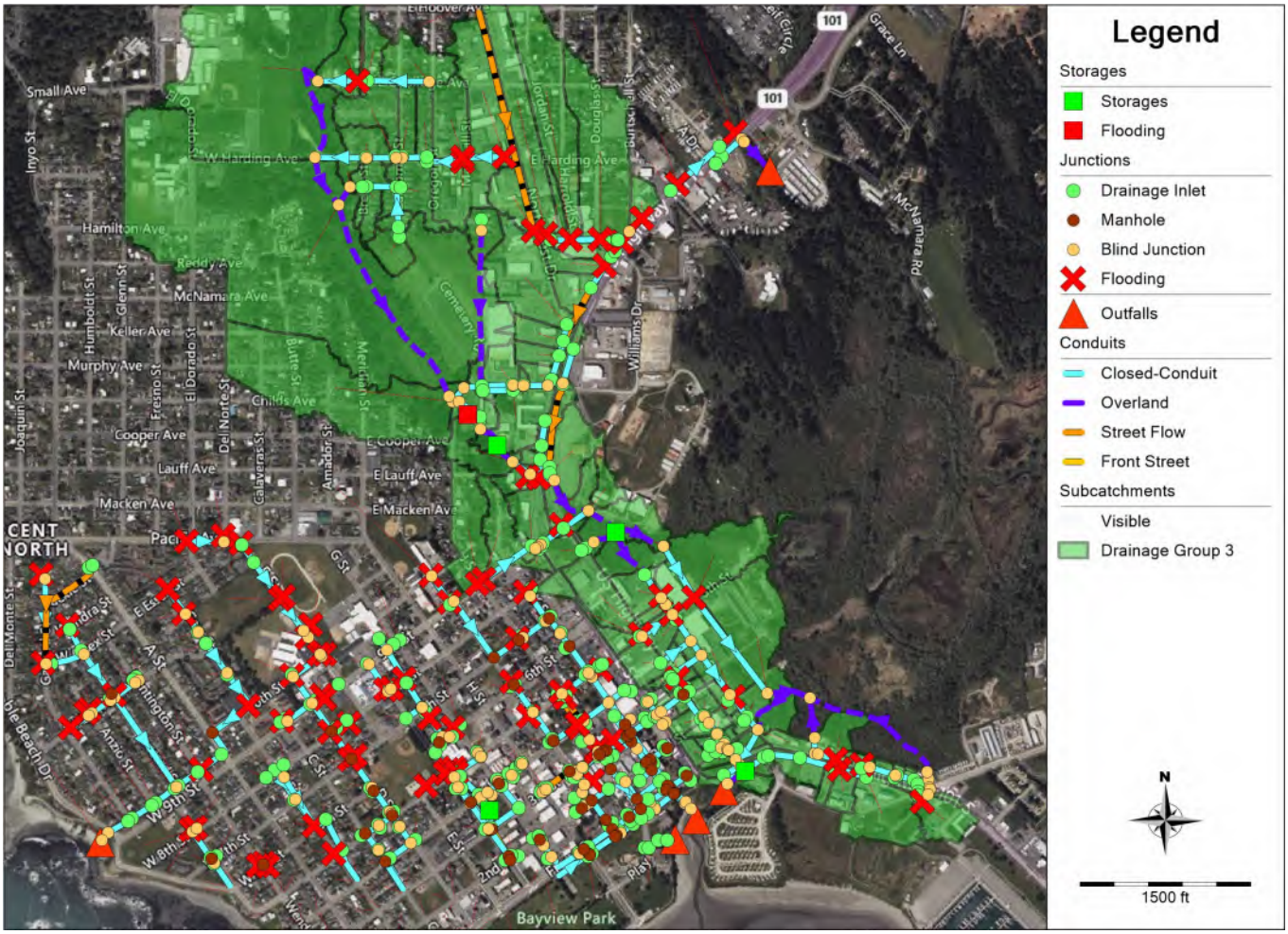


Figure 6.6 *Flooding Location(s) within Drainage Group 3 for the 10-year Storm and Tidal Event*

Table 6.5 *Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 3*

Material	Diameter (ft)	Linear Feet (ft)
PVC	0.5	95.54
PVC	0.67	598.80
CMP	0.75	40.75
PVC	0.75	26.80
Concrete	1	6043.95
PVC	1	22.35
HDPE	1.2	20.77
Concrete	1.25	1652.55
HDPE	1.25	124.52
CMP	1.5	180.65
Concrete	1.5	6511.89
HDPE	1.5	139.53
Concrete	2	1901.31

Material	Diameter (ft)	Linear Feet (ft)
Concrete	2.25	195.49
Concrete	2.5	1722.75
Concrete	2.75	225.64
Concrete	3	1176.30
Concrete	4	82.12
Concrete	6	547.50

Table 6.6 Quantities of Junctions and Flooding Results within Drainage Group 3 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	129	17.58	19.43	23.18	23.56
MH	1	-	-	-	-

6.3.4 Drainage Group 4

Drainage Group 4 collects stormwater from the streets, residential areas, and commercial areas west of Highway 101 in between Drainage Group 2 and 3 in the heart of Crescent City. It also collects stormwater from Bayview Park and the residential area north of Pacific Avenue. The stormwater is discharged at an outfall into Elk Creek between the crossing of Highway 101 southbound and Elk Creek's mouth into Crescent Bay, downstream of the outfall for Drainage Group 3. Most storm drains are located within the right-of-way, but some storm drains are routed under residential and commercial private property. Under the simulated 10-year storm and tidal event, flooding occurs at the intersection of 5th Street and F Street, 8th Street and F Street, 5th Street and J Street, and 4th Street and J Street. Flooding also occurs near Highway 101 southbound. **Figure 6.7** presents a map of the storm drain system, subcatchments, and junctions with flooding within Drainage Group 4 under the simulated 10-year storm and tidal event. **Table 6.7** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 4. **Table 6.8** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 4.



Figure 6.7 Flooding Location(s) within Drainage Group 4 for the 10-year Storm and Tidal Event

Table 6.7 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 4

Material	Diameter (ft)	Linear Feet (ft)
Concrete	0.25	19.18
PVC	0.5	9.84
Concrete	0.67	33.40
HDPE	0.67	23.12
PVC	0.67	81.72
Concrete	0.75	173.83
HDPE	0.8	198.80
Concrete	0.83	107.72
CMP	1	111.04
Concrete	1	6808.71
HDPE	1	365.39
PVC	1	374.95
CMP	1.2	24.16

Material	Diameter (ft)	Linear Feet (ft)
CMP	1.25	619.48
Concrete	1.25	1361.27
HDPE	1.25	290.42
Concrete	1.33	210.18
HDPE	1.33	69.78
HDPE	1.4	94.86
CMP	1.5	460.13
Concrete	1.5	3279.52
HDPE	1.5	165.23
PVC	1.5	250.24
Concrete	1.6	29.09
CMP	1.83	375.73
Concrete	1.83	241.25
CMP	2	43.41
Concrete	2	4464.49
HDPE	2	367.84
Concrete	2.5	844.95
HDPE	2.5	25.79
Concrete	2.67	193.30
CMP	3	956.35
Concrete	3	2628.42
HDPE	3	886.92
Concrete	4	1339.90
PVC	4	125.60
Concrete	4.5	33.79
HDPE	4.5	9.01
Concrete	5	5.69
Concrete	6	8.95
CMP	8	14.26

Table 6.8 Quantities of Junctions and Flooding Results within Drainage Group 4 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	168	11.27	42.90	23.19	23.56
MH	59	0.02	2.02	0.41	23.46

6.3.5 Drainage Group 5

Drainage Group 5 collects stormwater from the streets and residential areas between 9th Street, Pacific Avenue, Gary Street, and S Pebble Beach Drive. The stormwater is discharged at an outfall into the Pacific Ocean south of Preston Island. The upstream storm drains are located within the right-of-way, and the downstream storm drains along W 9th Avenue are routed under residential private property. Under the simulated 10-year storm and tidal event, flooding occurs along W Condor Street, Gainard Street, and Gary Street. **Figure 6.8** presents a map of the storm drain system, subcatchments, and junctions with flooding within Drainage Group 5 under the simulated 10-year storm and tidal event. **Table 6.9** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 5. **Table 6.10** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 5.

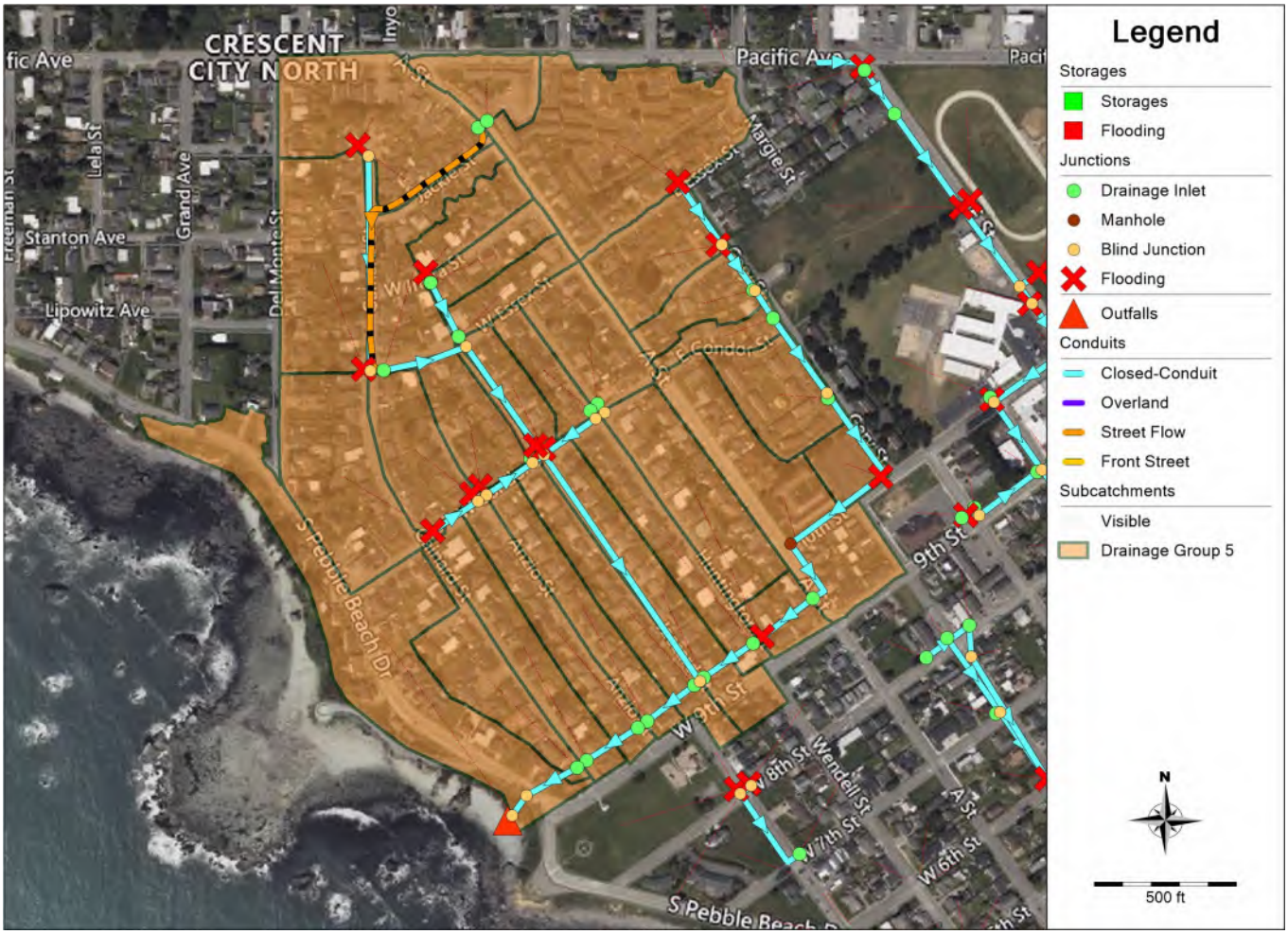


Figure 6.8 Flooding Location(s) within Drainage Group 5 for the 10-year Storm and Tidal Event

Table 6.9 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 5

Material	Diameter (ft)	Linear Feet (ft)
Concrete	0.67	38.19
Concrete	1	1897.02
CMP	1.5	211.23
Concrete	1.5	1692.37

Material	Diameter (ft)	Linear Feet (ft)
Concrete	2	2387.69
Concrete	3	269.18
Concrete	3.5	210.83
Concrete	4	325.92

Table 6.10 Quantities of Junctions and Flooding Results within Drainage Group 5 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	30	1.79	11.43	15.67	23.13
MH	2	0.02	1.82	0.68	17.85

6.3.6 Drainage Group 6

Drainage Group 6 collects stormwater from the streets and residential areas between W 9th Street, W 6th Street, A Street, and S Pebble Beach Drive. It also collects stormwater from Brother Jonathan Park and Cemetery. The stormwater is discharged at an outfall into the Pacific Ocean south of the parking area for Brother Jonathan Cemetery. The storm drains are all located within the right-of-way. Under the simulated 10-year storm and tidal event, flooding occurs at the intersection of W 8th Street and Taylor Street. **Figure 6.9** presents a map of the storm drain system, subcatchments, and junctions with flooding within Drainage Group 6 under the simulated 10-year storm and tidal event. **Table 6.11** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 6. **Table 6.12** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 6.



Figure 6.9 *Flooding Location(s) within Drainage Group 6 for the 10-year Storm and Tidal Event*

Table 6.11 *Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 6*

Material	Diameter (ft)	Linear Feet (ft)
Concrete	0.5	26.26
Concrete	0.75	42.73
HDPE	0.75	53.17
Concrete	1	723.52
HDPE	1.25	47.90
Concrete	1.5	11.51
Concrete	2	238.92
Concrete	2.5	62.98
Concrete	3	37.80
CMP	4	111.00

Table 6.12 Quantities of Junctions and Flooding Results within Drainage Group 6 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	11	0.20	5.93	2.34	2.34
MH	3	-	-	-	0.61

6.3.7 Drainage Group 7

Drainage Group 7 collects stormwater from the Lighthouse Way and the Oceanfront Lodge. The stormwater is intended to be discharged at an outfall into the Pacific Ocean near the Oceanfront Lodge, however, the storm drain along between A Street and the outfall is clogged with sediment and debris. The stormwater flows out into 2nd Street and into the storm drain system in Drainage Group 2. Under the simulated 10-year storm and tidal event, no flooding occurs within the drainage group, however, the accumulated sediment and debris to the outfall causes flooding along 2nd Street in Drainage Group 2. **Figure 6.10** presents a map of the storm drain system, subcatchments, and junctions within Drainage Group 7 under the simulated 10-year storm and tidal event. **Table 6.13** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 7. **Table 6.14** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 7.

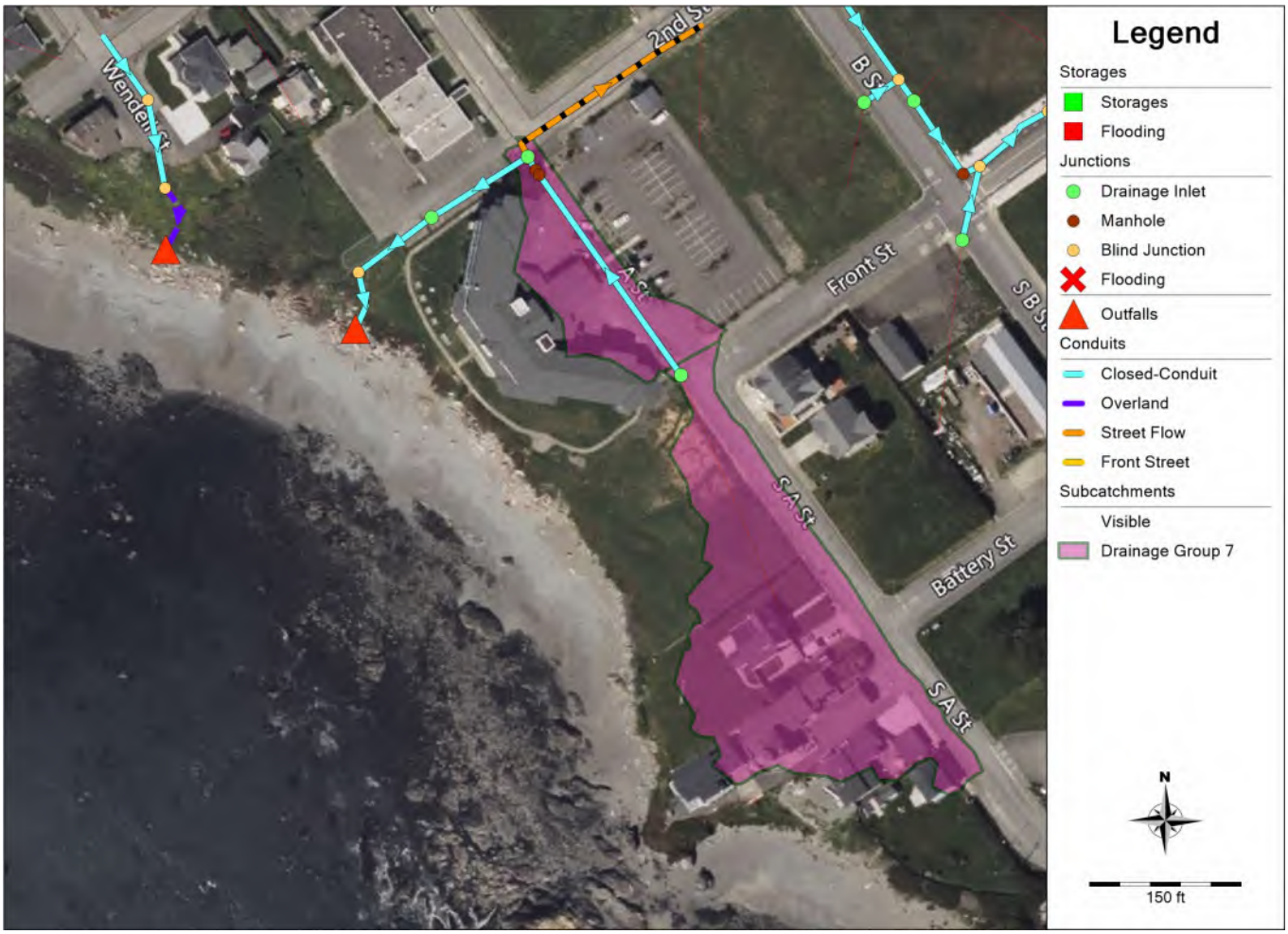


Figure 6.10 Flooding Location(s) within Drainage Group 7 for the 10-year storm and tidal event.

Table 6.13 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 7

Material	Diameter (ft)	Linear Feet (ft)
CMP	1.5	14.96
Concrete	1.5	6.05
HDPE	1.5	239.22
Concrete	2	258.82

Table 6.14 Quantities of Junctions and Flooding Results within Drainage Group 7 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	3	-	-	-	-
MH	2	-	-	-	22.95

6.3.8 Drainage Group 8

Drainage Group 8 collects stormwater between W 6th Street, W 5th Street, Taylor Street, and A Street. The stormwater is discharged at an outfall into the Pacific Ocean near the transition of W 5th Street into Taylor Street. Under the simulated 10-year storm and tidal event, flooding occurs at the intersection of Wendell Street and W 5th Street and at the transition W 5th Street into Taylor Street. **Figure 6.11** presents a map of the storm drain system, subcatchments, and junctions within Drainage Group 8 under the simulated 10-year storm and tidal event. **Table 6.15** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 8. **Table 6.16** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 8.

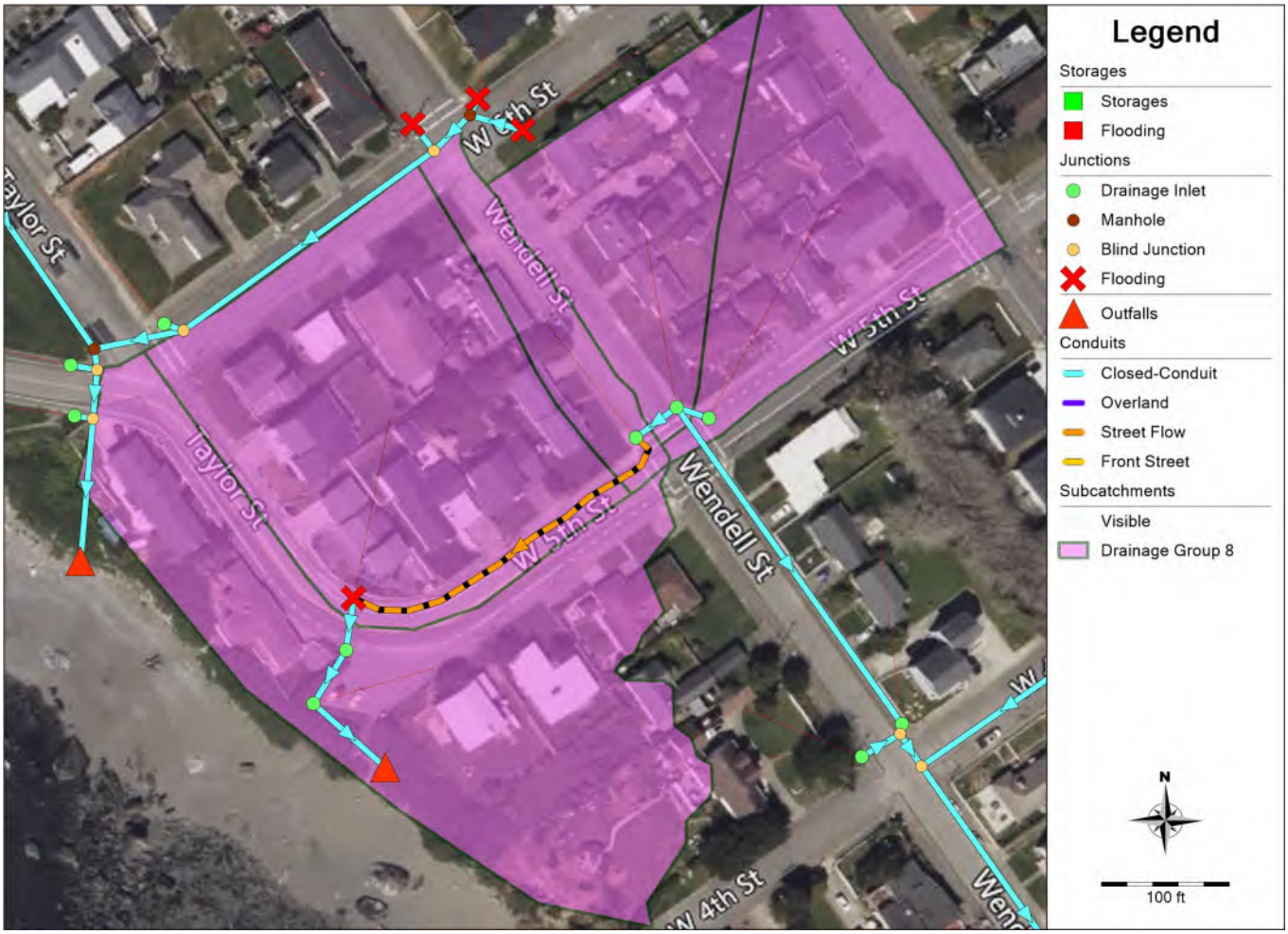


Figure 6.11 Flooding Location(s) within Drainage Group 8 for the 10-year storm and tidal event.

Table 6.15 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 8

Material	Diameter (ft)	Linear Feet (ft)
Concrete	1	65.70
Concrete	1.5	89.23
Concrete	2	74.55

Table 6.16 Quantities of Junctions and Flooding Results within Drainage Group 8 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	6	0.02	1.43	0.71	3.98
MH	0	-	-	-	-

6.3.9 Drainage Group 9

Drainage Group 9 collects stormwater between W 5th Street, 2nd Street, and A Street up to the coast. The stormwater is discharged at an outfall into the Pacific Ocean near the south end of Wendell Street. Under the simulated 10-year

storm and tidal event, flooding occurs on W 4th Street in between Wendell Street and A Street. **Figure 6.12** presents a map of the storm drain system, subcatchments, and junctions within Drainage Group 9 under the simulated 10-year storm and tidal event. **Table 6.17** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 9. **Table 6.18** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 9.

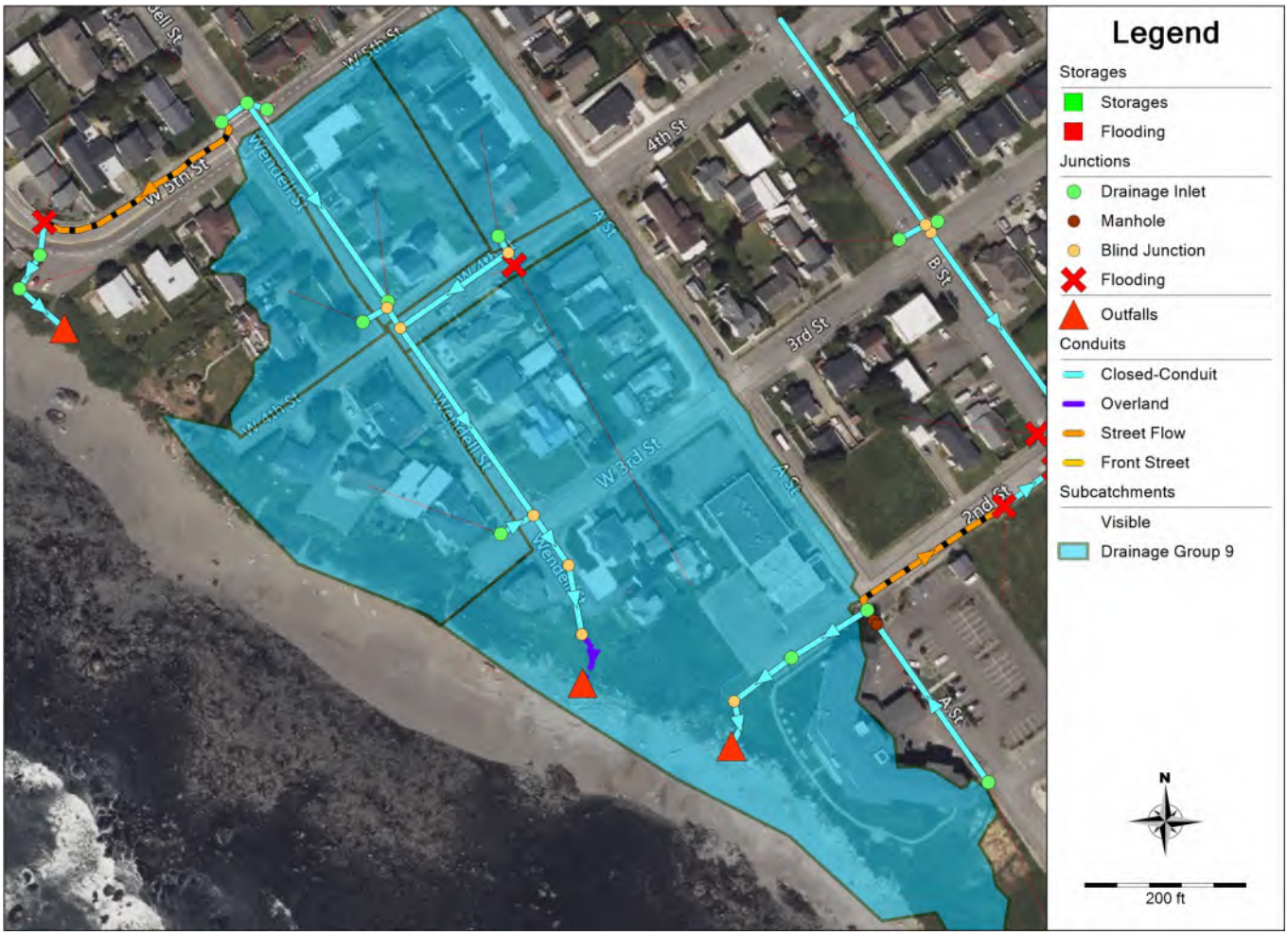


Figure 6.12 Flooding Location(s) within Drainage Group 9 for the 10-year storm and tidal event.

Table 6.17 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 9

Material	Diameter (ft)	Linear Feet (ft)
CMP	1	301.29
Concrete	1	63.95
Concrete	1.5	682.99
PVC	1.5	24.04

Table 6.18 Quantities of Junctions and Flooding Results within Drainage Group 9 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	5	0.09	7.12	0.82	0.82

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
MH	0	-	-	-	-

6.3.10 Drainage Group 10

Drainage Group 10 collects stormwater from Beachfront Park, Play Street, and Howe Street. The stormwater is discharged at an outfall into Elk Creek between the crossing of Highway 101 southbound and Elk Creek's mouth into Crescent Bay, downstream of the outfall for Drainage Group 4. Under the simulated 10-year storm and tidal event, no flooding occurs. **Figure 6.13** presents a map of the storm drain system, subcatchments, and junctions within Drainage Group 10 under the simulated 10-year storm and tidal event. **Table 6.19** provides the lengths of existing storm drain pipes by material and nominal diameter within Drainage Group 10. **Table 6.20** provides the quantities of drainage inlets and manholes as well as flood volume and duration within Drainage Group 10.



Figure 6.13 Flooding Location(s) within Drainage Group 10 for the 10-year storm and tidal event.

Table 6.19 Existing Pipe Network by Material, Diameter, and Linear Feet within Drainage Group 10

Material	Diameter (ft)	Linear Feet (ft)
HDPE	1.5	39.72

Material	Diameter (ft)	Linear Feet (ft)
Concrete	1.75	103.99
Concrete	2	150.89

Table 6.20 Quantities of Junctions and Flooding Results within Drainage Group 10 for the 10-year Storm and Tidal Event

Type	Number	Total flooded volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Maximum Duration of Surcharge (hrs)
DI	4	-	-	-	-
MH	0	-	-	-	-

6.4 Deficiency Analysis

Utilizing the results from the Base Conditions 1D and 2D Models, a drainage deficiency analysis was conducted to identify drainage deficiencies and provide an idealized solution that mitigates flooding. This subsection details the deficiency analysis approach and the development of the idealized solution.

6.4.1 Approach

The approach of the drainage deficiency analysis was to first identify capacity-limited segments within the drainage system. Capacity-limited segments were identified by flooding at nodes for any duration greater than 5-minutes. Capacity-limiting segments within the drainage system were then iteratively modified starting upstream and working downstream until the minimum conveyance passage was identified to relieve flooding. By starting upstream and working downstream, instances of flooding caused by an upstream project were addressed and grouped together as a project. **Section 7** includes more details of how potential projects were identified and grouped together.

6.4.2 Idealized Solution and Limitations

After insufficient drainage infrastructure was identified in the deficiency analysis, the idealized solution was developed to provide volumetric conveyance requirements to mitigate site flooding under the 10-year, 24-hour SCS Type 1A design storm. The idealized solution has limitations that should be further developed in the design phase of the projects, including but not limited to, minimum buried depth requirements, surface load requirements and pipe material, best engineering practices in upsizing downstream pipe diameters, potential areas for supplemental drainage detention basins, etc. Though the ideal drainage project resolves the flooding, it may not conform to best practices for upgrading the downstream pipe segments to either conform or increase in diameter. During project implementation, consideration of downstream pipe conveyance should be considered as needed to conform to best practices. These considerations factor into project prioritization and phasing (**Section 8** & **Section 9**). In the design phase, flooding in areas with low consequences may be determined to be permissible. If any proposed project components deviate from the components recommended in their respective CIP during the design development phase, the PCSWMM model should be updated with the revised project components and re-simulated to verify unintended flooding does not occur.

7. Development of Potential Capital Improvement Projects (CIP)

Data Collection → Model → Analysis → ***Project*** → Priority → Phase

7.1 Approach to CIP Development

Potential CIP Projects were identified using the drainage deficiency analysis and initially sized with the idealized solution, discussed in detail in Section 6.4. The idealized solution identifies individual specific improvements that would resolve the system deficiencies. The development of a CIP Project involves grouping several individual specific drainage improvements that are related to resolving flooding in a specific area. The types are discussed in Section 7.2. The CIP Projects are organized by drainage group and are sequenced so that resolving one flooding condition does not create a downstream capacity problem. The sequencing process is further discussed in Section 7.4. In general, CIPs are focused on resolving flooding within a drainage group; however, several CIPs are dependent on the improved drainage of other CIPs and are part of an overall strategy of minimizing flooding City wide. As an example, Outfall 5 has capacity for higher flows and improvements in Drainage Group 5 are structured to intercept runoff from other impacted drainage groups (2 and 5). The sequencing of CIPs is further discussed in Section 9.

7.2 Types of Drainage Improvements Considered

Based on the drainage deficiency analysis and hydrologic and hydraulic modeling results, a range of stormwater system improvement strategies were evaluated to reduce the extent, depth, and duration of flooding under the design storm conditions. The evaluated strategies focus on addressing capacity limitations, improving surface runoff capture, relieving overland flow constraints, enhancing outfall performance (particularly in tidally influenced areas), and incorporating detention where feasible to attenuate peak flows. Improvement concepts were developed at both localized and system scales and were assessed individually and in combination to understand their effectiveness in mitigating identified deficiencies. These strategies informed the development of CIPs and were refined through iterative modeling to ensure proposed measures provide measurable flood reduction benefits. The types of improvement strategies considered include:

1. **Conveyance Upgrades**: Upsizing or replacing undersized storm drain pipes and culverts to improve hydraulic capacity and reduce upstream surcharge and surface flooding.
2. **Inlet Enhancements**: Installation of new drainage inlets, replacement or expansion of existing inlets, and improved inlet spacing to increase surface runoff capture efficiency and reduce street ponding.
3. **Surface Flow Relief**: Modifications to surface flow paths, including use of dual drainage concepts, street flow routing, and overland relief pathways to safely convey excess flow when underground capacity is exceeded.
4. **Outfall Modifications**: Improvements to existing outfalls to reduce backwater effects, improve discharge reliability under tidal conditions, and protect outfalls from debris blockage, scour, and coastal influences.
5. **Detention and Storage Opportunities**: Use of existing or new detention basins, storage areas, and other flow attenuation features to temporarily store runoff and reduce peak downstream flows.

7.3 Environmental Compliance and Permitting

A preliminary assessment of anticipated environmental review and permitting requirements for each proposed CIP was conducted to supplement the Class V cost estimate (Section 7.6) and prioritization assessment (Section 8). Each CIP was screened based on its location, proposed scope, downstream receiving waters, and potential interaction with regulatory constraints, including the Coastal Zone, FEMA-mapped floodplains, natural or undisturbed areas, wetlands, and sensitive coastal or riparian resources. Based on this screening, projects were assigned to permitting cost tiers reflecting the type and complexity of anticipated approvals, such as CEQA documentation, Coastal Development Permits (CDP), and state and federal resource agency permits (e.g., CDFW Section 1602, RWQCB Section 401, USACE Section 404, and FEMA Floodplain Development Permits). Class V cost estimates were developed using a tier-based approach based on recent permitting experience on similar municipal infrastructure projects. A table with the full assessment is included in **Appendix E**. The table documents assumptions, exclusions, and a cost by CIP and total cost by drainage group.

7.4 Potential Capital Improvement Projects

All potential CIPs are defined below and organized by its associated drainage group and recommended construction sequence within the drainage group. Drainage group number is represented as “DG#” and recommended construction sequence is represented as “.#” afterwards. The division of drainage groups are presented in greater detail in Section 6.3. To avoid unintended downstream flooding as a result of upstream drainage improvements, the recommended construction sequence of CIPs within a drainage group starts with the most downstream CIP first and then moves upstream. This subsection provides a summary of the design criteria, developed projects, preliminary project construction cost estimate, and a summary of recommended operation and maintenance practices of each CIP.

Some of the boundaries of the drainage groups changed during the development of the CIPs as some CIPs modify the routing of stormwater to different outfalls to relieve flow from other drainage groups. **Figure 7.1** shows the updated key map of the drainage groups under the potential CIPs.

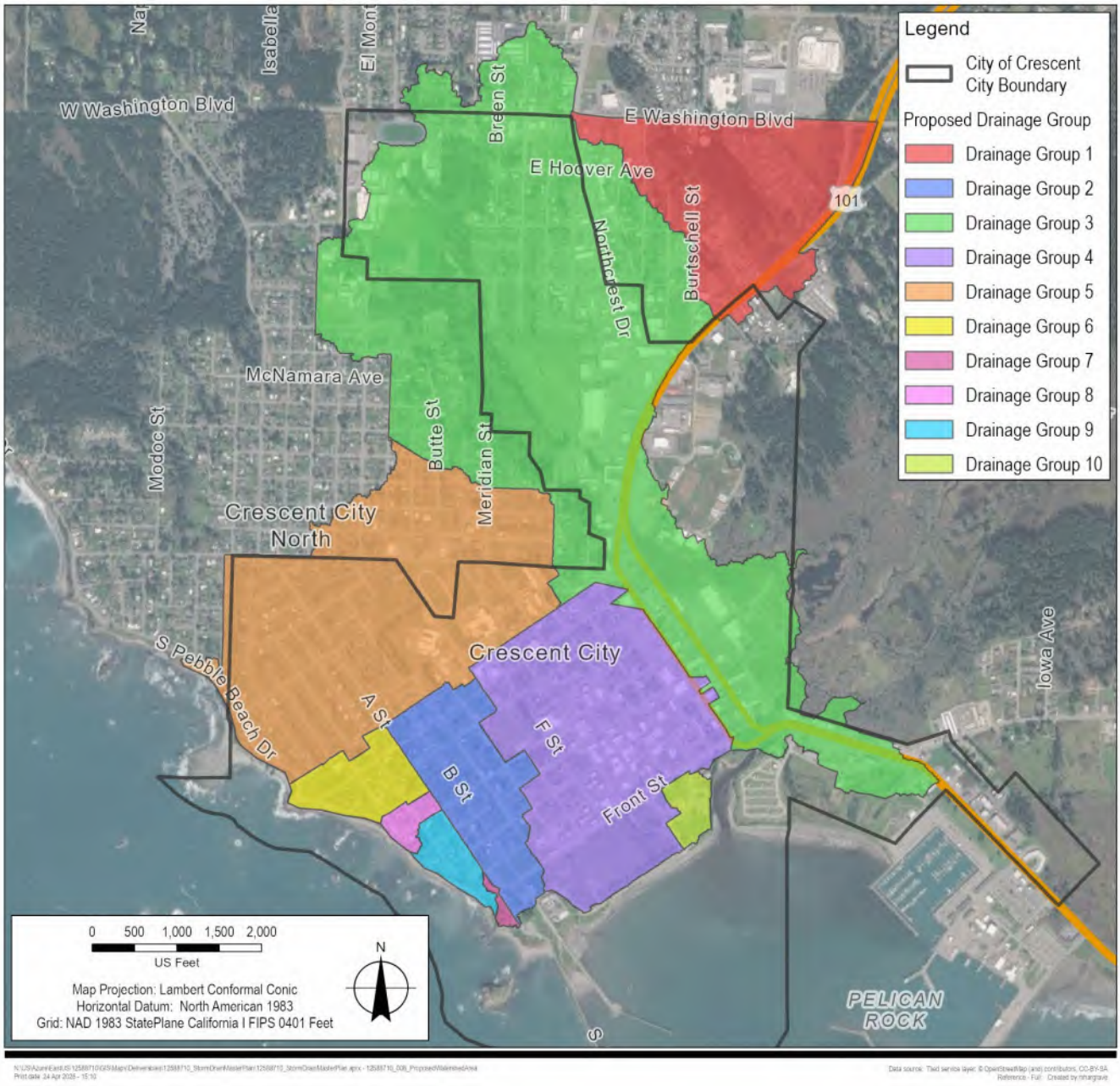


Figure 7.1 ***Key Map of Drainage Groups – Proposed Conditions***

7.4.1 DG1.1

Capital Improvement Project DG1.1 consists of approximately 780 linear feet of pipe upgrade shown below in **Figure 7.2**. This project is not within the City's jurisdiction as it is located entirely within the Caltrans right of way. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

– Upsizing approximately 80 linear feet of existing pipe on Highway 101 to 3-foot diameter HDPE pipe
– Upsizing approximately 700 linear feet of existing pipe Highway 101 to 2-foot diameter HDPE pipe
– Installing 4 new drainage inlets

DG1.1 is anticipated to be processed under CEQA as a Categorical Exemption, given the work is confined to the existing Caltrans-managed Hwy 101 ROW with no outfall modification. Anticipated approvals include coordination with Caltrans as the construction lead and a County Coastal Development Permit (CDP) for the coastal-zone segment if confirmed, with avoidance considerations due to proximity to the Elk Creek tributary corridor. This assessment assumes construction remains within paved areas, riparian vegetation can be avoided, the outfall is protected in place, and any floodplain interaction remains minimal based on mapped proximity to Zone A.

DG1.1 is classified as a Third-priority equity project based on its location within a Census Block Group with an equity score of 22.

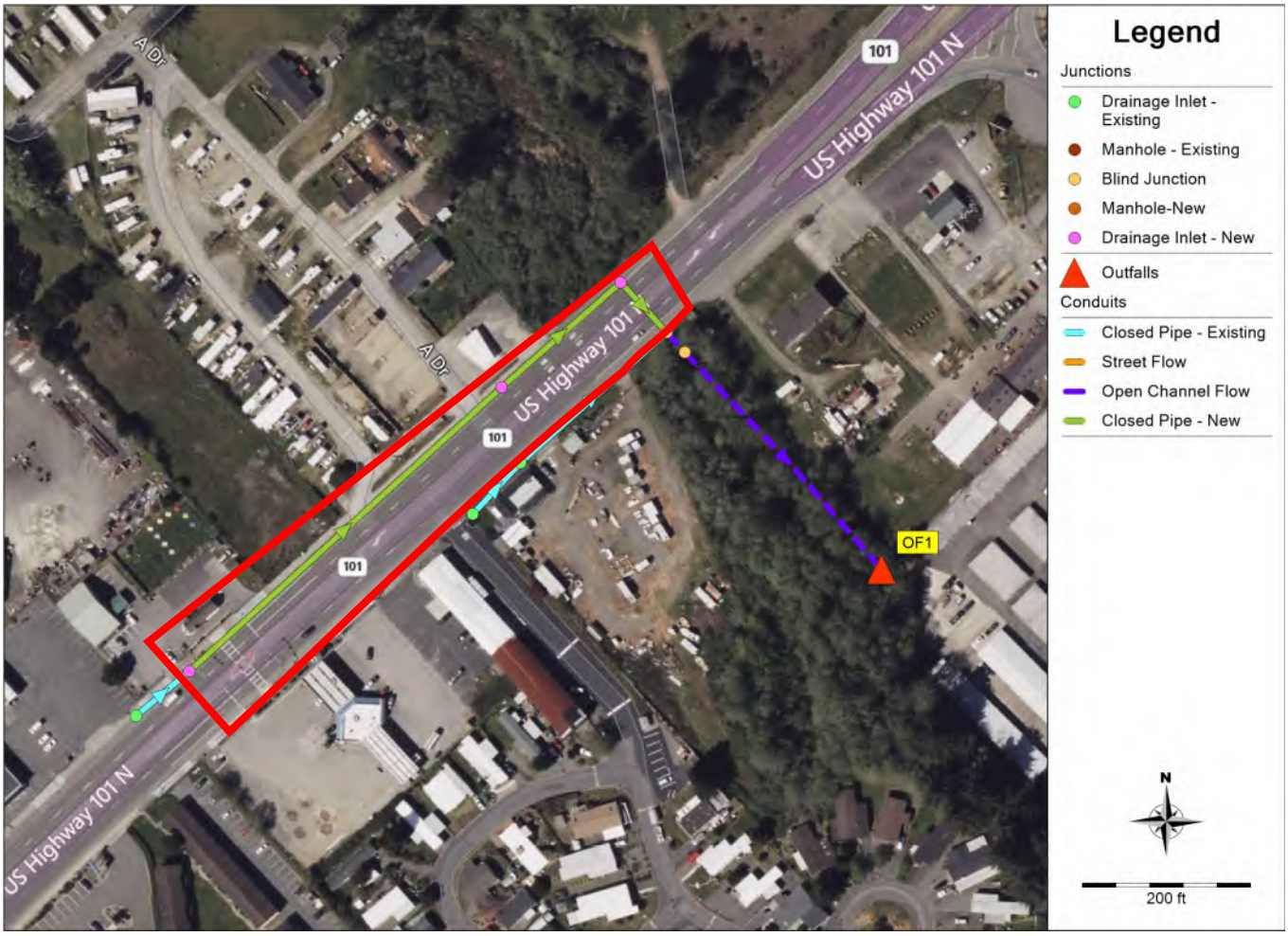


Figure 7.2 CIP DG1.1

7.4.2 DG2.1B

Capital Improvement Project DG2.1B consists of approximately 1850 linear feet of pipe upgrade shown below in **Figure 7.3**. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 1500 linear feet of existing pipe from 9th Street to 5th Street to 2.5-foot diameter HDPE pipe
- Upsizing approximately 200 linear feet of existing pipe from the corner of 5th Street and D Street to 2-foot diameter HDPE pipe
- Replacing approximately 150 linear feet of existing lateral pipes

– Installing 11 new drainage inlets and 4 new manholes for maintenance access

DG2.1B is anticipated to require streamlined CEQA documentation (likely Categorical Exemption) because it is primarily a developed urban ROW upsizing project with no outfall work at B Street Pier. Environmental approvals are expected to be minimal, with potential coastal-zone considerations limited to the downstream segment near the harbor if coastal jurisdiction is confirmed. This assessment assumes all work stays within existing ROW, the outfall is protected in place, and no sensitive habitats are disturbed because the alignment is largely within developed streets.

DG2.1B is classified as a First-priority equity project based on its location within a Census Block Group with an equity score of 12.



Figure 7.3 CIP DG2.1B

7.4.3 DG2.2

Capital Improvement Project DG2.2 consists of approximately 1000 linear feet of pipe upgrade shown below in **Figure 7.4**. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

– Upsizing approximately 200 linear feet of existing pipe to 1.5-foot diameter HDPE pipe
– Upsizing approximately 600 linear feet of existing pipe to 3-foot diameter HDPE pipe
– Replacing approximately 200 linear feet of existing lateral pipes
– Installing 9 new drainage inlets and 3 new manholes for maintenance access

DG2.2 is anticipated to be processed under CEQA (likely Categorical Exemption) for pipeline upsizing within a developed urban ROW. If any portion is confirmed within the Coastal Zone, a City CDP may be required for the coastal-zone segment; otherwise, permitting is expected to be limited to CEQA documentation. This assessment assumes work remains within existing ROW, no new discharge point is created, and the coastal-zone boundary is verified during design to confirm whether a CDP trigger applies.

DG2.2 is classified as a Second-priority equity project based on its location within a Census Block Group with an equity score of 18.

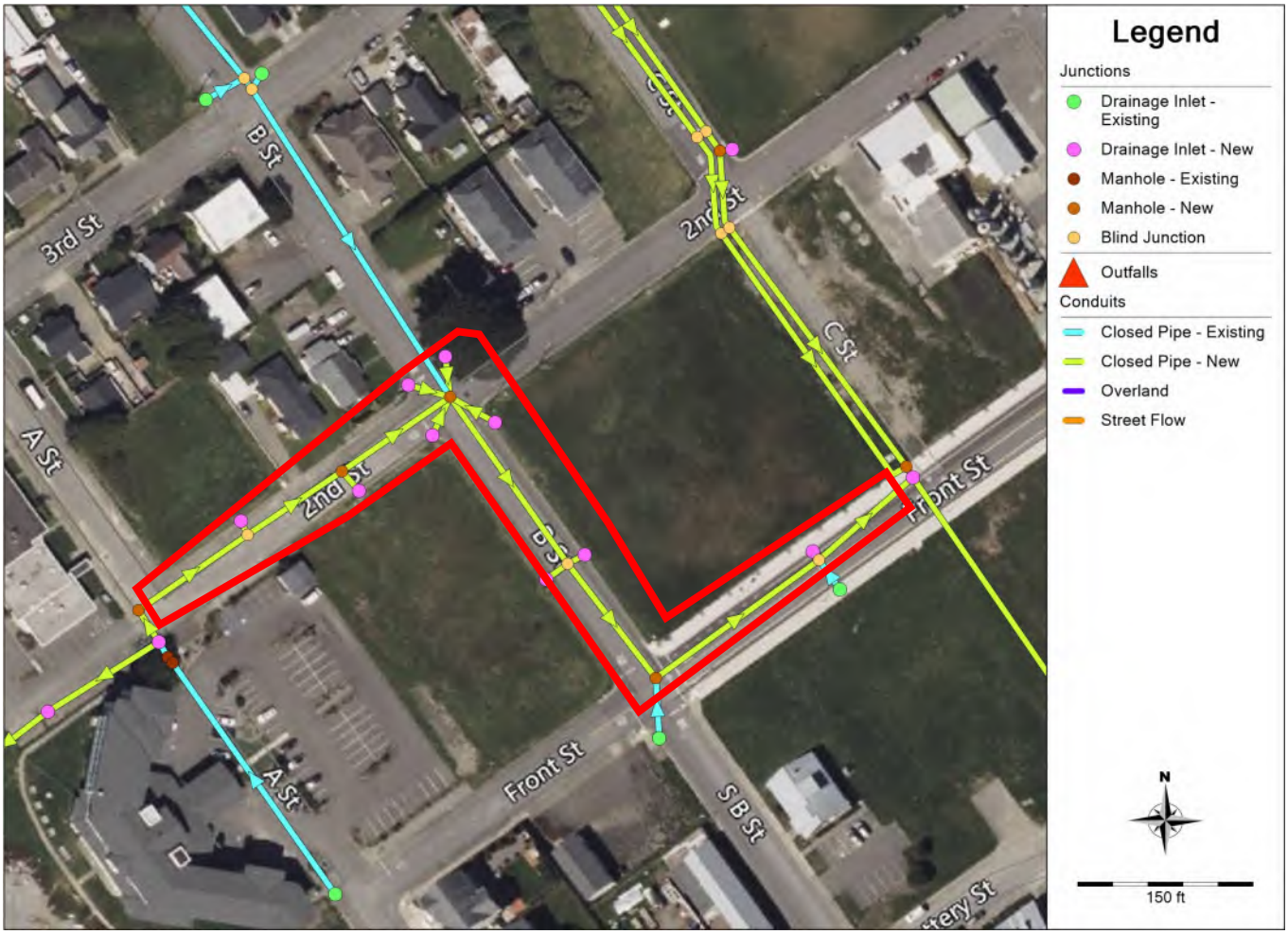


Figure 7.4 CIP DG2.2

7.4.4 DG2.2B

Capital Improvement Project DG2.2B consists of approximately 850 linear feet of pipe upgrade shown below in **Figure 7.5**. This CIP drains B St between 6th and 2nd and connects existing pipes under houses or private property. The following improvements are included in the CIP:

– Upsizing approximately 750 linear feet of existing pipe to 2-foot diameter HDPE pipe
– Replacing approximately 100 linear feet of existing lateral pipes
– Installing 6 new drainage inlets and 3 new manholes for maintenance access

DG2.2B is anticipated to qualify for CEQA Categorical Exemption because it is a conveyance improvement with limited environmental triggers and no coastal-zone overlap identified. No coastal or resource-agency permits are anticipated based on the developed setting and absence of mapped sensitive resources in the screening. This

assessment assumes any required easement acquisition is handled separately (outside environmental scope), construction remains within previously disturbed areas, and no outfall or jurisdictional water feature is directly affected.

DG2.2B spans multiple Census Block Groups with equity scores of 12 and 18 and is classified as a First- to Second-priority equity project.

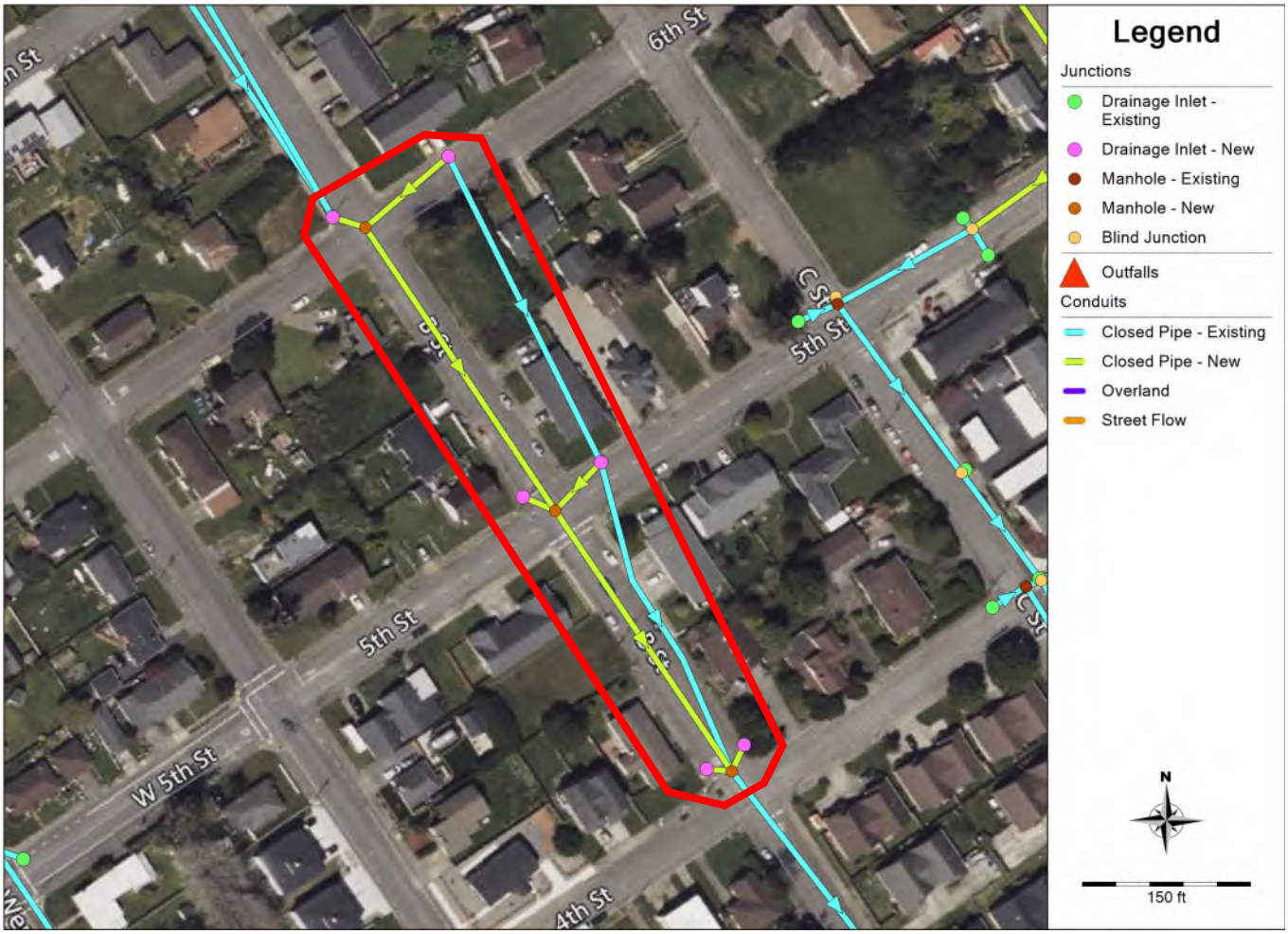


Figure 7.5 CIP DG2.2B

7.4.5 DG3.1A

Capital Improvement Project DG3.1A consists of approximately 2700 linear feet of pipe upgrade shown below in **Figure 7.6**. This CIP drains the area east of Highway 101 at the south end of the city. The area is tidally influenced and receives water from up basin limiting improvements in that region Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 350 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
- Upsizing approximately 2350 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Replacing approximately 25 linear feet of existing lateral pipes
- Installing 8 new drainage inlets

DG3.1A is anticipated to require CEQA documentation beyond a simple exemption screening due to its intersection with a freshwater marsh setting and mapped Zone A floodplain. Potential approvals may include a FEMA Floodplain Development Permit and resource-agency permits such as CDFW 1602 and RWQCB 401 if jurisdictional waters or

wetlands are crossed or disturbed. This assessment assumes the project remains outside the Coastal Zone, the outfall is not modified, and wetland delineation/jurisdiction will be confirmed during design to refine permit needs.

DG3.1A is classified as a Third-priority equity project based on its location within a Census Block Group with an equity score of 22.

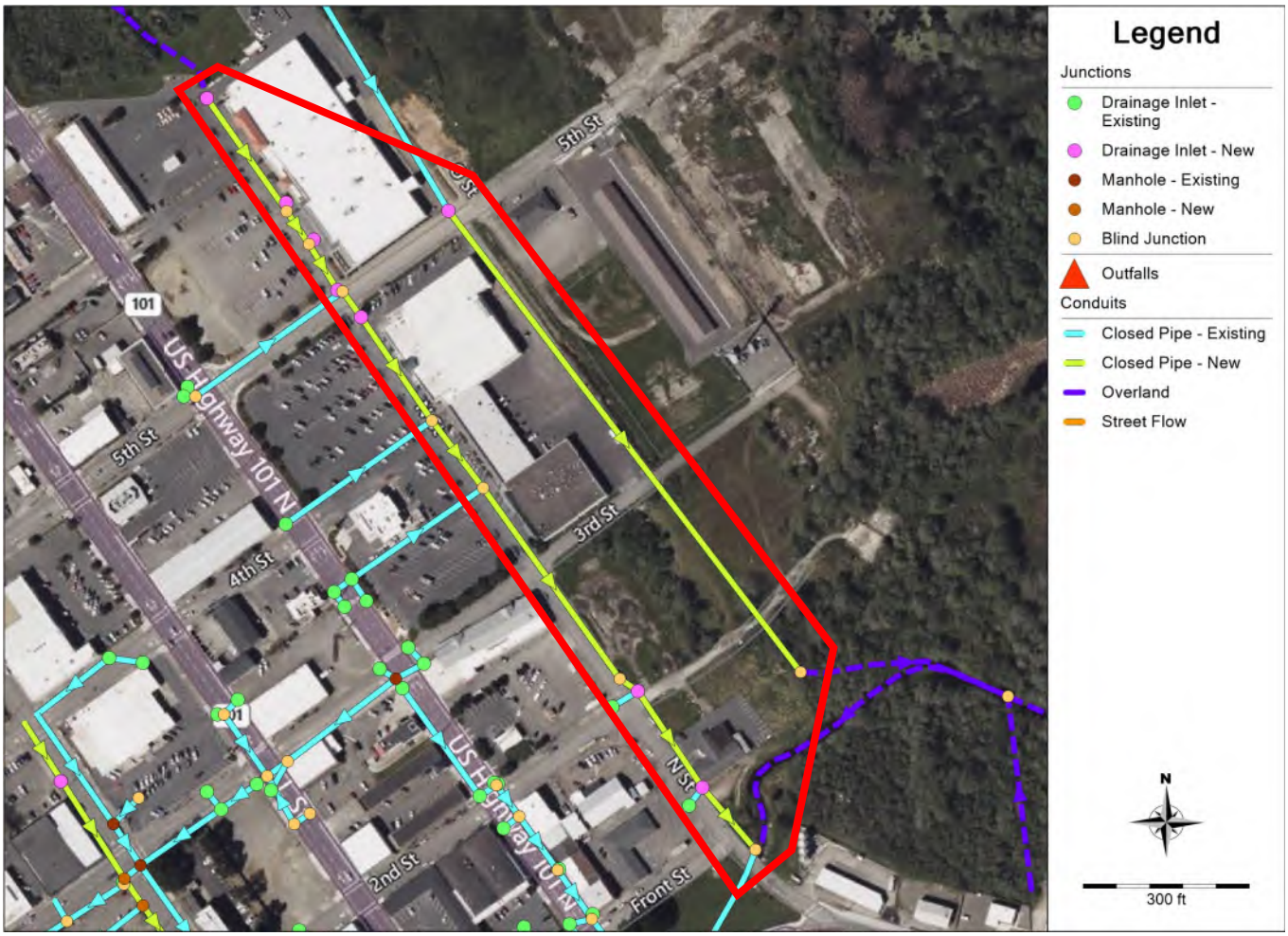


Figure 7.6 CIP DG3.1A

7.4.6 DG3.1B

Capital Improvement Project DG3.1B consists of approximately 1750 linear feet of pipe upgrade shown below in **Figure 7.7**. The following improvements are included in the CIP:

– Upsizing approximately 1600 linear feet of existing pipe to 2-foot diameter HDPE pipe
– Replacing approximately 150 linear feet of existing lateral pipes
– Installing 11 new drainage inlets

DG3.1B is anticipated to require CEQA documentation because the alignment transitions from developed ROW into a wetland/natural area at the eastern portion. Potential approvals include CDFW 1602 and, if federal jurisdiction is present, USACE 404 with RWQCB 401, depending on whether work crosses jurisdictional drainage features. This assessment assumes the project remains outside the Coastal Zone, the outfall is protected in place, and wetland extent/jurisdiction will be verified to confirm whether 1602/404/401 are triggered.

DG3.1B spans multiple Census Block Groups with equity scores of 18 and 22 and is classified as a Second- to Third-priority equity project.

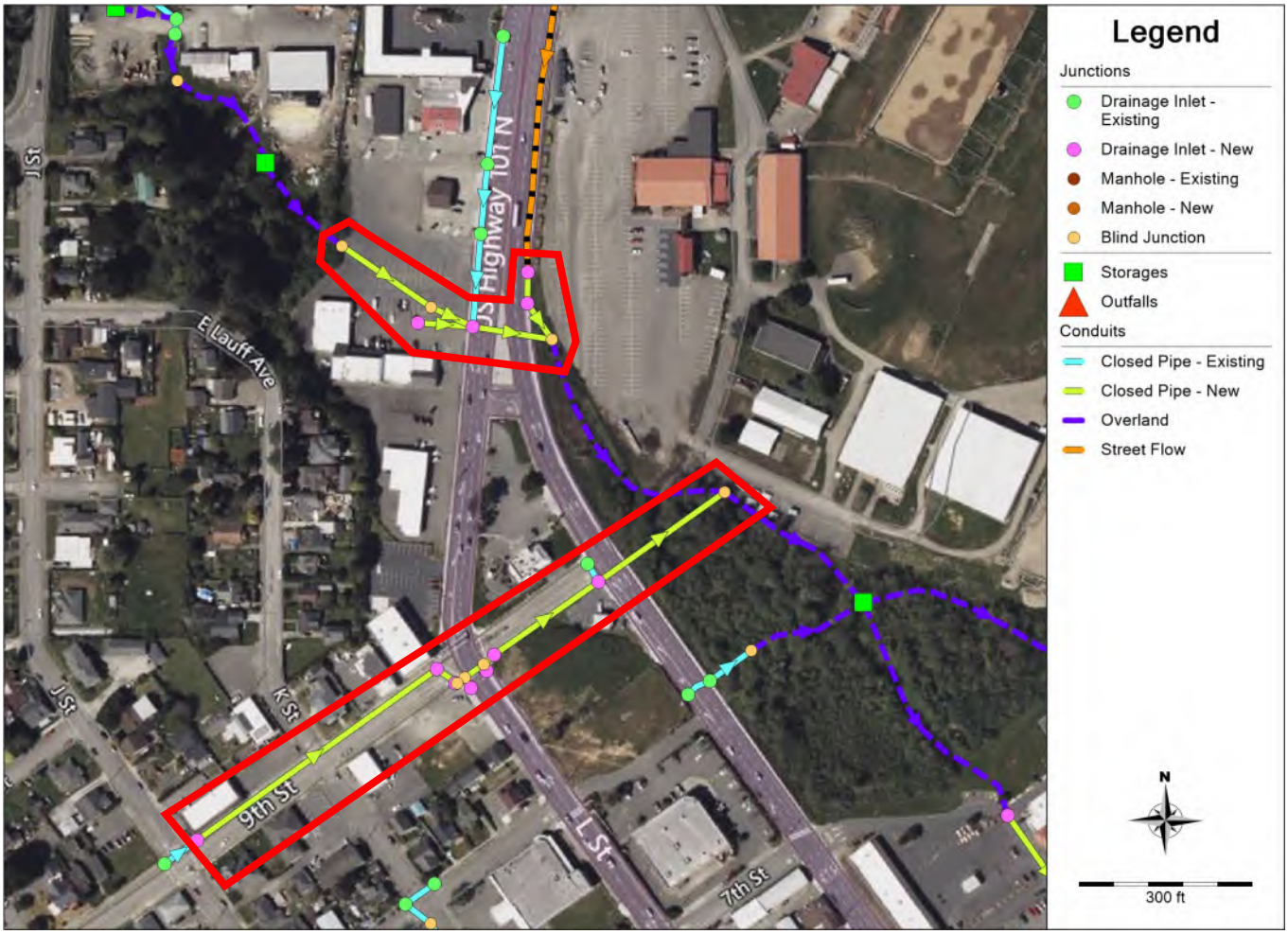


Figure 7.7 CIP DG3.1B

7.4.7 DG3.2A

Capital Improvement Project DG3.2A consists of approximately 1100 linear feet of pipe upgrade shown below in **Figure 7.8**. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 550 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
- Upsizing approximately 350 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Replacing approximately 200 linear feet of existing lateral pipes
- Installing 11 new drainage inlets and 2 new manholes for maintenance access

DG3.2A is anticipated to be processed under CEQA as a Categorical Exemption because it is standard pipe upsizing within a developed urban ROW outside the Coastal Zone. No coastal or resource-agency permits are anticipated based on the screening, provided no jurisdictional drainage is directly affected. This assessment assumes construction stays within existing disturbed ROW, avoids any unmapped drainage features, and does not modify the downstream outfall.

DG3.2A is classified as a Fourth-priority equity project based on its location within a Census Block Group with an equity score of 23.



Figure 7.8 CIP DG3.2A

7.4.8 DG3.2B

Capital Improvement Project DG3.2B consists of approximately 3900 linear feet of pipe addition or upgrade shown below in **Figure 7.9**. This CIP directs flow from East Washington Blvd and East Hoover Ave away from Northcrest Drive. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Add approximately 950 linear feet of 3-foot diameter HDPE pipe from East Hoover Ave & Oregon Street to California Street & East Coolidge Ave
- Add approximately 300 linear feet of 2.5-foot diameter HDPE pipe connecting the existing East Washington Blvd system to the East Coolidge Ave system
- Add approximately 450 linear feet of 1-foot diameter HDPE pipe from Northcrest Drive & East Hoover Ave to East Hoover Ave & Oregon Street
- Upsizing approximately 650 linear feet of existing pipe along East Coolidge Ave to 3-foot diameter HDPE pipe
- Upsizing approximately 400 linear feet of existing pipe along East Washington Blvd and Oregon Street to 2.5-foot diameter HDPE pipe
- Replacing or adding approximately 400 linear feet of lateral pipes
- Installing 21 new drainage inlets and 6 new manholes for maintenance access

DG3.2B is anticipated to require CEQA documentation, with the level potentially increasing if any tie-ins or interactions with jurisdictional drainage features occur at the western end. Resource-agency permits such as CDFW 1602 and potentially USACE 404/RWQCB 401 may be needed if work affects a creek/drainage feature, but could remain limited if improvements stay within developed ROW. This assessment assumes the project does not impact Elk Creek or other jurisdictional waters, the outfall is protected in place, and the larger construction scale alone does not drive permitting unless resource impacts are present.

DG3.2B is classified as a Fourth-priority equity project based on its location within a Census Block Group with an equity score of 23.

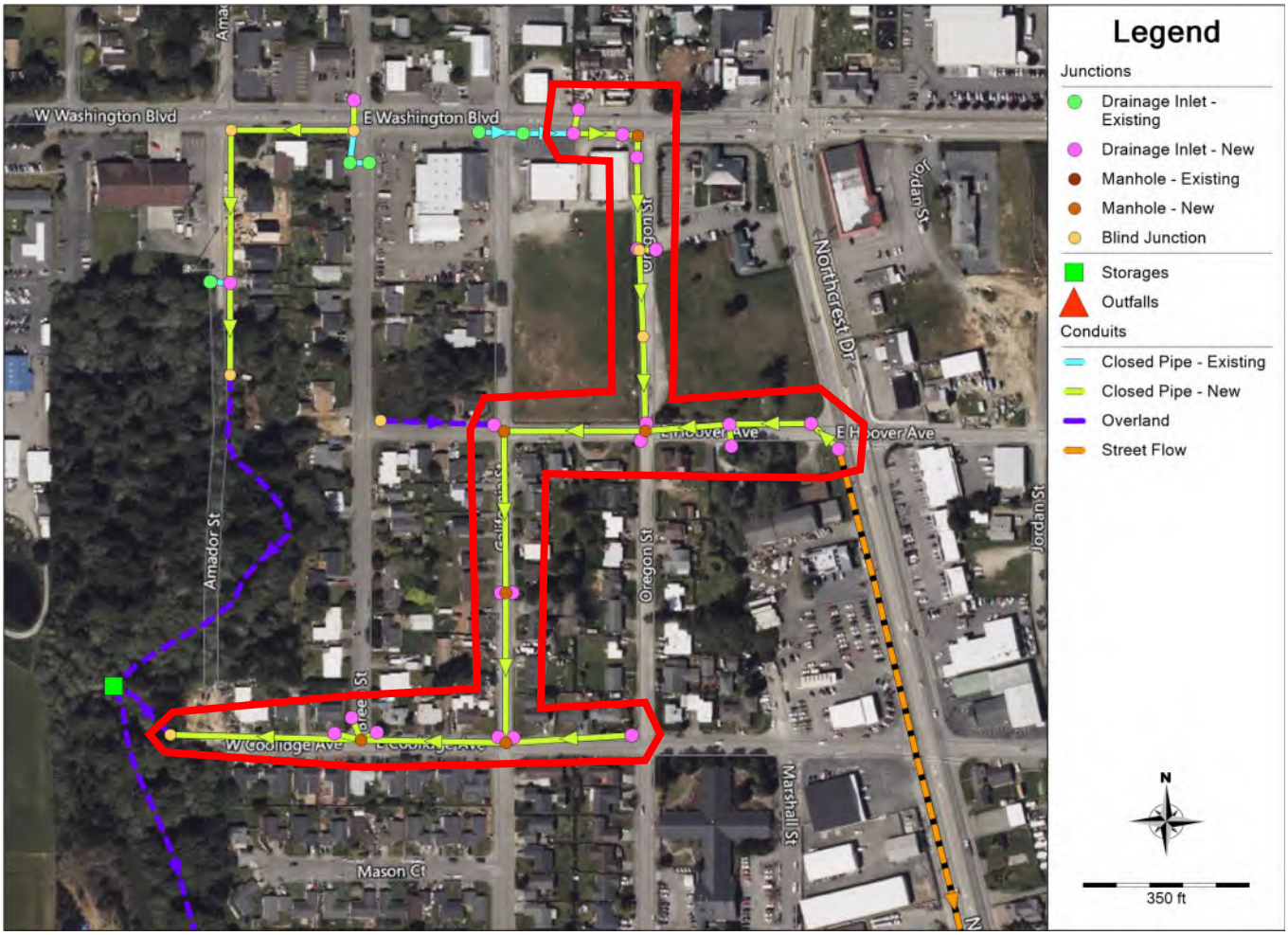


Figure 7.9 CIP DG3.2B

7.4.9 DG3.2C

Capital Improvement Project DG3.2C consists of approximately 850 linear feet of pipe upgrade shown below in **Figure 7.10**. This CIP drains East Washington Blvd from Amador Street and Breen Street and directs flow to the greenway/creek. The following improvements are included in the CIP:

– Upsizing approximately 800 linear feet of existing pipe to 2-foot diameter HDPE pipe
– Replacing or adding approximately 50 linear feet of lateral pipes
– Installing 2 new drainage inlets

DG3.2C is anticipated to require CEQA at the Initial Study/Negative Declaration level due to its direct connection/discharge to a greenway/creek and partial Coastal Zone overlap. Expected approvals include CDFW 1602,

RWQCB 401, and potentially USACE 404, plus a City CDP for the coastal-zone segment and supporting biological surveys. This assessment assumes the greenway/creek is potentially jurisdictional (to be confirmed), the design avoids unnecessary in-channel work, and the discharge connection is refined during design to define exact agency triggers.

DG3.2C is classified as a Fourth-priority equity project based on its location within a Census Block Group with an equity score of 23.

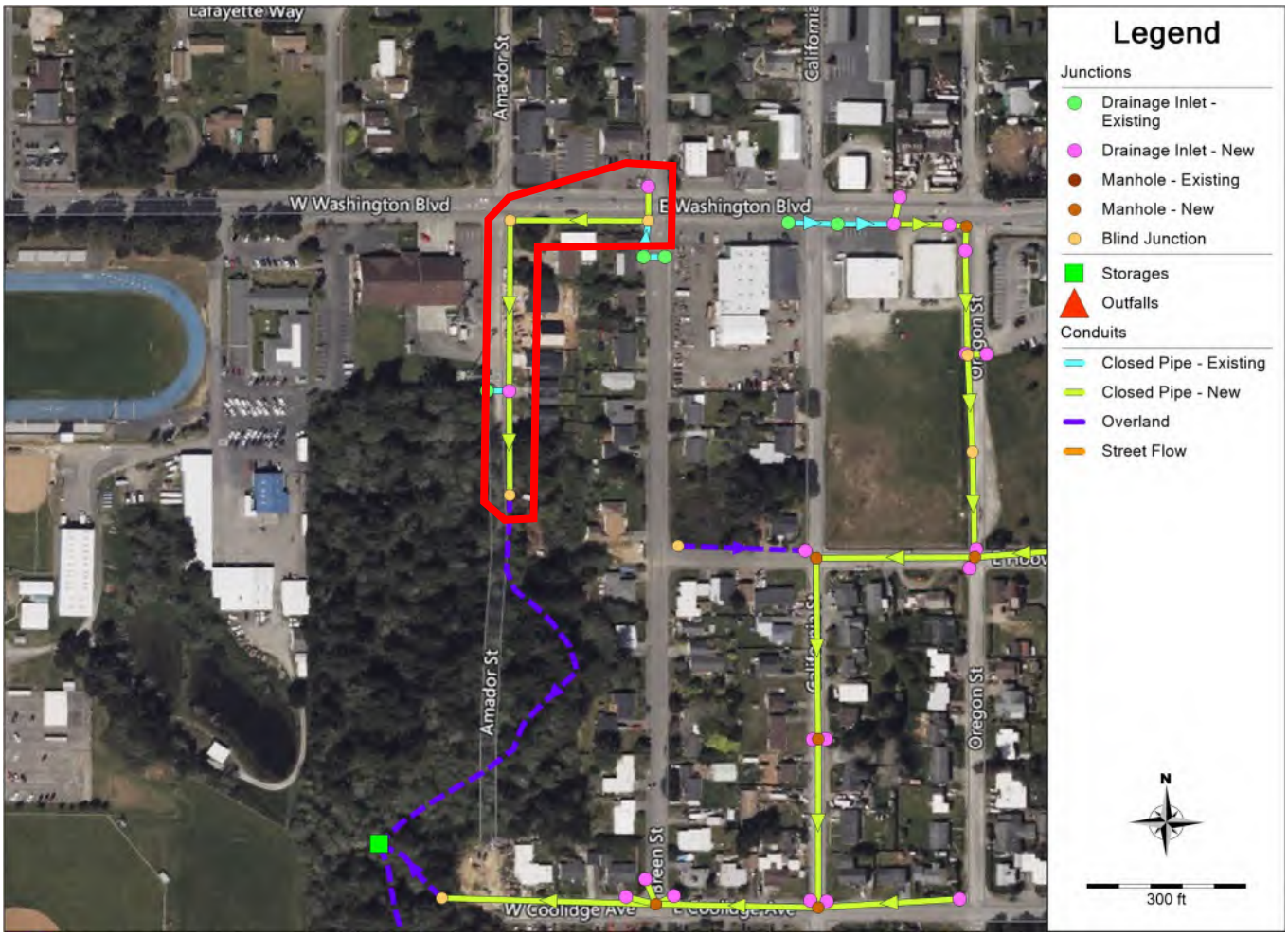


Figure 7.10 CIP DG3.2C

7.4.10 DG3.3A

Capital Improvement Project DG3.3A consists of approximately 400 linear feet of pipe upgrade shown below in **Figure 7.11**. This CIP drains flooding that occurs at the South end of the city which may impact Highway 101 and Elk Valley Rd. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 350 linear feet of existing pipe to 1.5-foot diameter HDPE pipe
- Upsizing approximately 50 linear feet of existing pipe to 1-foot diameter HDPE pipe
- Installing 3 new drainage inlets

DG3.3A is anticipated to require CEQA documentation because the northern extent may intersect floodplain/wetland conditions and partially overlaps the Coastal Zone. Potential approvals include CDFW 1602, RWQCB 401, and possibly USACE 404, with FEMA and LCP/CDP applicability dependent on where construction limits ultimately fall.

This assessment assumes the primary work remains within developed ROW, and permit requirements will be refined based on the final extent of construction at the northern terminus and confirmation of mapped resources.

DG3.3A spans multiple Census Block Groups with equity scores of 22 and 35 and is classified as a Third- to Fifth-priority equity project.

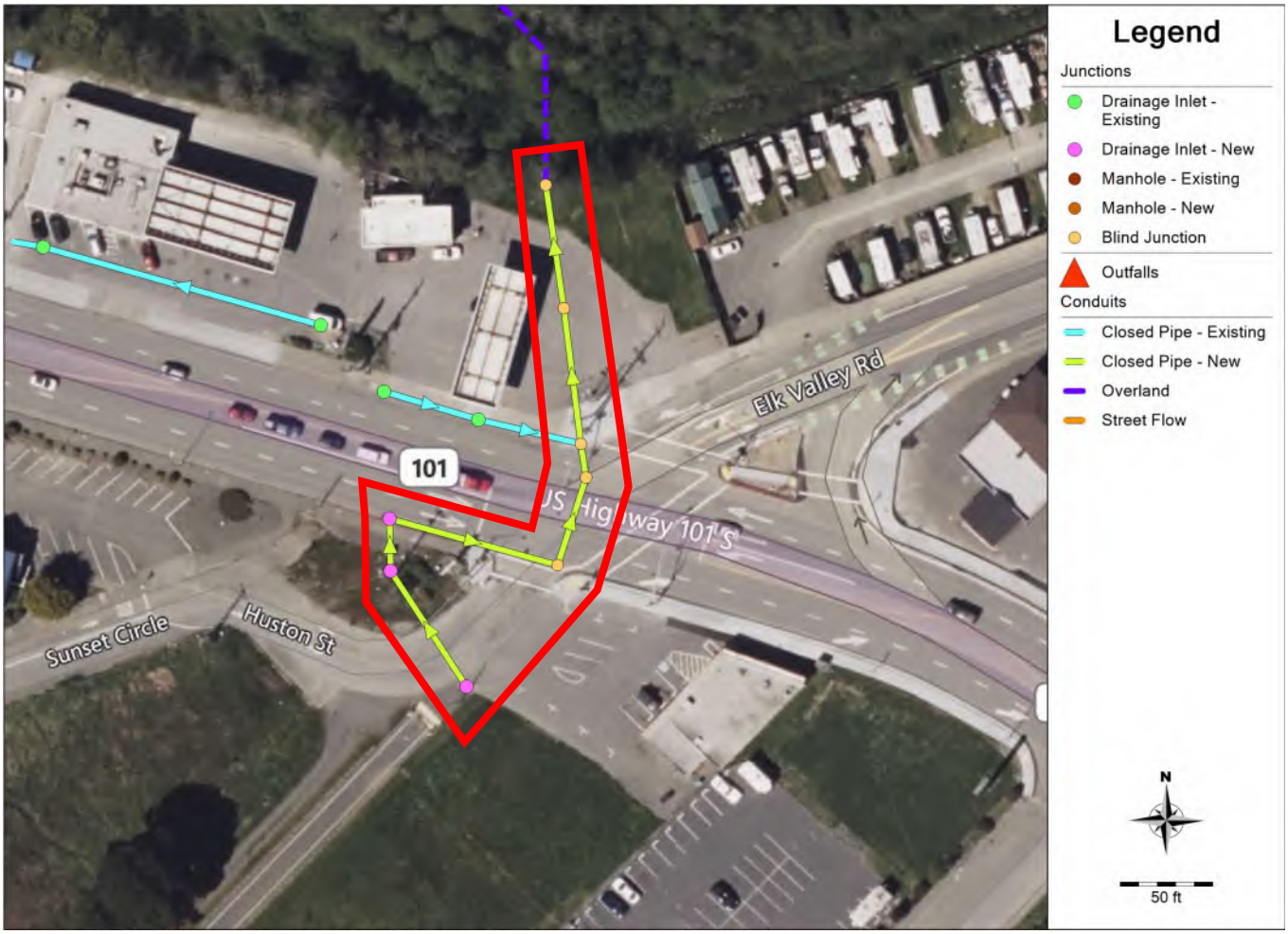


Figure 7.11 CIP DG3.3A

7.4.11 DG3.3B

Capital Improvement Project DG3.3B consists of approximately 1300 linear feet of pipe upgrade shown below in **Figure 7.12**. This CIP alleviates flooding along Highway 101 at the south end of the City near the North/South split. This project intersects the Caltrans right of way. The following improvements are included in the CIP:

– Upsizing approximately 1300 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
– Installing 7 new drainage inlets

DG3.3B is anticipated to require CEQA documentation with Caltrans typically serving as the CEQA lead due to construction within/adjacent to the Hwy 101 ROW. Anticipated approvals include a City CDP for the Coastal Zone segment and potential floodplain review (as indicated by mapped conditions), along with standard coordination requirements associated with Caltrans ROW work. This assessment assumes the project remains within existing transportation corridors, avoids expansion into sensitive habitats, and does not modify the receiving outfall.

DG3.3B spans multiple Census Block Groups with equity scores of 22 and 35 and is classified as a Third- to Fifth-priority equity project.

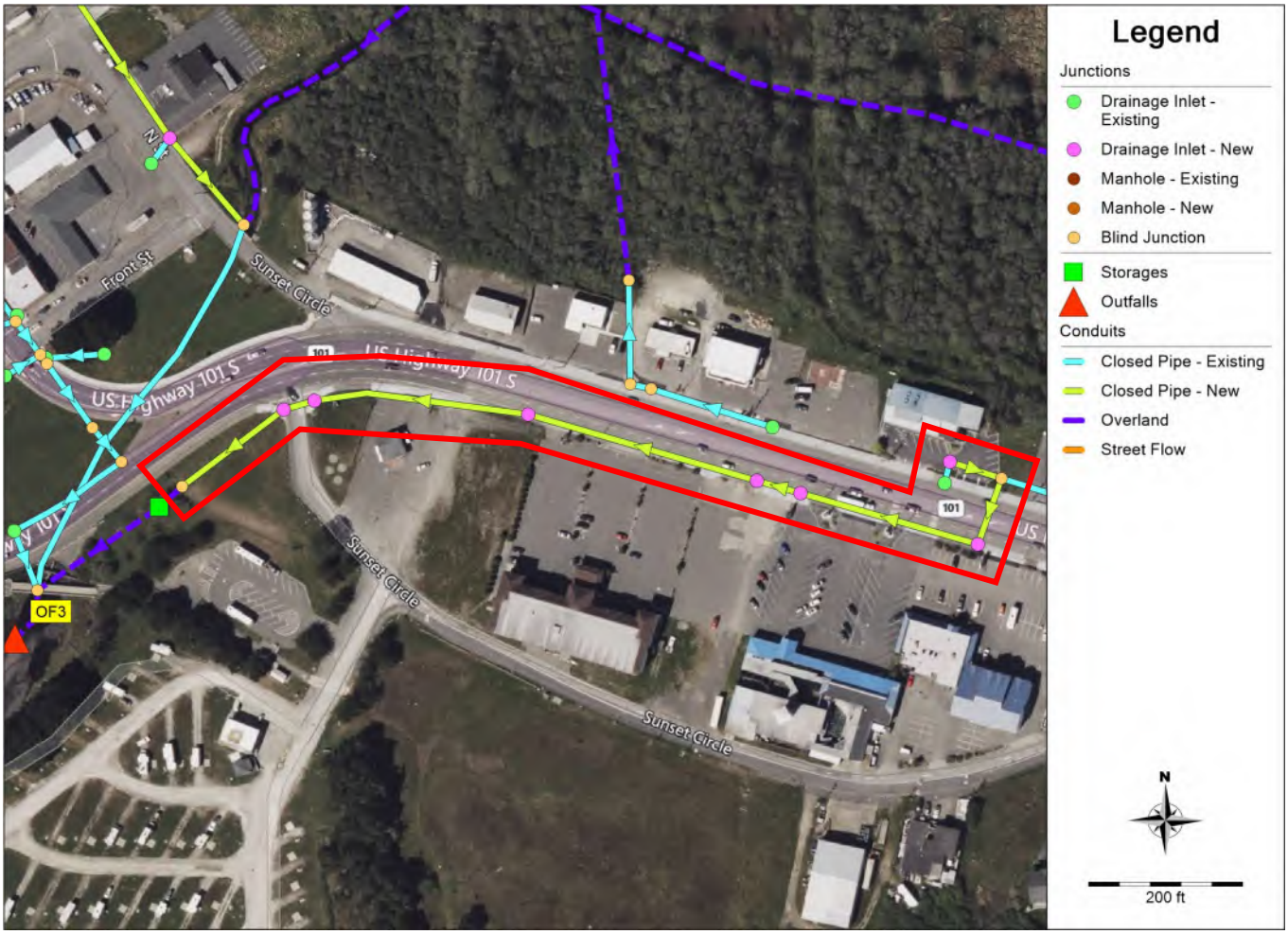


Figure 7.12 CIP DG3.3B

7.4.12 DG4.1A

Capital Improvement Project DG4.1A consists of approximately 1900 linear feet of pipe upgrade shown below in **Figure 7.13**. This CIP is intended to resolve the flooding at 5th & J and 4th & J by increasing capacity down K St. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 900 linear feet of existing pipe to 3-foot diameter HDPE pipe
- Upsizing approximately 400 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
- Upsizing approximately 350 linear feet of existing pipe to 1.5-foot diameter HDPE pipe
- Replacing approximately 250 linear feet of existing lateral pipes
- Installing 11 new drainage inlets and 10 new manholes for maintenance access

DG4.1A is anticipated to be processed under CEQA as a Categorical Exemption because it is pipe upsizing within a fully developed downtown street grid with no identified environmental triggers. No coastal or resource-agency permits are anticipated based on the developed setting and screening. This assessment assumes construction remains in existing ROW, avoids work in jurisdictional waters, and permitting can be bundled with DG4.1B to streamline documentation.

DG4.1A is classified as a Second-priority equity project based on its location within a Census Block Group with an equity score of 18

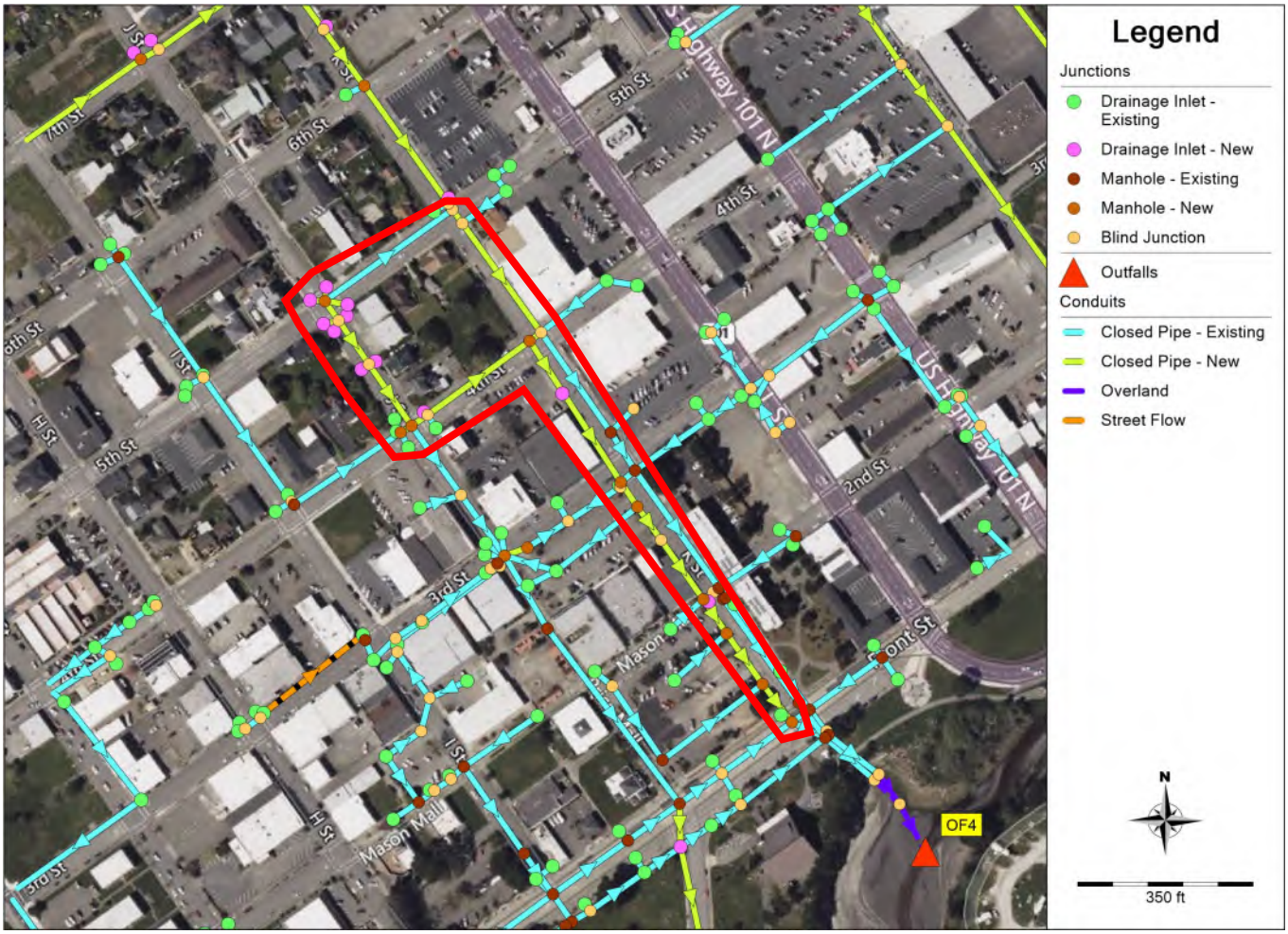


Figure 7.13 CIP DG4.1A

7.4.13 DG4.1B

Capital Improvement Project DG4.1B consists of approximately 1850 linear feet of pipe upgrade shown below in **Figure 7.14**. This CIP is intended to resolve the flooding on J & 7th and 8th & K. This project is hydraulically dependent on the downstream capacity provided by DG4.1A. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 1200 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
- Upsizing approximately 300 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Upsizing approximately 100 linear feet of existing pipe to 1.5-foot diameter HDPE pipe
- Replacing approximately 250 linear feet of existing lateral pipes
- Installing 11 new drainage inlets and 5 new manholes for maintenance access

DG4.1B is anticipated to be processed under CEQA documentation bundled with DG4.1A, likely as a Categorical Exemption for downtown ROW improvements. No additional coastal or resource-agency permits are anticipated because the setting is fully developed and outside identified sensitive constraints. This assessment assumes DG4.1B is included under a single environmental submittal with DG4.1A, with no outfall modification and no disturbance beyond existing paved ROW.

DG4.1B is classified as a Second-priority equity project based on its location within a Census Block Group with an equity score of 18.



Figure 7.14 CIP DG4.1B

7.4.14 DG4.2

Capital Improvement Project DG4.2 consists of approximately 1100 linear feet of pipe upgrade shown below in **Figure 7.15**. This project is hydraulically dependent on the downstream capacity provided by DG10.1. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 600 linear feet of existing pipe to 4-foot diameter HDPE pipe
- Upsizing approximately 350 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Replacing approximately 150 linear feet of existing lateral pipes
- Installing 3 new drainage inlets and 4 new manholes for maintenance access

DG4.2 is anticipated to require CEQA (likely Categorical Exemption) for ROW pipe upsizing, with a City CDP potentially required if the southern segment is confirmed within the Coastal Zone. No other resource-agency permits are expected based on the developed setting unless unanticipated drainage features are encountered during design. This assessment assumes the alignment remains within disturbed ROW, the coastal-zone boundary is verified to confirm CDP applicability, and the project remains dependent on downstream system conditions (DG10.1) without modifying outfalls.

DG4.2 is classified as a Second-priority equity project based on its location within a Census Block Group with an equity score of 18.

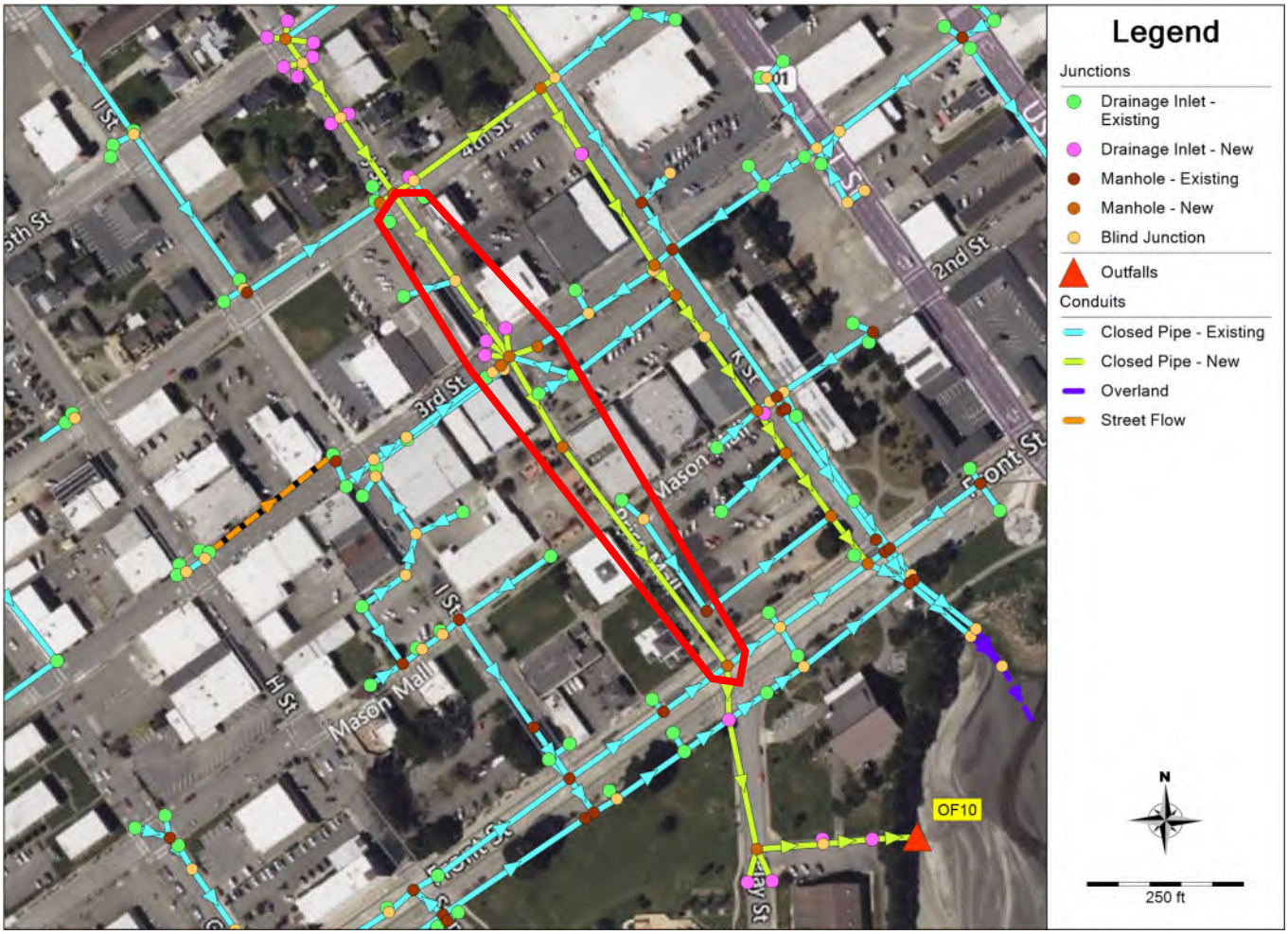


Figure 7.15 CIP DG4.2

7.4.15 DG4.3

Capital Improvement Project DG4.3 consists of approximately 1650 linear feet of pipe upgrade shown below in **Figure 7.16**. This project is hydraulically dependent on the downstream capacity provided by DG10.1.Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 100 linear feet of existing pipe to 3-foot diameter HDPE pipe
- Upsizing approximately 700 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Upsizing approximately 600 linear feet of existing pipe to 1-foot diameter HDPE pipe
- Replacing approximately 350 linear feet of existing lateral pipes
- Installing 9 new drainage inlets and 4 new manholes for maintenance access

DG4.3 is anticipated to require only minimal CEQA documentation because it is standard pipe upsizing within developed ROW and outside the Coastal Zone per screening. No coastal or resource-agency permits are anticipated if the work remains within existing disturbed corridors and avoids jurisdictional waters. This assessment assumes permitting can be bundled with DG4.2 where practical, and no outfall modifications or new discharge points are included in the scope.

DG4.3 is classified as a Second-priority equity project based on its location within a Census Block Group with an equity score of 18.



Figure 7.16 CIP DG4.3

7.4.16 DG5.1

Capital Improvement Project DG5.1 consists of approximately 4400 linear feet of pipe addition or upgrade shown below in **Figure 7.17**. This CIP adds a cross-town interceptor that routes the Northwestern drainage groups to Outfall 5. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Adding approximately 2200 linear feet of 4.5-foot diameter HDPE pipe down 9th Street running West from D street to Outfall 5
- Adding approximately 600 linear feet of 4-foot diameter HDPE pipe
- Adding approximately 1300 linear feet of existing pipe to 3-foot diameter HDPE pipe
- Upsizing approximately 200 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
- Replacing approximately 100 linear feet of existing lateral pipes
- Installing 8 new drainage inlets and 5 new manholes for maintenance access

DG5.1 is anticipated to require CEQA Categorical Exemption but with heightened coastal review due to its downstream segment within the City Coastal Zone and proximity to coastal resources near Outfall 5. Anticipated approvals include a City CDP (potentially appealable) and supporting biological/cultural documentation if sensitive habitat (ESHA) or coastal bluff considerations are confirmed near the outfall vicinity. This assessment assumes the

interceptor is constructed within paved roadway, the existing outfall is protected in place, and coastal resource effects can be avoided or minimized through alignment and standard BMPs.

DG5.1 spans multiple Census Block Groups with equity scores of 12 and 18 and is classified as a First- to Second-priority equity project.



Figure 7.17 CIP DG5.1

7.4.17 DG5.2

Capital Improvement Project DG5.2 consists of approximately 3050 linear feet of pipe upgrade shown below in **Figure 7.18**. This CIP addresses flooding on Pacific Ave and is hydraulically dependent on the downstream capacity provided by DG5.1. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 900 linear feet of existing pipe to 3-foot diameter HDPE pipe
- Upsizing approximately 1000 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
- Upsizing approximately 600 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Replacing approximately 550 linear feet of existing lateral pipes
- Installing 14 new drainage inlets and 3 new manholes for maintenance access

DG5.2 is anticipated to have minimal incremental environmental review because it is a developed ROW upsizing project that is hydraulically tied to DG5.1. Environmental compliance is expected to be addressed by bundling DG5.2 under the DG5.1 CDP and CEQA package, with no separate resource-agency permits anticipated. This assessment

assumes DG5.2 remains outside the Coastal Zone, stays within existing ROW, and does not add outfall work or new environmental triggers beyond DG5.1.

DG5.2 spans multiple Census Block Groups with equity scores of 23, 18, and 12 and is classified as a First- to Fourth-priority equity project.



Figure 7.18 CIP DG5.2

7.4.18 DG5.3

Capital Improvement Project DG5.3 consists of approximately 1500 linear feet of pipe upgrade shown below in **Figure 7.19**. This drainage group drains flooding in the neighborhood along Gary St. This project is hydraulically dependent on the downstream capacity provided by DG5.1. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 1000 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
- Upsizing approximately 450 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Replacing approximately 50 linear feet of existing lateral pipes
- Installing 6 new drainage inlets and 1 new manhole for maintenance access

DG5.3 is anticipated to require streamlined CEQA (likely Categorical Exemption) as a developed residential ROW upsizing project dependent on DG5.1. Environmental permitting is expected to be managed through bundling with DG5.1 if the group is permitted together, with limited incremental scope added to the lead submittal. This assessment

assumes the work remains within disturbed ROW, avoids sensitive resources, and does not modify the outfall or create new coastal-zone triggers.

DG5.3 is classified as a First-priority equity project based on its location within a Census Block Group with an equity score of 12.

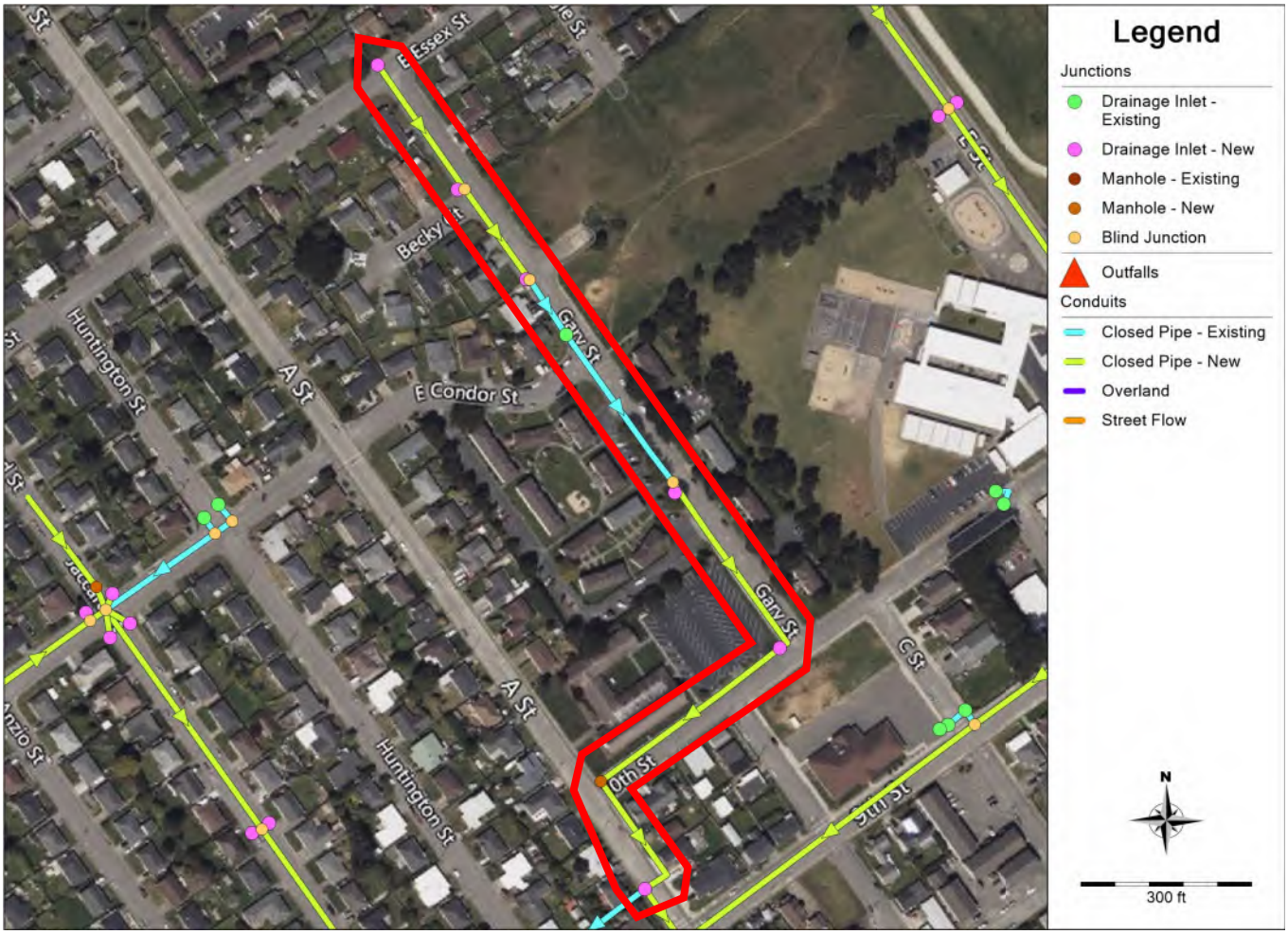


Figure 7.19 CIP DG5.3

7.4.19 DG5.4

Capital Improvement Project DG5.4 consists of approximately 3300 linear feet of pipe upgrade shown below in **Figure 7.20**. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 1400 linear feet of existing pipe to 3-foot diameter HDPE pipe
- Upsizing approximately 850 linear feet of existing pipe to 2.5-foot diameter HDPE pipe
- Upsizing approximately 700 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Replacing approximately 350 linear feet of existing lateral pipes
- Installing 15 new drainage inlets and 5 new manholes for maintenance access

DG5.4 is anticipated to require CEQA documentation consistent with ROW improvements, with the permitting approach expected to be most efficient if bundled with the DG5 package. No standalone coastal or resource-agency permits are anticipated based on screening if the alignment remains outside the Coastal Zone and avoids jurisdictional

waters. This assessment assumes the increased project length does not, by itself, trigger additional permits, and that DG5.4 can be included as a “ride-along” under DG5.1’s environmental documentation where applicable.

DG5.4 is classified as a First-priority equity project based on its location within a Census Block Group with an equity score of 12.



Figure 7.20 CIP DG5.4

7.4.20 DG5.5

Capital Improvement Project DG5.5 consists of approximately 550 linear feet of pipe upgrade shown below in **Figure 7.21**. This project is hydraulically dependent on the downstream capacity provided by DG5.1 and DG5.4. The following improvements are included in the CIP:

– Upsizing approximately 450 linear feet of existing pipe to 1.5-foot diameter HDPE pipe
– Replacing approximately 100 linear feet of existing lateral pipes
– Installing 3 new drainage inlets and 1 new manhole for maintenance access

DG5.5 is anticipated to require minimal CEQA documentation (likely Categorical Exemption) because it is a small-scale developed residential ROW improvement. Environmental permitting is expected to be addressed most efficiently by bundling with DG5.1 and other DG5 CIPs, with no separate coastal or resource-agency permits anticipated. This assessment assumes the work remains fully within disturbed ROW, does not modify the outfall, and adds only minor incremental description to the bundled environmental package.

DG5.5 is classified as a First-priority equity project based on its location within a Census Block Group with an equity score of 12.

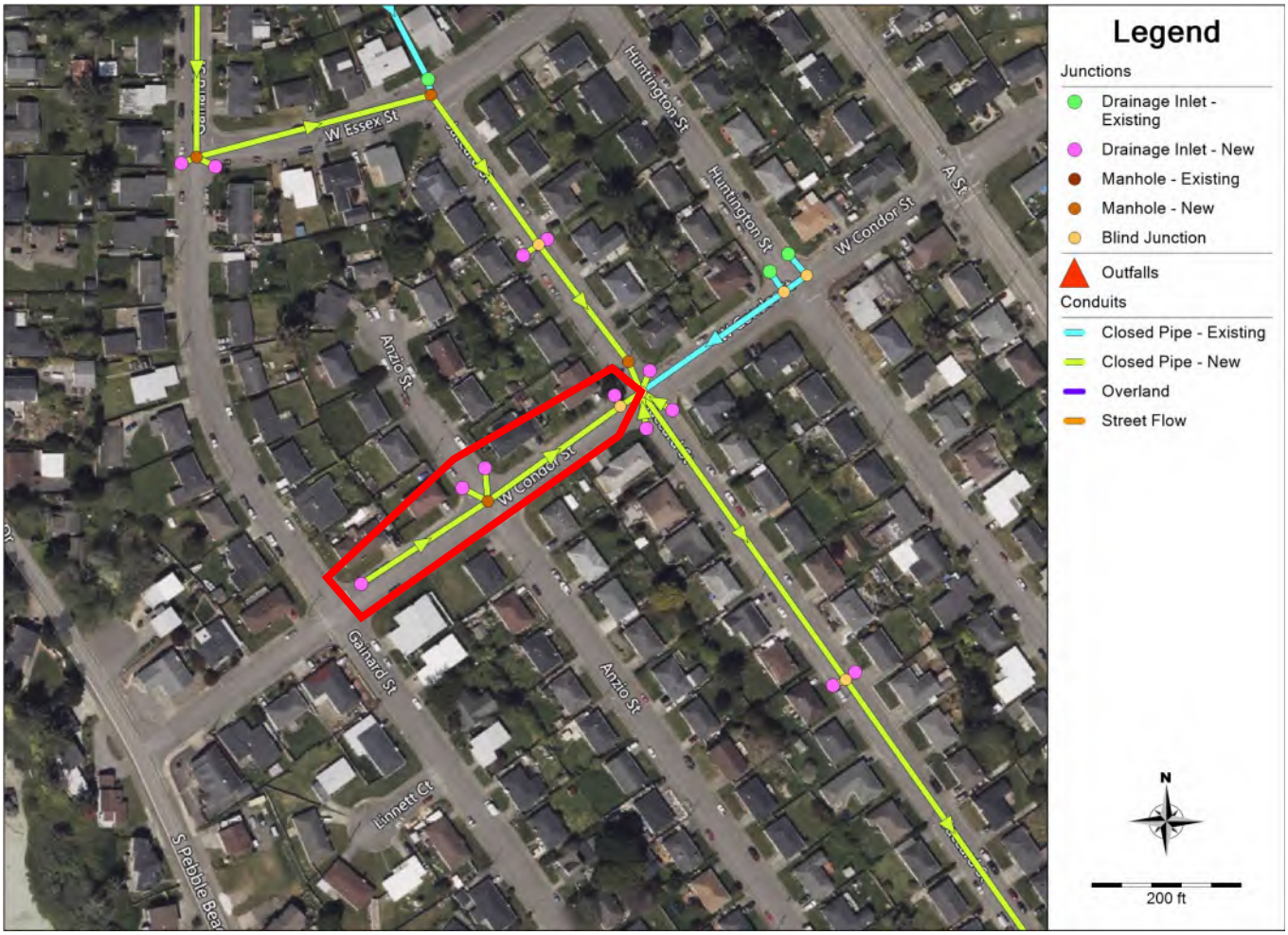


Figure 7.21 CIP DG5.5

7.4.21 DG6.1

Capital Improvement Project DG6.1 consists of approximately 650 linear feet of pipe upgrade shown below in **Figure 7.22**. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Upsizing approximately 50 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Upsizing approximately 450 linear feet of existing pipe to 1.5-foot diameter HDPE pipe
- Replacing approximately 150 linear feet of existing lateral pipes
- Installing 8 new drainage inlets and 3 new manholes for maintenance access

DG6.1 is anticipated to require coastal-zone environmental review due to its location within one block of the Pacific Ocean, with CEQA documentation and a City CDP that may be appealable depending on final limits near the beach. Additional considerations may include cultural resources review and potential tribal coordination because the Brother Jonathan Cemetery is identified as a historic/cultural resource in the project vicinity. This assessment assumes the work remains within mostly urban ROW, the existing outfall is not modified, and any cultural requirements are addressed through standard CEQA cultural screening and consultation protocols if triggered.

DG6.1 spans multiple Census Block Groups with equity scores of 12 and 18 and is classified as a First- to Second-priority equity project.



Figure 7.22 CIP DG6.1

7.4.22 DG7.1

Capital Improvement Project DG7.1 consists of approximately 400 linear feet of pipe upgrade shown below in **Figure 7.23**. This CIP repairs failed pipe sections leading to Outfall 7 and adds relief from flow to DG2.2 The following improvements are included in the CIP:

– Replace approximately 400 linear feet of existing pipe with 1-foot diameter HDPE pipe
– Installing 2 new drainage inlets and 1 new manhole for maintenance access

DG7.1 is anticipated to require CEQA documentation potentially at the Initial Study/Negative Declaration level due to its coastal bluff/ESHA setting and Coastal Zone location near Outfall 7. Anticipated approvals include an appealable City CDP, biological survey/ESHA verification, and potentially USACE 404 with RWQCB 401 if any portion of work is determined to occur within federal/jurisdictional areas. This assessment assumes the work is limited to pipe repair in a small footprint, the outfall is protected in place, and any separate sediment/debris cleanout seaward of the mean high tide line would be evaluated and permitted separately if pursued.

DG7.1 is classified as a Second-priority equity project based on its location within a Census Block Group with an equity score of 18.

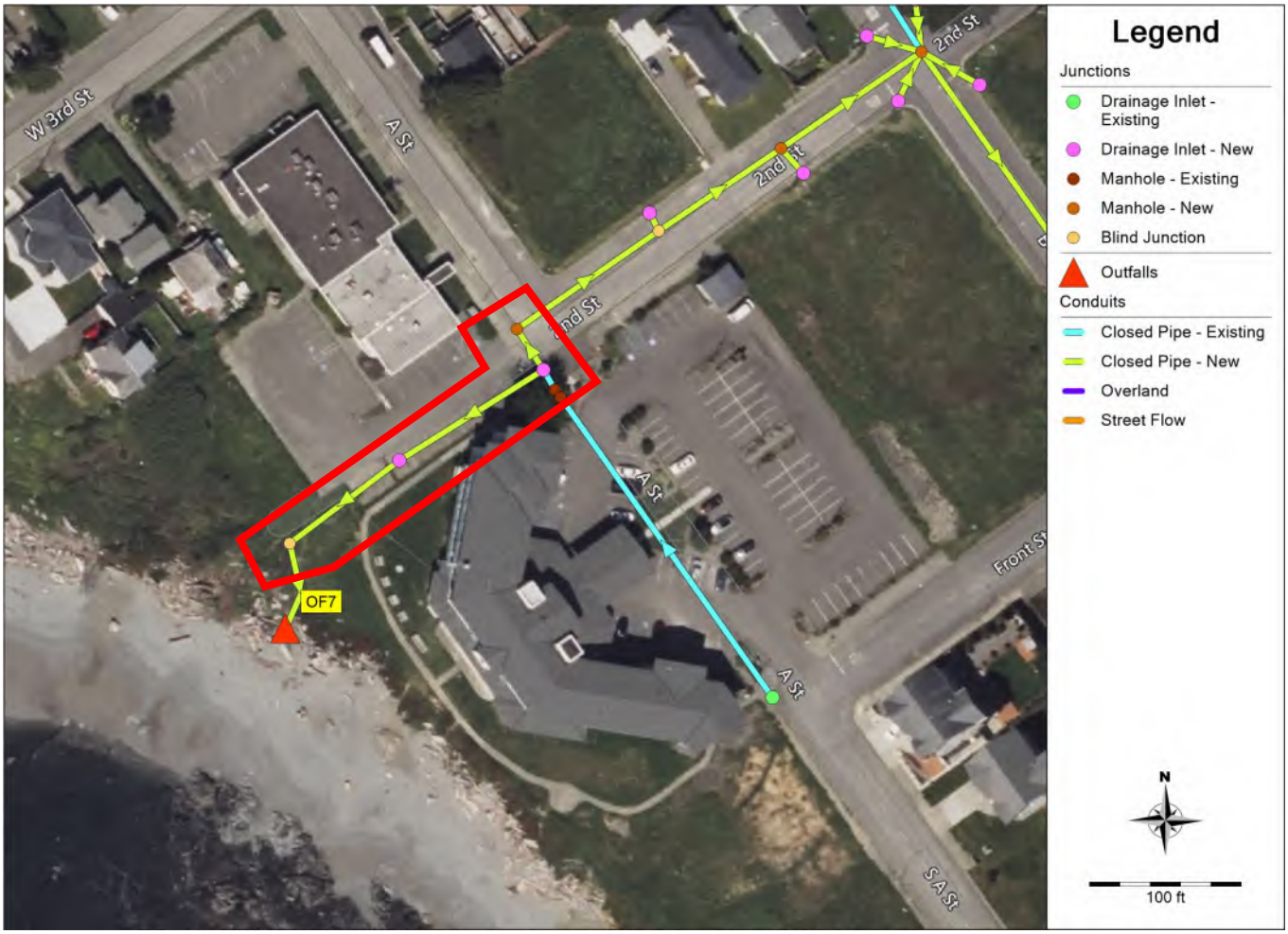


Figure 7.23 CIP DG 7.1

7.4.23 DG8.1

Capital Improvement Project DG8.1 consists of approximately 550 linear feet of pipe upgrade shown below in **Figure 7.24**. The following improvements are included in the CIP:

- Adding approximately 300 linear feet of 1-foot diameter HDPE pipe connecting the corner of West 5th Street & Wendell Street to Outfall 8
- Upsizing approximately 100 linear feet of existing pipe to 2-foot diameter HDPE pipe
- Replacing approximately 150 linear feet of existing lateral pipes
- Installing 7 new drainage inlets and 2 new manholes for maintenance access

DG8.1 is anticipated to require CEQA documentation potentially at the Initial Study/Negative Declaration level because it installs a new connection to an existing outfall within the Coastal Zone. Anticipated approvals include an appealable City CDP, biological survey/ESHA verification near the coastal bluff/outfall vicinity, and potential USACE 404/RWQCB 401 depending on the exact connection point relative to coastal jurisdictional boundaries. This assessment assumes the project connects to an existing outfall without modifying it, and that the final terminus is landward of the mean high tide line (if the connection occurs seaward, the permitting tier and agencies could escalate).

DG8.1 spans multiple Census Block Groups with equity scores of 12 and 18 and is classified as a First- to Second-priority equity project.



Figure 7.24 CIP DG8.1

7.4.24 DG9.1

Capital Improvement Project DG9.1 consists of approximately 700 linear feet of pipe upgrade shown below in **Figure 7.25**. The following improvements are included in the CIP:

– Upsizing approximately 600 linear feet of existing pipe to 2-foot diameter HDPE pipe
– Replacing approximately 150 linear feet of existing lateral pipes
– Installing 5 new drainage inlets and 2 new manholes for maintenance access

DG9.1 is anticipated to require CEQA documentation with coastal review because the alignment lies within the Coastal Zone strip near Wendell/A Street and may intersect native vegetation near the western terminus. Anticipated approvals include an appealable City CDP and biological survey/ESHA verification, with no outfall modification assumed. This assessment assumes construction stays within existing ROW, avoids unnecessary disturbance of coastal bluff vegetation, and the existing outfall is protected in place.

DG9.1 is classified as a Second-priority equity project based on its location within a Census Block Group with an equity score of 18.



Figure 7.25 CIP DG9.1

7.4.25 DG10.1

Capital Improvement Project DG10.1 consists of approximately 600 linear feet of pipe upgrade shown below in **Figure 7.26**. It is recommended to protect the existing outfall in place. Pipe upsizing varies along the alignment based on local hydraulic constraints. The following improvements are included in the CIP:

- Adding approximately 300 linear feet of 4-foot diameter HDPE pipe connecting the Front Street system to Outfall 10
- Upsizing approximately 250 linear feet of existing pipe to 4-foot diameter HDPE pipe
- Replacing approximately 50 linear feet of existing lateral pipes
- Installing 5 new drainage inlets and 1 new manhole for maintenance access

DG10.1 is anticipated to require CEQA Initial Study/Mitigated Negative Declaration-level review because it occurs in the Beachfront Park/Elk Creek mouth corridor, which is a high-resource setting with floodplain mapping and potential sensitive species/habitat concerns. Anticipated approvals include an appealable City CDP, biological assessment (with potential ESA/CESA considerations), possible CDFW 1602 and USACE 404/RWQCB 401 depending on any work in or near Elk Creek, a FEMA Floodplain Development Permit, and cultural resources screening (Phase I if warranted). This assessment assumes the outfall is protected in place, the design can avoid direct in-channel work and habitat impacts to the maximum extent feasible, and permit needs will be refined once final construction limits and avoidance measures are defined during design.

DG10.1 is classified as a Second-priority equity project based on its location within a Census Block Group with an equity score of 18.

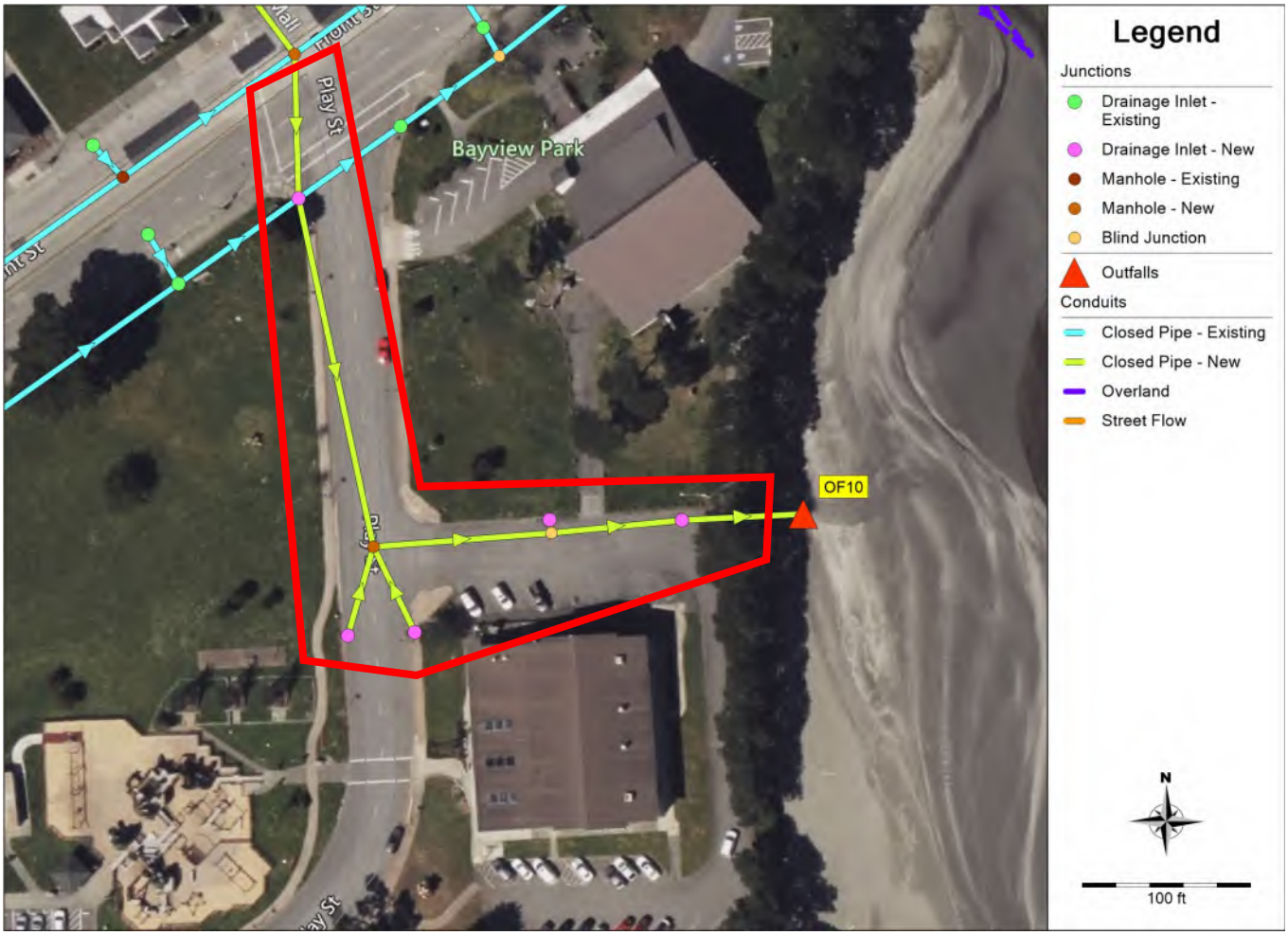


Figure 7.26 CIP DG10.1

7.5 Model Results with Proposed Improvements

To assess the efficacy of the proposed CIPs, 2D modelled flood depths and extents were generated with the assumption that all CIPs would be constructed. The figures below show the modelled 2D maximum flood depth and extent results after implementation of the proposed improvements for a 10-year, 24-hour duration SCS Type 1A storm event under present day (**Figure 7.27**) and the mid-century (**Figure 7.28**) and late century climate projections (**Figure 7.29**). The present-day results show a significant reduction in flood extent relative to existing conditions, however, there is a notable increase in the maximum flood extents and depths in Drainage Group 1 and Drainage Group 3 in the mid-century and late-century climate projected increase in precipitation intensity relative to present-day conditions. **Table 7.1** summarized the change in flood results by drainage group between Existing Conditions and Proposed Improvements for the 10-year, 24-hour SCS Type 1A storm event for present day as well as mid-century and late-century climate projections.

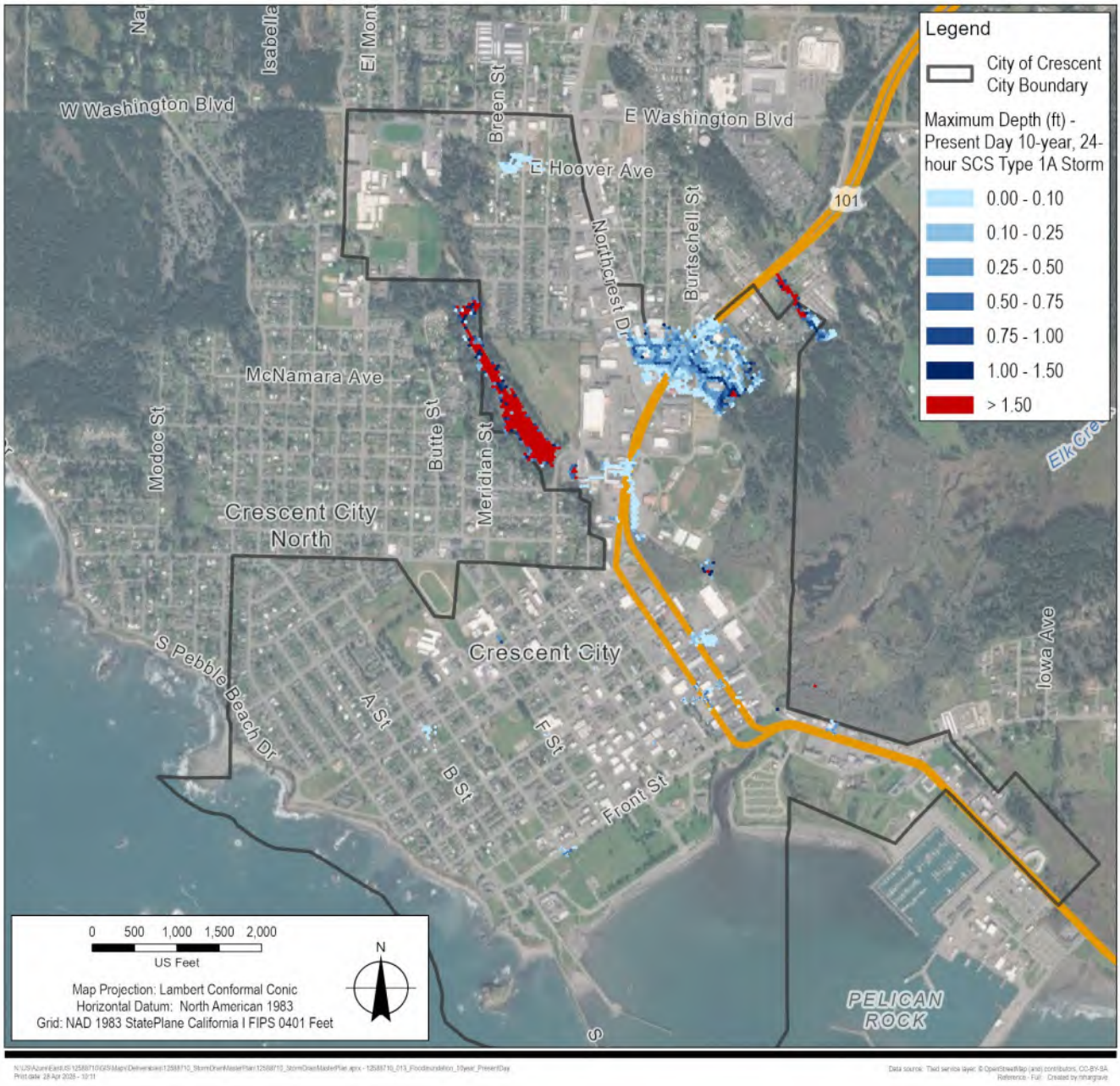


Figure 7.27 Flooding Extent and Depth under Proposed Condition – Present Day 10-year, 24-hour SCS Type 1A Storm

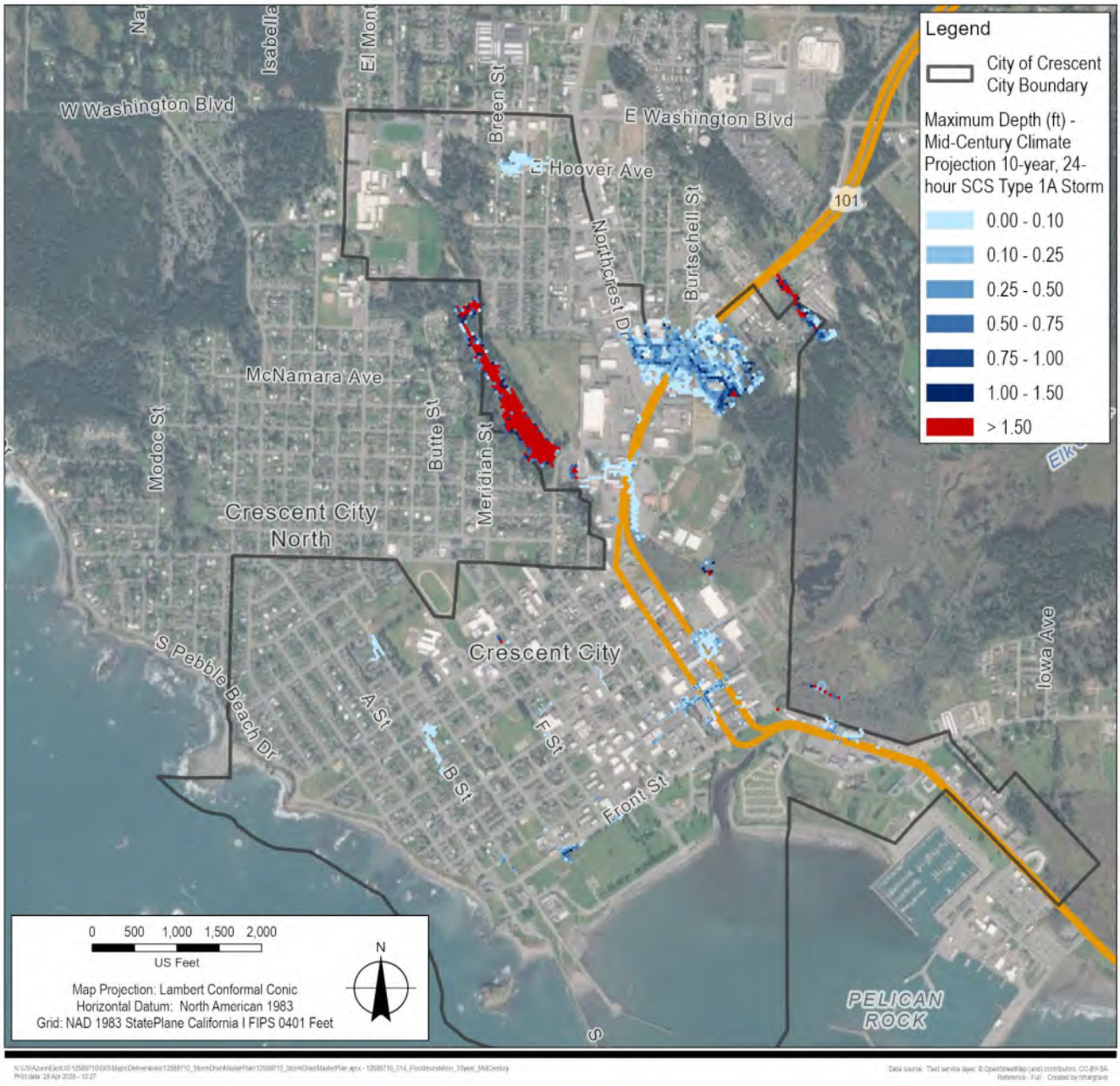


Figure 7.28 ***Flooding Extent and Depth under Proposed Condition – Mid-Century Climate Projection 10-year, 24-hour SCS Type 1A Storm***

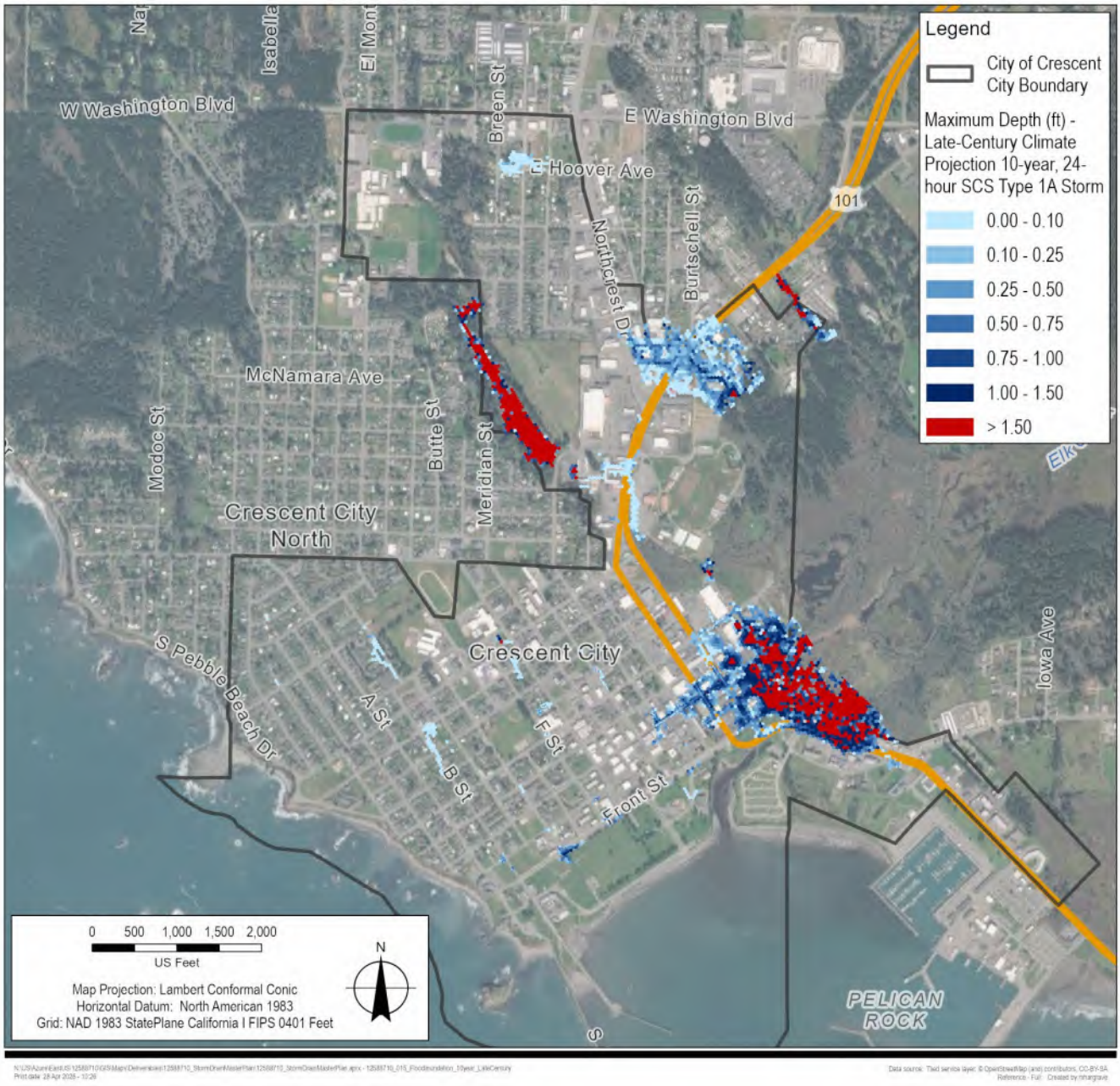


Figure 7.29 ***Flooding Extent and Depth under Proposed Condition – Late-Century Climate Projection 10-year, 24-hour SCS Type 1A Storm***

Table 7.1 Comparison of Model Results between Existing Conditions and Proposed Improvements

Drainage Group	Existing Conditions Present Day 10-Year Storm Event			Proposed Conditions Present Day 10-Year Storm Event			Proposed Conditions Mid-Century 10-Year Storm Event			Proposed Conditions Late Century 10-Year Storm Event		
	Total Flood Volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Total Flood Volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Total Flood Volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)	Total Flood Volume (MG)	Maximum Flood Rate (cfs)	Maximum Duration of Flooding (hrs)
DG1	9.8	65.8	22.4	0	0	0	0	0	0	0	0.2	0
DG2	6.8	14.7	22.6	0	0.3	0.1	0.1	6.1	0.5	315.2	4679.3	3.6
DG3	20.1	19.4	23.2	7.7	19.4	23.1	10.0	20.9	23.1	80.0	5051.1	23.2
DG4	12.3	42.9	23.2	0.9	9.1	22.8	1.4	11.8	22.9	242.7	1883.8	22.9
DG5	1.9	11.4	15.7	0	10.4	0.2	0.1	12.3	0.3	0.1	13.3	0.4
DG6	0.2	5.9	2.3	0	0	0	0	0	0	0	0.1	0.1
DG7	0	0	0	0	0	0	0	0	0	0	0	0
DG8	0	1.4	0.7	0	0	0	0	0	0	0	0	0
DG9	0.1	7.1	0.8	0	0	0	0	0	0	0	0	0
DG10	0	0	0	0	0	0	0	0	0	12.0	144.2	4.9

7.6 CIP Opinion of Probable Costs

Opinions of probable construction costs were primarily estimated based on estimated quantity of storm drain pipe and catch basins and manholes added or replaced by each CIP. These quantities were also used to estimate costs associated with pipe removal, AC pavement removal, and AC pavement restoration. Traffic control, dewatering, and excavation shoring/bracing costs were also estimated. Based on the percentages of the construction subtotal, mobilization/demobilization, bonds and insurance, contractor overhead and profit, and construction contingency were estimated. Engineering services and construction management was estimated by calculating a percentage of the total probably construction cost estimate. A summary of estimated costs for opinion of probable construction, engineering/construction management, and permitting & environmental compliance for each CIP and Drainage Group is presented in **Table 7.2**.

Table 7.2 Cost Estimate Summary by CIP and Drainage Group

Drainage Group	CIP	Opinion of Probable Construction Cost	Engineering/Construction Management	Environmental Compliance & Permitting	Total
DG1	DG1.1	$663,000	$225,000	$10,000	**$898,000**
DG2	DG2.1B	$1,485,000	$505,000	$5,000	$1,995,000
	DG2.2	$1,236,000	$420,000	$25,000	$1,681,000
	DG2.2B	$863,000	$293,000	$5,000	$1,161,000
	DG 2 Subtotals	$3,584,000	$1,218,000	$35,000	**$4,837,000**
DG3	DG3.1A	$2,295,000	$780,000	$60,000	$3,135,000
	DG3.1B	$1,560,000	$530,000	$45,000	$2,135,000
	DG3.2A	$1,685,000	$573,000	$3,000	$2,261,000
	DG3.2B	$3,545,000	$1,205,000	$50,000	$4,800,000
	DG3.2C	$718,000	$244,000	$80,000	$1,042,000
	DG3.3A	$331,000	$112,000	$60,000	$503,000
	DG3.3B	$1,182,000	$402,000	$50,000	$1,634,000
	DG 3 Subtotals	$11,316,000	$3,846,000	$348,000	**$15,510,000**
DG4	DG4.1A	$2,409,000	$819,000	$5,000	$3,233,000
	DG4.1B	$1,779,000	$605,000	$2,000	$2,386,000
	DG4.2	$1,280,000	$435,000	$10,000	$1,725,000
	DG4.3	$1,332,000	$453,000	$3,000	$1,788,000
	DG 4 Subtotals	$6,800,000	$2,312,000	$20,000	**$9,132,000**
DG5	DG5.1	$5,390,000	$1,833,000	$40,000	$7,263,000
	DG5.2	$2,277,000	$774,000	$5,000	$3,056,000
	DG5.3	$1,273,000	$433,000	$5,000	$1,711,000
	DG5.4	$3,024,000	$1,028,000	$8,000	$4,060,000
	DG5.5	$519,000	$176,000	$2,000	$697,000
	DG 5 Subtotals	$12,483,000	$4,244,000	$60,000	**$16,787,000**
DG6	DG6.1	$942,000	$320,000	$10,000	**$1,272,000**
DG7	DG7.1	$243,000	$83,000	$60,000	**$386,000**

Drainage Group	CIP	Opinion of Probable Construction Cost	Engineering/Construction Management	Environmental Compliance & Permitting	Total
DG8	DG8.1	$554,000	$188,000	$60,000	**$802,000**
DG9	DG9.1	$696,000	$237,000	$40,000	**$973,000**
DG10	DG10.1	$1,692,000	$575,000	$80,000	**$2,347,000**

8. Evaluation and Prioritization of Capital Improvement Projects (CIP)

Data Collection → Model → Analysis → Project → ***Priority*** → Phase

8.1 Prioritization Framework

To support in the development of drainage enhancement projects for the Storm Drain Master Plan, a list of project criteria has been developed to support in proposed project prioritization, and to be utilized as a tool to highlight opportunities for grant funding to support further project development. Project criteria were determined in collaboration with the City. **Table 8.1** below presents the weighted project criteria.

Table 8.1 Prioritization Scoring Criteria

Prioritization Criteria	Criteria Description	Evaluation Criteria	Score	Criteria Scoring Weight[2]
Health and Safety				
Impact to Life / Access to Critical Roads	The risk of human life and safety the proposed project would mitigate. Do current flooding extents limit access to critical roads? Critical roads can be roads that allow access into and out of the City and roads for first responders to hospitals.	Flooding extent is reduced to shoulder of arterials. OR Flooding extent is reduced to ½ driving lane on collector.	Meets Criteria = 1 Does not meet criteria = 0	5
Private and Public Property				
Impact to Property / Flooding near Houses	The risk to property the proposed project would mitigate. Is flooding extent reduced to the right-of-way by the proposed project?	Flooding extent does not intersect with private property lines.	Meets Criteria = 1 Does not meet criteria = 0	4
Environment				

[2] Criteria Scoring Weight:
1 – Least Important
5 – Most Important

Prioritization Criteria	Criteria Description	Evaluation Criteria	Score	Criteria Scoring Weight[2]
Water Quality	Does the proposed project have opportunities to address water quality?	At least one catch basin insert in proposed project.	Meets Criteria = 1 Does not meet criteria = 0	2
Regulatory Protected Areas	What permits are anticipated for the project implementation?	Project is not in a floodplain or a natural, undisturbed area.	Meets Criteria = 1 Does not meet criteria = 0	3
Special Species Protection (ESA potential)	Does project have the potential to encounter protected species?	Project is not on the beach, does not discharge on the beach, or is in a natural, undisturbed area.	Meets Criteria = 1 Does not meet criteria = 0	2
Trash Capture	Opportunities to incorporate trash capture devices.	Feasibility of installing at least one trash capture device within the proposed CIP (catch basin or pipe end).	Meets Criteria = 1 Does not meet criteria = 0	2
Feasibility				
Proposed Pipe under Pavement	Do project components cross under pavement?	No storm drain pipes under pavement with flooding/surcharging junctions.	Meets Criteria = 1 Does not meet criteria = 0	4
Existing Pipe under Private Property	Do existing storm drain pipes run under private property parcels? Does the CIP propose a redundant conveyance in City's right-of-way.	Existing storm drain pipes are under private property. Proposed CIP provides redundant conveyance in right-of-way.	Meets Criteria = 1 Does not meet criteria = 0	3
Infrastructure Properties				
Condition	Overall condition of the existing stormwater infrastructure.	Stormwater infrastructure in critical condition or has emerging issues.	1 – Critical 0.5 – Emerging 0 - Good	5

8.2 Application of Prioritization Criteria

The mitigation of flooding in one area of a drainage group could cause additional flooding in another area of a drainage group. For example, any conveyance upgrade to increase hydraulic capacity such as a larger diameter pipe in an upstream area of a drainage group could cause unintended flooding downstream. To reduce the risk of unintended flooding caused by improvements and to support the sequencing approach further illustrated in Section 9, the prioritization scoring was applied to full drainage groups as opposed to individuals CIPs within a drainage group.

The prioritization scoring based on the criteria presented in **Table 8.1** was applied primarily by review of the modelling results, locations of proposed improvements, and other available GIS data:

Health and Safety – To evaluate if a potential CIP could mitigate the risk of flooding to health and safety, the maps of the drainage groups were reviewed to determine if Highway 101 or major arterials connecting residential areas to Highway 101 are present. Then under existing conditions, the modeled flood extent under a 10-year, 24-hour durations storm event in the drainage group was reviewed to determine if the flooding extends into these critical roads. Lastly, under proposed conditions, the modeled flood extent under the same storm event was reviewed to evaluate if the change in flood extent is reduced based on the evaluation criteria above.

Private and Public Property – The maps of the drainage groups were reviewed to determine if private or public property are present. Then under existing conditions, the modeled flood extent under a 10-year, 24-hour durations storm event in the drainage group was reviewed to determine if the flooding intersects with the parcels of private and public property. Lastly, under proposed conditions, the modeled flood extent under the same storm event was reviewed to evaluate if the change in flood extent is reduced based on the evaluation criteria above.

Water Quality – To determine if the CIPs within a drainage group had opportunities to improve water quality, the maps of the drainage groups were reviewed to determine the presence of one proposed catch basin. A new catch basin offers the opportunity to install a new catch basin insert designed to treat water before entering the storm drain system.

Regulatory Protected Areas – The maps of the drainage groups were reviewed to identify the presence of natural, undisturbed areas and floodplains intersecting with the potential CIPs. The permitting process for CIPs within this drainage group would take longer and be more challenging.

Special Species Protection – The maps of the drainage groups were reviewed to identify if potential CIPs were on a beach, discharge to a beach, or were in a natural, undisturbed area. Any drainage groups with CIPs that meet these criteria could require Endangered Species Act (ESA) permitting which could extend the complexity and duration of the environmental permitting process.

Trash Capture – To determine if the CIPs within a drainage group had opportunities to incorporate trash capture devices in accordance with the Trash Provisions to the NPDES Phase II MS4 permit (Section 2.2.2), the maps of the drainage groups were reviewed to determine the presence of one proposed catch basin. A new catch basin offers the opportunity to install a trash capture device.

Proposed Pipe under Pavement – The maps of the drainage groups were reviewed to identify if the potential CIPs were located in the paved right-of-way. These CIPs would be slightly more challenging to construct than CIPs in parks because they would require traffic control and patch paving.

Existing Pipe under Private Property – The maps of the drainage groups were reviewed to determine if the existing pipes ran under private property parcels and the proposed CIPs provided redundant conveyance along the City's right-of-ways.

Condition – The maps of the drainage groups were reviewed to determine if there were existing stormwater infrastructure assessed to have emerging issues or in critical condition during field survey. Drainage groups with CIPs that propose replacement of this infrastructure scored higher in the prioritization.

8.3 CIP Prioritization Results

8.3.1 Drainage Group 1

Drainage Group 1 includes CIP DG1.1. Based on the prioritization scoring criteria, Drainage Group 1 scores 15/30. A key map of the CIP in Drainage Group 1 is presented in **Figure 8.1**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.2**.

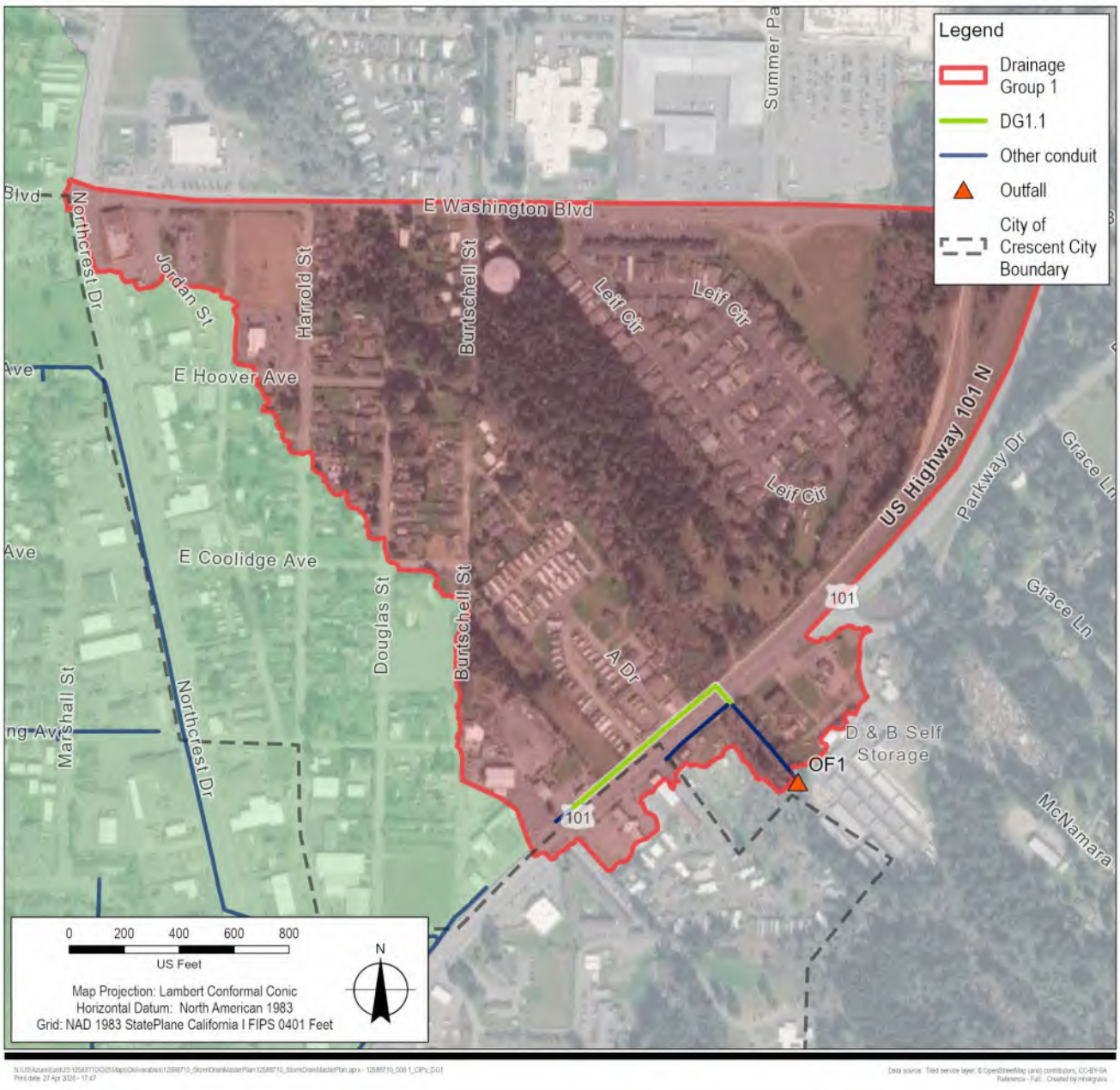


Figure 8.1 *Drainage Group 1 – CIP Key Map*

Table 8.2 *Drainage Group 1 Prioritization Score*

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Flooding extent reduced on Highway 101.	5
Impact to Property / Flooding near Houses	Flood extent does not intersect with private property lines.	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2

Prioritization Criteria	Notes/Comments	Weighted Score
Regulatory Protected Areas	Proposed project drains to regulatory floodplain (Elk Creek basin).	0
Special Species Protection (ESA potential)	No outfalls on beaches.	2
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	All proposed improvements are located under pavement.	0
Existing Pipe under Private Property	No existing pipes are located under private property.	0
Condition	All existing drainage features are in good condition.	0
	TOTAL PRIORITIZATION SCORE	**15/30**
	Opinion of Probable Construction Cost	$663,000
	Engineering/Construction Management	$225,000
	Environmental Compliance & Permitting	$10,000
	TOTAL COST	**$898,000**

8.3.2 Drainage Group 2

Drainage Group 2 includes CIP DG2.1B, DG2.2, and DG2.2B. Based on the prioritization scoring criteria, Drainage Group 2 scores 21.5/30. A key map of the CIPs in Drainage Group 2 is presented in **Figure 8.2**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.3**.

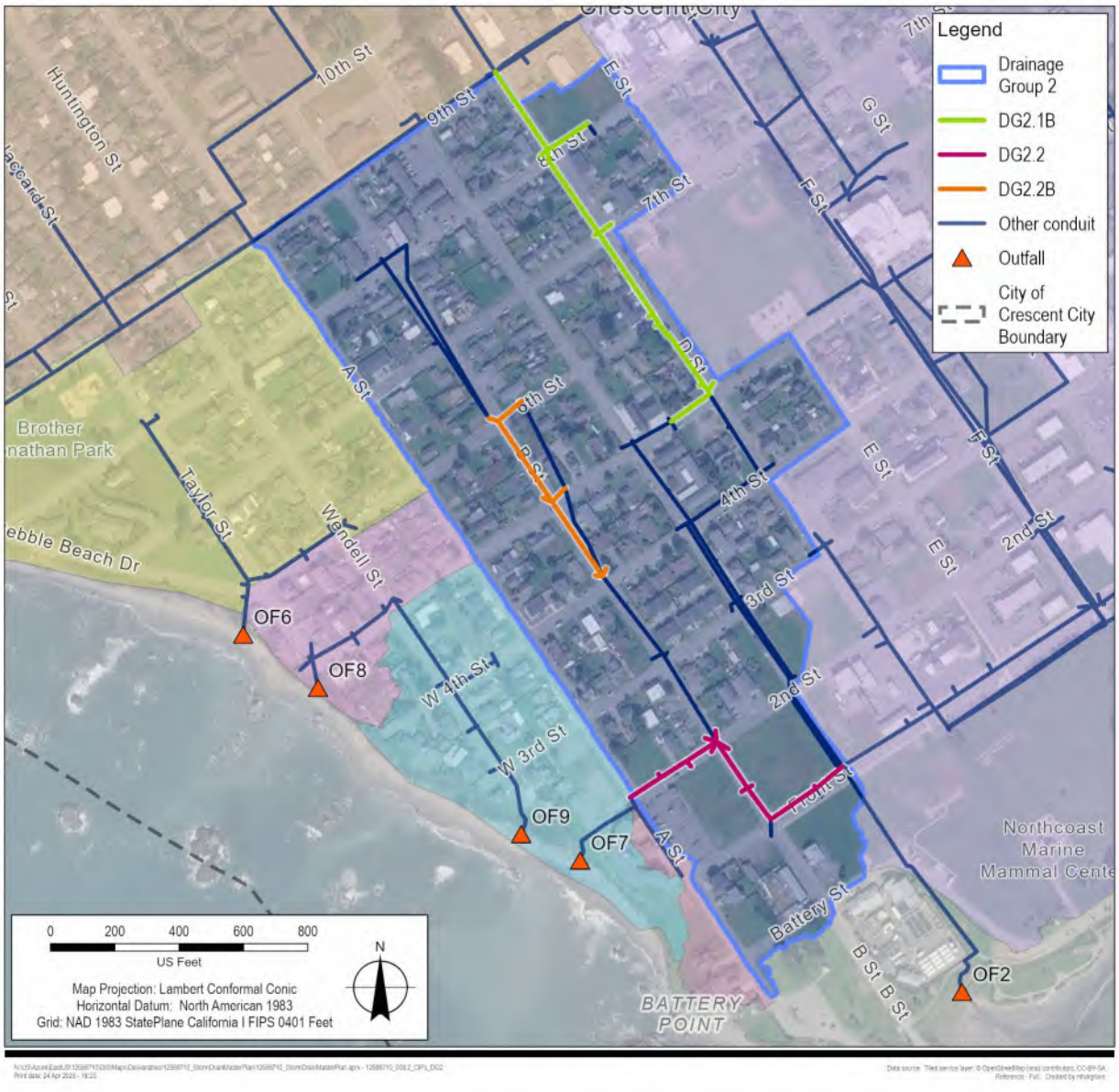


Figure 8.2 Drainage Group 2 – CIP Key Map

Table 8.3 Drainage Group 2 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Flooding elimination on 9th St, a major arterial connecting residential areas to Highway 101.	5
Impact to Property / Flooding near Houses	Flood extent does not intersect with private property lines.	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Project does not intersect with natural, undisturbed area.	3
Special Species Protection (ESA potential)	Drainage Group discharges onto a beach.	0

Prioritization Criteria	Notes/Comments	Weighted Score
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	All proposed improvements are located under pavement.	0
Existing Pipe under Private Property	Existing storm drain pipes are under private property. Proposed CIP provides redundant conveyance in right-of-way.	3
Condition	Some existing drainage features were assessed to have emerging issues.	2.5
	TOTAL PRIORITIZATION SCORE	**21.5/30**
	Opinion of Probable Construction Cost	$3,584,000
	Engineering/Construction Management	$1,218,000
	Environmental Compliance & Permitting	$35,000
	TOTAL COST	**$4,837,000**

8.3.3 Drainage Group 3

Drainage Group 3 includes CIP DG3.1A, DG3.1B, DG3.2A, DG3.2B, DG3.2C, DG3.3A, and DG3.3B. Based on the prioritization scoring criteria, Drainage Group 3 scores 18/30. A key map of the CIPs in Drainage Group 3 is presented in **Figure 8.3**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.4**.

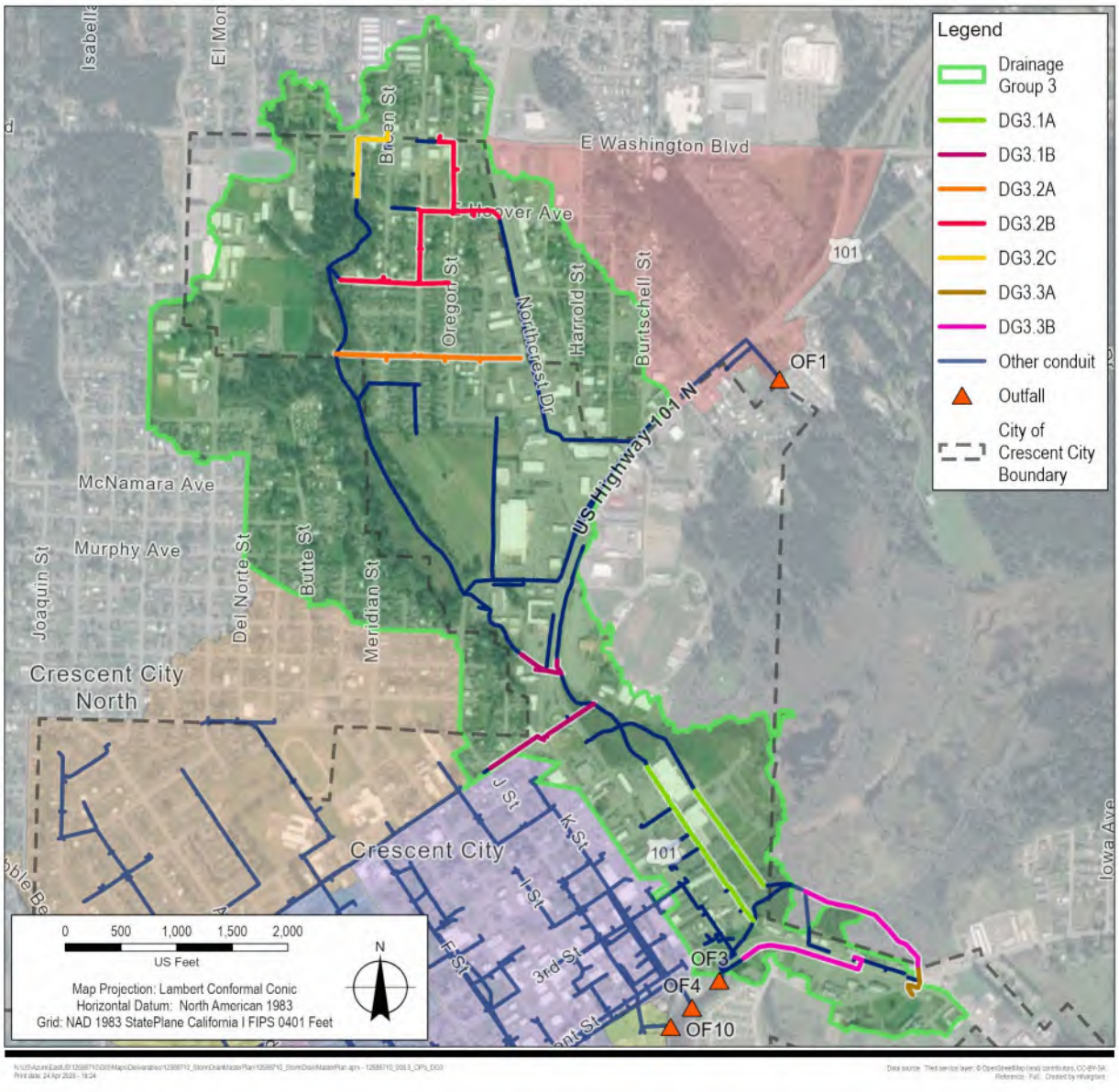


Figure 8.3 Drainage Group 3 – CIP Key Map

Table 8.4 Drainage Group 3 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Flooding extent along Highway 101 North through downtown nearly eliminated; minor flooding is projected to continue near the intersection with 5th St.	5
Impact to Property / Flooding near Houses	Flood extent does not intersect with private property lines.	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Proposed project drains to regulatory floodplain (Elk Creek basin).	0

Prioritization Criteria	Notes/Comments	Weighted Score
Special Species Protection (ESA potential)	Drainage Group discharges into a natural, undisturbed area.	0
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	All proposed improvements are located under pavement.	0
Existing Pipe under Private Property	Existing storm drain pipes are under private property. Proposed CIP remains under private property.	0
Condition	Some existing drainage features were assessed to be in critical condition.	5
TOTAL PRIORITIZATION SCORE		**18/30**
Opinion of Probable Construction Cost		$11,316,000
Engineering/Construction Management		$3,846,000
Environmental Compliance & Permitting		$348,000
TOTAL COST		**$15,510,000**

8.3.4 Drainage Group 4

Drainage Group 4 includes CIP DG4.1A, DG4.1B, DG4.2, and DG4.3. Based on the prioritization scoring criteria, Drainage Group 4 scores 24/30. A key map of the CIPs in Drainage Group 4 is presented in **Figure 8.4**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.5**.

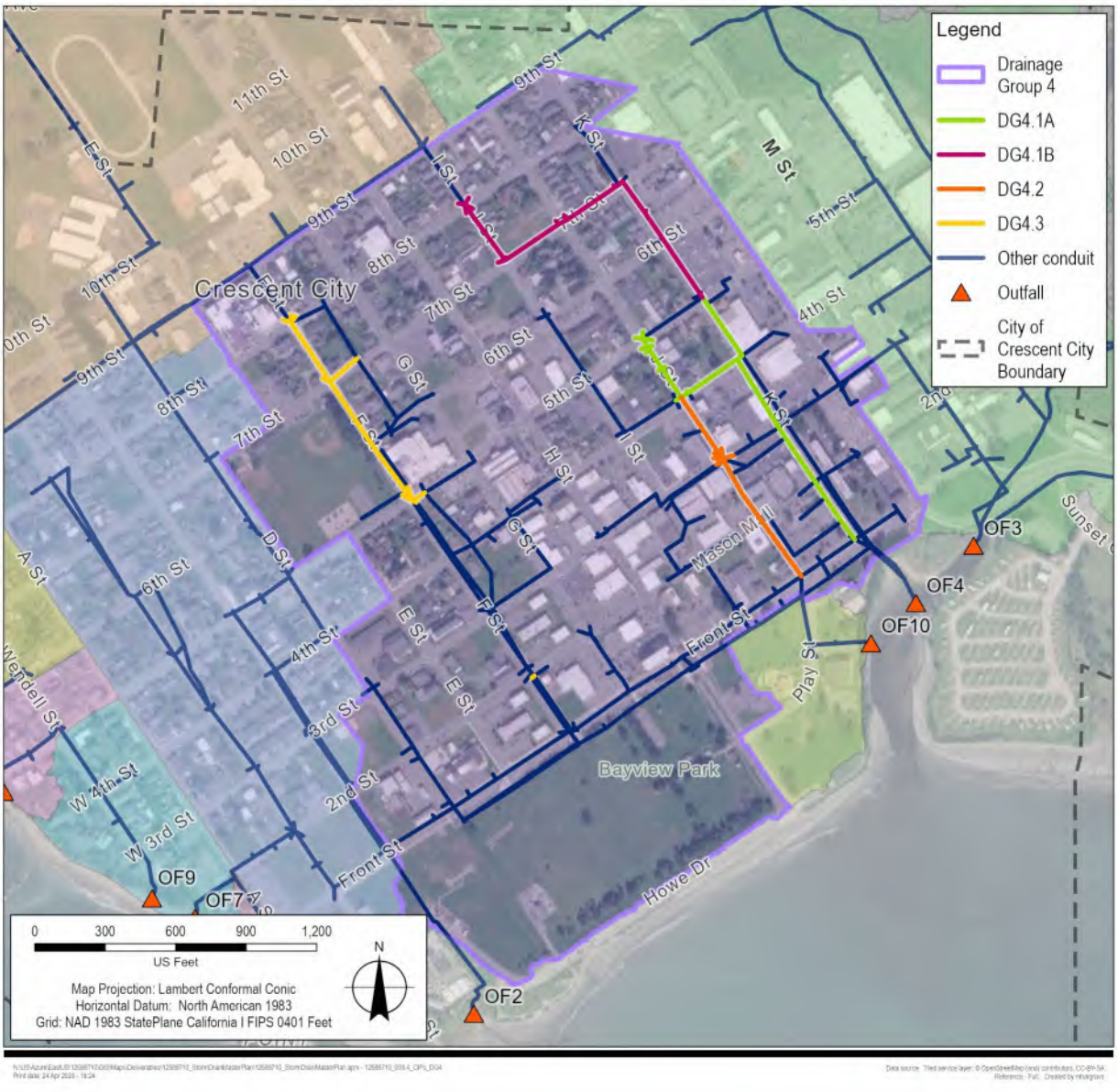


Figure 8.4 Drainage Group 4 – CIP Key Map

Table 8.5 Drainage Group 4 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Flooding extent along multiple arterials connected to Highway 101 and downtown are significantly reduced or eliminated.	5
Impact to Property / Flooding near Houses	Flooding extent under existing conditions extensively intersects with private property. Proposed improvements significantly reduce the flooding extent.	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Project does not intersect with natural, undisturbed area.	3

Prioritization Criteria	Notes/Comments	Weighted Score
Special Species Protection (ESA potential)	Drainage Group discharges onto a beach.	0
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	All proposed improvements are located under pavement.	0
Existing Pipe under Private Property	Existing storm drain pipes are under private property. Proposed CIP provides redundant conveyance in right-of-way.	3
Condition	Some existing drainage features were assessed to be in critical condition.	5
TOTAL PRIORITIZATION SCORE		**24/30**
Opinion of Probable Construction Cost		$6,800,000
Engineering/Construction Management		$2,312,000
Environmental Compliance & Permitting		$20,000
TOTAL COST		**$9,132,000**

8.3.5 Drainage Group 5

Drainage Group 5 includes CIP DG5.1, DG5.2, DG5.3, DG5.4, and DG5.5. Based on the prioritization scoring criteria, Drainage Group 5 scores 24/30. A key map of the CIPs in Drainage Group 5 is presented in **Figure 8.5**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.6**.

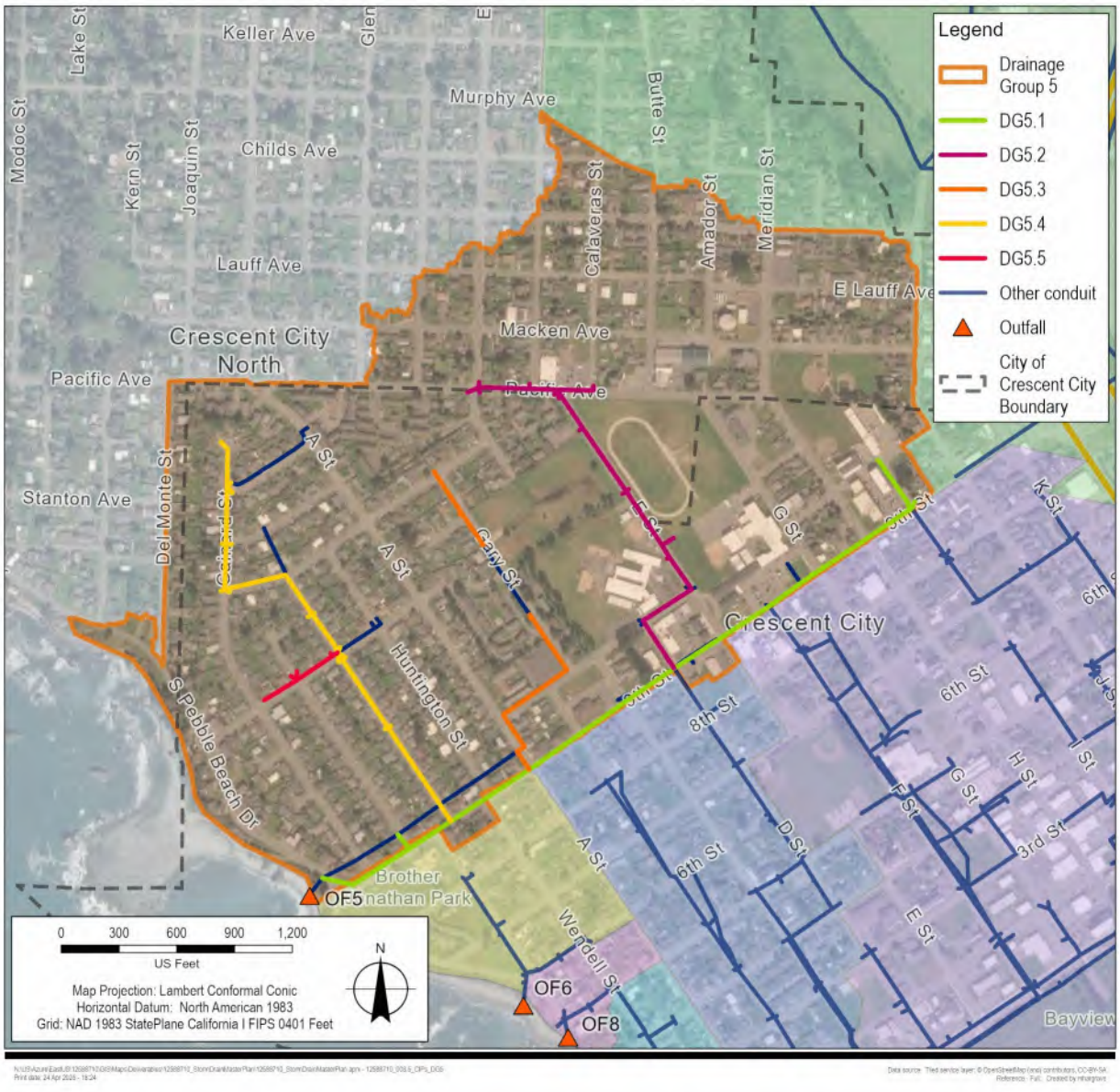


Figure 8.5 Drainage Group 5 – CIP Key Map

Table 8.6 Drainage Group 5 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Flooding elimination on 9th St, a major arterial connecting residential areas to Highway 101. Flooding is also eliminated along Pacific Ave and E St, major collectors to 9th Ave.	5
Impact to Property / Flooding near Houses	Flooding extent under existing conditions extensively intersects with private property. Proposed improvements significantly reduce the flooding extent.	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Project does not intersect with natural, undisturbed area.	3

Prioritization Criteria	Notes/Comments	Weighted Score
Special Species Protection (ESA potential)	Drainage Group discharges onto a beach.	0
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	All proposed improvements are located under pavement.	0
Existing Pipe under Private Property	Existing storm drain pipes are under private property. Proposed pipes provides redundant conveyance in right-of-way.	3
Condition	Some existing drainage features were assessed to be in critical condition.	5
	TOTAL PRIORITIZATION SCORE	**24/30**
	Opinion of Probable Construction Cost	$12,483,000
	Engineering/Construction Management	$4,244,000
	Environmental Compliance & Permitting	**$120,000**
	TOTAL COST	**$16,787,000**

8.3.6 Drainage Group 6

Drainage Group 6 includes CIP DG6.1. Based on the prioritization scoring criteria, Drainage Group 6 scores 11/30. A key map of the CIP in Drainage Group 6 is presented in **Figure 8.6**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.7**.

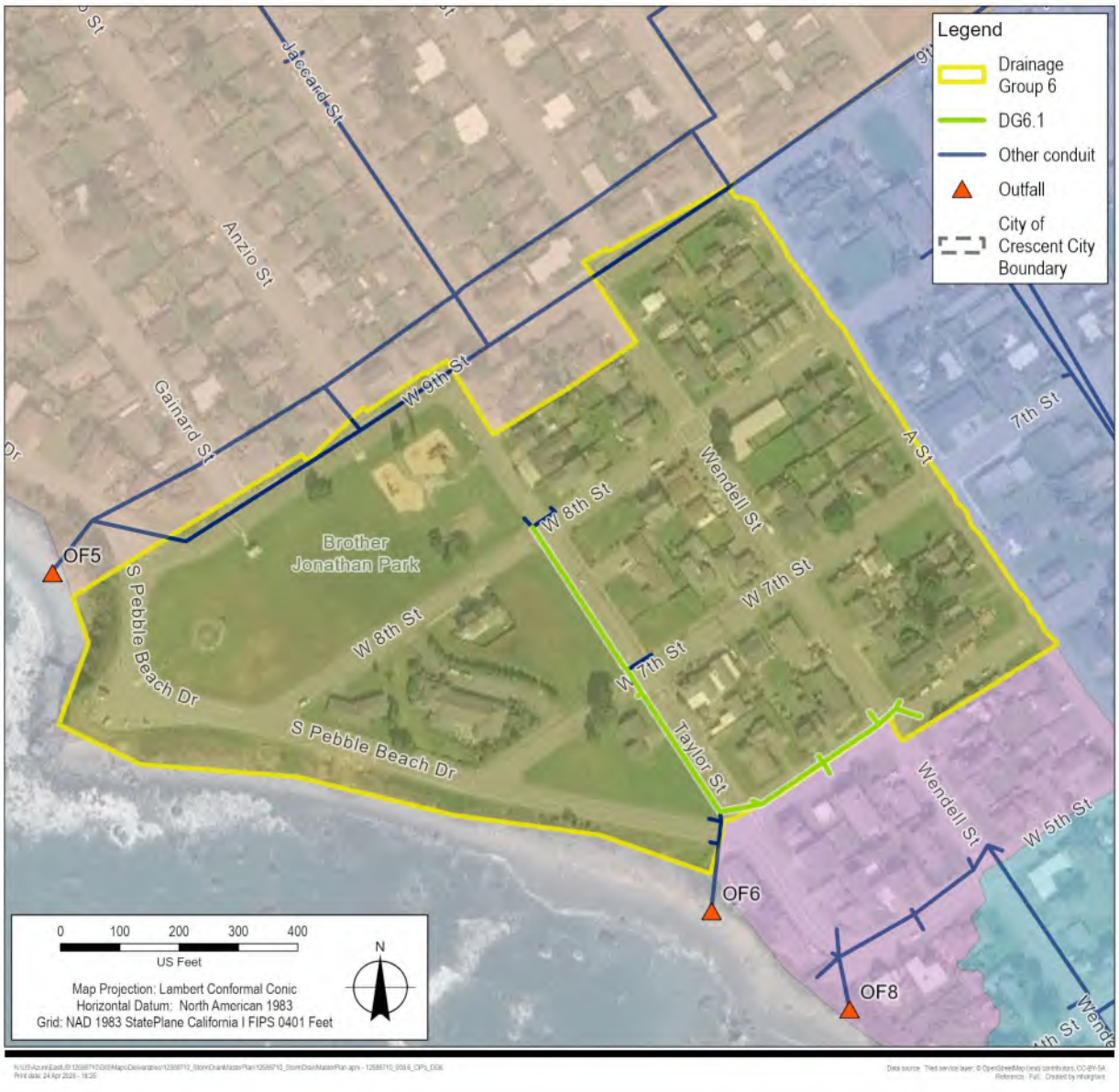


Figure 8.6 Drainage Group 6 – CIP Key Map

Table 8.7 Drainage Group 6 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Though flooding is projected to occur under existing conditions, there are no major arterials nor other critical roads.	0
Impact to Property / Flooding near Houses	Proposed improvements eliminates the flooding extent projected to intersect with private property under existing conditions	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Project does not intersect with natural, undisturbed area.	3

Prioritization Criteria	Notes/Comments	Weighted Score
Special Species Protection (ESA potential)	Drainage Group discharges onto a beach.	0
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	Most proposed improvements are located under pavement.	0
Existing Pipe under Private Property	Existing pipe to outfall is aligned under private property. No proposed pipes provide redundant conveyance or realigns outfall.	0
Condition	No existing infrastructure is in emerging nor critical condition.	0
	TOTAL PRIORITIZATION SCORE	**11/30**
	Opinion of Probable Construction Cost	$942,000
	Engineering/Construction Management	$320,000
	Environmental Compliance & Permitting	$10,000
	TOTAL COST	**$1,272,000**

8.3.7 Drainage Group 7

Drainage Group 7 includes CIP DG7.1. Based on the prioritization scoring criteria, Drainage Group 7 scores 12/30. A key map of the CIP in Drainage Group 7 is presented in **Figure 8.7**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.8**.

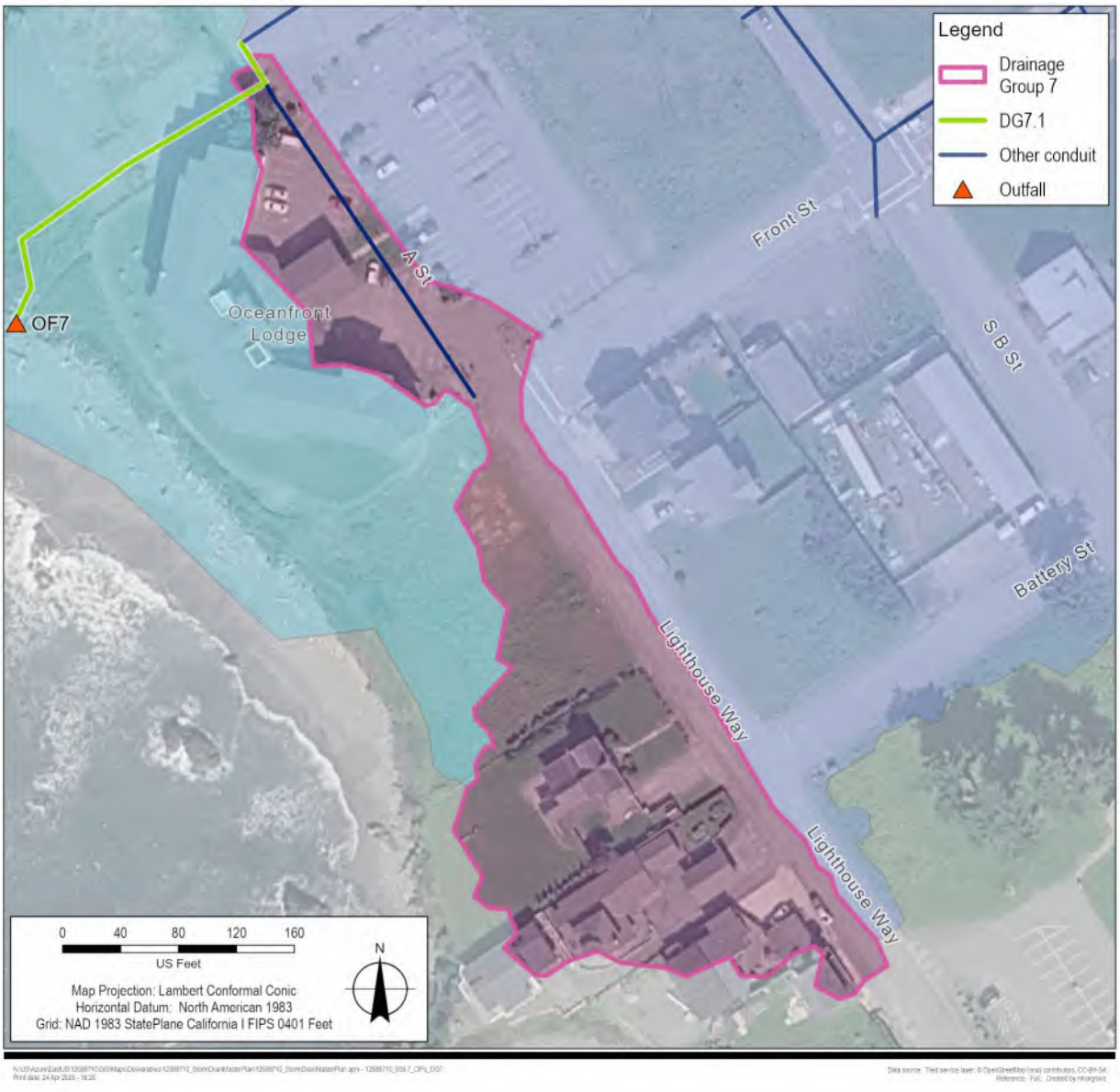


Figure 8.7 Drainage Group 7 – CIP Key Map

Table 8.8 Drainage Group 7 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	No flooding is projected under existing conditions.	0
Impact to Property / Flooding near Houses	No flooding is projected under existing conditions.	0
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Project does not intersect with natural, undisturbed area.	3
Special Species Protection (ESA potential)	Drainage Group discharges onto a beach.	0

Prioritization Criteria	Notes/Comments	Weighted Score
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	Some proposed improvements are located under pavement.	0
Existing Pipe under Private Property	Existing piping are located under private property. No proposed pipes provide redundant conveyance.	0
Condition	Most existing infrastructure is in critical condition.	5
	TOTAL PRIORITIZATION SCORE	**12/30**
	Opinion of Probable Construction Cost	$243,000
	Engineering/Construction Management	$83,000
	Environmental Compliance & Permitting	$60,000
	TOTAL COST	**$386,000**

8.3.8 Drainage Group 8

Drainage Group 8 includes CIP DG8.1. Based on the prioritization scoring criteria, Drainage Group 8 scores 16/30. A key map of the CIP in Drainage Group 8 is presented in **Figure 8.8**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.9**.

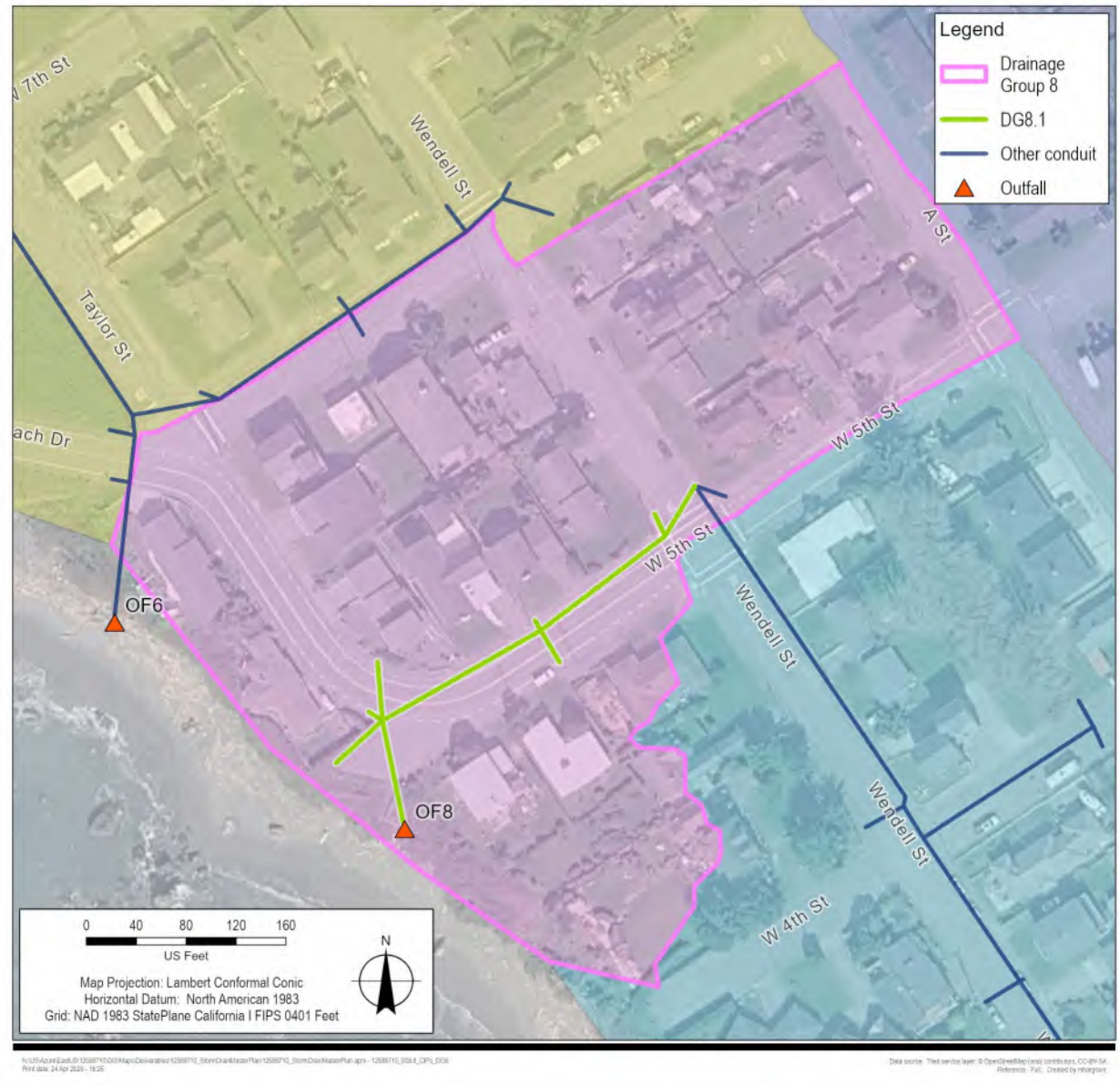


Figure 8.8 Drainage Group 8 – CIP Key Map

Table 8.9 Drainage Group 8 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Though flooding is projected under existing conditions, the roads are not significant arterials nor critical roads.	0
Impact to Property / Flooding near Houses	Flooding extent is eliminated from private property under proposed conditions.	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Project does not intersect with natural, undisturbed area.	3
Special Species Protection (ESA potential)	Drainage Group discharges onto a beach.	0

Prioritization Criteria	Notes/Comments	Weighted Score
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	Most proposed improvements are located under pavement.	0
Existing Pipe under Private Property	No existing/proposed pipes are located under private property.	0
Condition	Some existing infrastructure is in critical condition.	5
	TOTAL PRIORITIZATION SCORE	**16/30**
	Opinion of Probable Construction Cost	$554,000
	Engineering/Construction Management	$188,000
	Environmental Compliance & Permitting	$60,000
	TOTAL COST	**$802,000**

8.3.9 Drainage Group 9

Drainage Group 9 includes CIP DG9.1. Based on the prioritization scoring criteria, Drainage Group 9 scores 16/30. A key map of the CIP in Drainage Group 9 is presented in **Figure 8.9**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.10**.

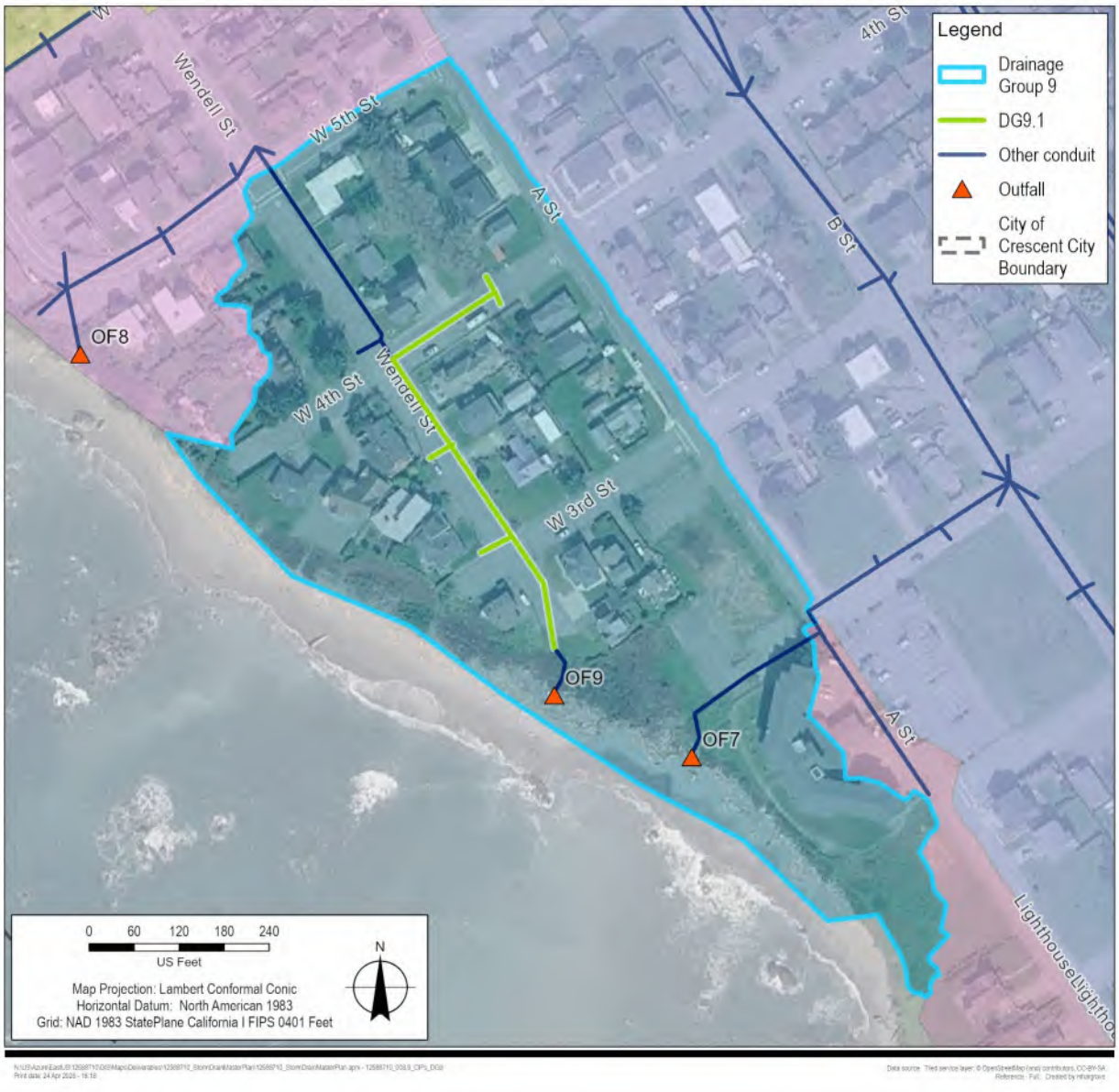


Figure 8.9 Drainage Group 9 – CIP Key Map

Table 8.10 Drainage Group 9 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Though flooding is projected under existing conditions, the roads are not significant arterials nor critical roads.	0
Impact to Property / Flooding near Houses	Flooding extent is eliminated from private property under proposed conditions.	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Project does not intersect with natural, undisturbed area.	3
Special Species Protection (ESA potential)	Drainage Group discharges onto a beach.	0

Prioritization Criteria	Notes/Comments	Weighted Score
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	Most proposed improvements are located under pavement.	0
Existing Pipe under Private Property	No existing/proposed pipes are located under private property.	0
Condition	Some existing infrastructure is in critical condition.	5
	TOTAL PRIORITIZATION SCORE	**16/30**
	Opinion of Probable Construction Cost	$696,000
	Engineering/Construction Management	$237,000
	Environmental Compliance & Permitting	$40,000
	TOTAL COST	**$973,000**

8.3.10 Drainage Group 10

Drainage Group 10 includes CIP DG10.1. Based on the prioritization scoring criteria, Drainage Group 10 scores 16/30. A key map of the CIP in Drainage Group 10 is presented in **Figure 8.10**. The summary of the weighted prioritization scoring criteria, opinion of probable construction cost, engineering/construction management cost, and permitting/environmental compliance cost is presented in **Table 8.11**.



Figure 8.10 Drainage Group 10 – CIP Key Map

Table 8.11 Drainage Group 10 Prioritization Score

Prioritization Criteria	Notes/Comments	Weighted Score
Impact to Life / Access to Critical Roads	Though no flooding in drainage group is projected under existing conditions, it would be connected to Drainage Group 4 to relieve its significant flooding along arterials and critical roads under existing conditions. Flooding is nearly eliminated under proposed conditions.	5
Impact to Property / Flooding near Houses	Flooding extent is eliminated from private property under proposed conditions.	4
Water Quality	New drainage inlets offer the opportunity to install catch basin inserts.	2
Regulatory Protected Areas	Project does not intersect with natural, undisturbed area.	3
Special Species Protection (ESA potential)	Drainage Group discharges onto a beach.	0

Prioritization Criteria	Notes/Comments	Weighted Score
Trash Capture	New drainage inlets offer the opportunity to install trash capture devices.	2
Proposed Pipe under Pavement	Most proposed improvements are located under pavement.	0
Existing Pipe under Private Property	No existing/proposed pipes are located under private property.	0
Condition	No existing infrastructure is in critical condition or has an emerging issue.	0
	TOTAL PRIORITIZATION SCORE	**16/30**
	Opinion of Probable Construction Cost	$1,692,000
	Engineering/Construction Management	$575,000
	Permitting & Environmental Compliance	$80,000
	TOTAL COST	**$2,347,000**

8.4 Summary of Prioritization Outcomes

The prioritization analysis grouped the City's drainage groups into **High**, **Medium**, and **Low** priority levels based on total weighted scores derived from flooding impacts, infrastructure condition, regulatory considerations, and feasibility. These prioritization levels provide a clear, systemwide framework for sequencing investments and focusing near-term resources on projects that deliver the greatest benefit to public safety, property protection, and stormwater system performance. **Table 8.12** presents a summary of the prioritization scoring by drainage group.

High Priority Drainage Groups

Drainage Groups 5, 2, 4, and 3 were classified as High Priority, with total scores ranging from 18 to 24. These drainage groups consistently scored high in categories related to impacts to critical roadways and access, flooding near homes, and poor or deteriorating infrastructure condition. Drainage Group 5 ranked highest overall due to extensive flooding impacts affecting both private property and major arterial corridors, combined with multiple CIPs that significantly improve system capacity. Drainage Groups 2 and 4 also scored strongly as their proposed improvements substantially reduce flooding along key transportation routes and within dense residential and commercial areas. Drainage Group 3, while subject to greater regulatory constraints and feasibility challenges, remains a high priority due to widespread flooding along Highway 101 and the presence of aging infrastructure in critical condition.

Medium Priority Drainage Groups

Drainage Groups 8, 9, 10, and 1 were identified as Medium Priority, with total scores clustering around 15 to 16. These drainage groups generally experience localized flooding impacts that affect neighborhood streets and limited private property, but they do not consistently impact critical roadways or emergency access routes. While the proposed improvements in these areas are effective at reducing modeled flooding and often address aging infrastructure, the overall severity, extent, and consequences of flooding are lower relative to the high-priority drainage groups. As a result, these projects are well suited for implementation in later program phases or as funding opportunities become available.

Low Priority Drainage Groups

Drainage Groups 7 and 6 were categorized as Low Priority, with the lowest total scores in the prioritization framework. These drainage groups have relatively limited flooding impacts under existing conditions, minimal effects on critical transportation corridors or private property, and fewer infrastructure condition concerns compared to other areas of the

system. While improvements in these drainage groups provide localized benefits and may support long-term system resiliency, they do not currently warrant near-term implementation when compared to higher-risk areas elsewhere in the City.

Table 8.12 Drainage Group Prioritization Summary

Drainage Group	Weighted Prioritization Score									Final Assessment	
	Impact to Life / Access to Critical Roads	Impact to Property / Flooding near Houses	Water Quality	Regulatory Protected Areas	Special Species Protection (ESA potential)	Trash Capture	Proposed Pipe under Pavement	Existing Pipe under Private Property	Condition	TOTAL SCORE	Prioritization Level
DG5	5	4	2	3	0	2	0	3	5	24	**HIGH**
DG4	5	4	2	3	0	2	0	3	5	24	
DG2	5	4	2	3	0	2	0	3	2.5	21.5	
DG3	5	4	2	0	0	2	0	0	5	18	
DG8	0	4	2	3	0	2	0	0	5	16	MEDIUM
DG9	0	4	2	3	0	2	0	0	5	16	
DG10	5	4	2	3	0	2	0	0	0	16	
DG1	5	4	2	0	2	2	0	0	0	15	
DG7	0	0	2	3	0	2	0	0	5	12	LOW
DG6	0	4	2	3	0	2	0	0	0	11	

9. Recommended Phasing of Capital Improvement Program

Data Collection → Model → Analysis → Project → Priority → ***Phase***

9.1 Recommended CIP Phasing and Sequencing

The prioritization score and level assessed for each drainage group was used to inform the recommended phasing. As stated in Section 8, the prioritization was applied to full drainage groups as opposed to CIPs due to the hydraulic connectivity of CIPs within a drainage group. The recommended CIP sequencing within a drainage group phase factored in other considerations such as hydraulic constraints, constructability, and coordination with other CIPs.

The recommended drainage group phasing is divided into **Near-Term (Phase A), Mid-Term (Phase B),** and **Long-Term (Phase C)** projects.

9.1.1 Near-Term – Phase A

9.1.1.1 Drainage Group 10

CIP DG10.1 is recommended to be the first project in the Near-Term Phase. Although Drainage Group 10 was assessed to be medium priority based on the prioritization scoring criteria, the flood relief benefits of the proposed CIPs in high priority Drainage Group 2 and Drainage Group 4 are dependent on the improvements proposed under CIP DG10.1. In addition to an intertie between Drainage Group 10 and Drainage Group 2 and 4, the increase in hydraulic capacity under CIP DG10.1 would increase the downstream hydraulic capacity to convey stormwater to another outfall (OF10), providing significant relief for OF2 and OF4. Furthermore, the constructability and permitting complexity is anticipated to be lower than many other proposed CIPs and would provide the most benefit for the lowest cost compared to any other CIP.

9.1.1.2 Drainage Group 5

As the highest-ranking drainage group in the prioritization scoring (tied with Drainage Group 4), the CIPs proposed under Drainage Group 5 are recommended as the second set of projects in the Near-Term Phase. The new stormwater main along 9th St proposed under CIP DG5.1 intercepts stormwater from the upper reaches of Drainage Group 2 and 4 and re-routes it to OF5. This improvement alone would not only reduces flooding on a critical road connecting residential areas to Highway 101 (critical for health and safety/emerging vehicle access) but also provides additional flood relief to the Drainage Group 2 and 4. The existing outfall OF5 has sufficient capacity to convey the maximum projected stormwater rate from the upper reaches of these drainage groups under a 10-year, 24-hour storm event (present day). The recommended sequence of CIPs in each drainage group is primarily based on the “start downstream, then work upstream” best practice to ensure downstream capacity is sufficient for the proposed upstream improvements. However, to provide immediate flood relieve benefits to Drainage Group 4, some upstream CIPs are prioritized in the sequence. Based on this best practice and need for immediate flood relief to the downtown core (Drainage Group 4), the recommended sequencing of CIP construction in Drainage Group 5 is:

DG5.1 → DG5.2 → DG5.3 → DG5.4 → DG5.5

9.1.1.3 Drainage Group 4

As the highest-ranking drainage group in the prioritization scoring (tied with Drainage Group 5), the CIPs proposed under Drainage Group 4 are recommended as the third set of projects in the Near-Term Phase. As stated previously,

the CIPs in Drainage Group 5 are recommended for sequencing first because the projects provide of the benefits it provides for Drainage Group 4 in addition to Drainage Group 5. The improvements proposed under CIP DG 4.1A, DG4.1B, and DG4.2 would significantly reduce the remaining flooding in the downtown core and improve accessibility to and from the City's municipal facilities such as the fire station, police department, and public works during major storm events. The reduction of flooding as much as possible in Drainage Group 4 is high priority because many arterials connecting the City to Highway 101 run through the drainage group. To ensure downstream capacity is sufficient for the proposed upstream improvements, the "start downstream, then work upstream" best practice is recommended for CIP sequencing. The recommended sequencing of CIP construction in Drainage Group 4 is:

DG4.1A → DG4.1B → DG4.2 → DG4.3

9.1.2 Mid-Term – Phase B

9.1.2.1 Drainage Group 2

As the second highest-ranking drainage group in the prioritization scoring, the CIPs proposed under Drainage Group 2 are recommended as the first set of projects in the Mid-Term Phase. As stated previously, the CIPs in Drainage Group 5 are recommended for sequencing first because the projects provide of the benefits it provides for Drainage Group 2 in addition to Drainage Group 5. The reduction of flooding as much as possible in Drainage Group 2 is high priority because many arterials connecting the City to Highway 101 run through the drainage group. Furthermore, the improvements proposed under CIP DG2.1B, DG2.2, and DG2.2B would significantly reduce the risk of flooding to private property the residential areas in Drainage Group 2. Following the best practices discussed for the sequencing of the CIPs in other drainage groups, the recommended sequencing of CIP construction in Drainage Group 2 is:

DG2.2 → DG2.1B → DG2.2B

9.1.2.2 Drainage Group 3

As the third highest-ranking drainage group in the prioritization scoring, the CIPs proposed under Drainage Group 3 are recommended as the second set of projects in the Mid-Term Phase. The CIPs proposed in Drainage Group 3 are of high priority because they would significantly reduce the flooding risk on Highway 101, which serves as a major route to the County's primary medical facilities and for evacuation. The CIPs would also reduce flooding in residential and commercial areas along Hoover Ave and Harding Ave in the northern jurisdiction of the City and key grocery stores/pharmacies like Safeway and Rite Aid in the downtown area. The recommended sequence of CIPs in each drainage group is primarily based on the "start downstream, then work upstream" best practice to ensure downstream capacity is sufficient for the proposed upstream improvements. However, to provide immediate flood relieve benefits to Drainage Group 3, some upstream CIPs are prioritized in the sequence. The best practice approach is less critical due to interconnected natural storage areas in between sections of the drainage group (i.e. Elk Creek and its tributaries) that detain stormwater. In addition, given that the proposed CIPs could increase the quantity of stormwater contributions to these natural storage areas during a storm event and intersect with a FEMA Special Flood Hazard Area, the environmental and hydraulic permitting process is expected to be more complex and require a longer timeline. Following the best practices discussed for the sequencing of the CIPs in other drainage groups, the recommended sequencing of CIP construction in Drainage Group 3 is:

DG3.1A → DG3.1B → DG3.2A → DG3.2B → DG3.2C → DG3.3A → DG3.3B

9.1.3 Long-Term – Phase C

The CIPs in the Long-Term Phase are generally lower priority projects with significantly smaller footprints than those in the Near-Term Phase. As many of these projects can happen in parallel and are not hydraulically interdependent, the recommended sequencing of CIPs in the Long-Term Phase is:

DG1.1, DG8.1, & DG9.1 → DG6.1 → DG7.1

9.1.3.1 Drainage Group 1

CIP DG1.1 is recommended to be the first project in the Long-Term Phase. Although Drainage Group 1 was assessed to be the lowest of the medium priority drainage groups in the prioritization scoring criteria, the flood relief benefits of the proposed CIP DG1.1 would significantly reduce flooding along Highway 101, which serves as a major route to the County's primary medical facilities and for evacuation. Given that the existing stormwater infrastructure in Drainage Group 1 is within Caltrans right-of-way, any improvements or modifications to the stormwater infrastructure falls under the jurisdiction of Caltrans. Coordination with Caltrans to advance this CIP to design and construction is recommended to occur in parallel with other projects in the Mid-Term Phase.

9.1.3.2 Drainage Group 8 and 9

Tied for the highest-ranking medium priority drainage groups, the CIP DG8.1 and CIP DG9.1 proposed under Drainage Group 8 and Drainage Group 9, respectively, are recommended to be implemented in parallel in the Long-Term Phase due their small extent and proximity to one another. Both drainage groups have existing stormwater infrastructure in poor condition and minor flooding of residential areas is observed in both drainage groups under existing conditions. However, these drainage groups ranked lower primarily due to their small catchment area, their location on the western edge of the City bordering the Pacific Ocean, and their lack of major arterials connecting residential areas to Highway 101 and the downtown core.

9.1.3.3 Drainage Group 6 and 7

As the lowest priority drainage groups, the CIPs proposed under Drainage Group 6 and Drainage Group 7 are recommended to be implemented last due to their small extent and lack of significant flooding. Although Drainage Group 7 scored 1 point higher than Drainage Group 6, the implementation of CIP DG6.1 is recommended for implementation before CIP DG7.1 because it would reduce minor flooding to residential areas. Though CIP DG7.1 would provide some minor flood relief to Drainage Group 2, the modelling results showed no flooding in Drainage Group 7 in existing conditions under a 10-year, 24-hour during storm event.

9.1.4 Summary of Recommended CIP Phasing and Sequencing

The recommended phasing of CIP implementation by drainage group is summarized in **Figure 9.1**. The recommended sequence of CIP implementation by drainage group for Phase A is summarized in Figure 9.2. The recommended sequence of CIP implementation for Phase B is summarized in **Figure 9.3**. The recommended sequence of CIP implementation for Phase C is summarized in **Figure 9.4**.

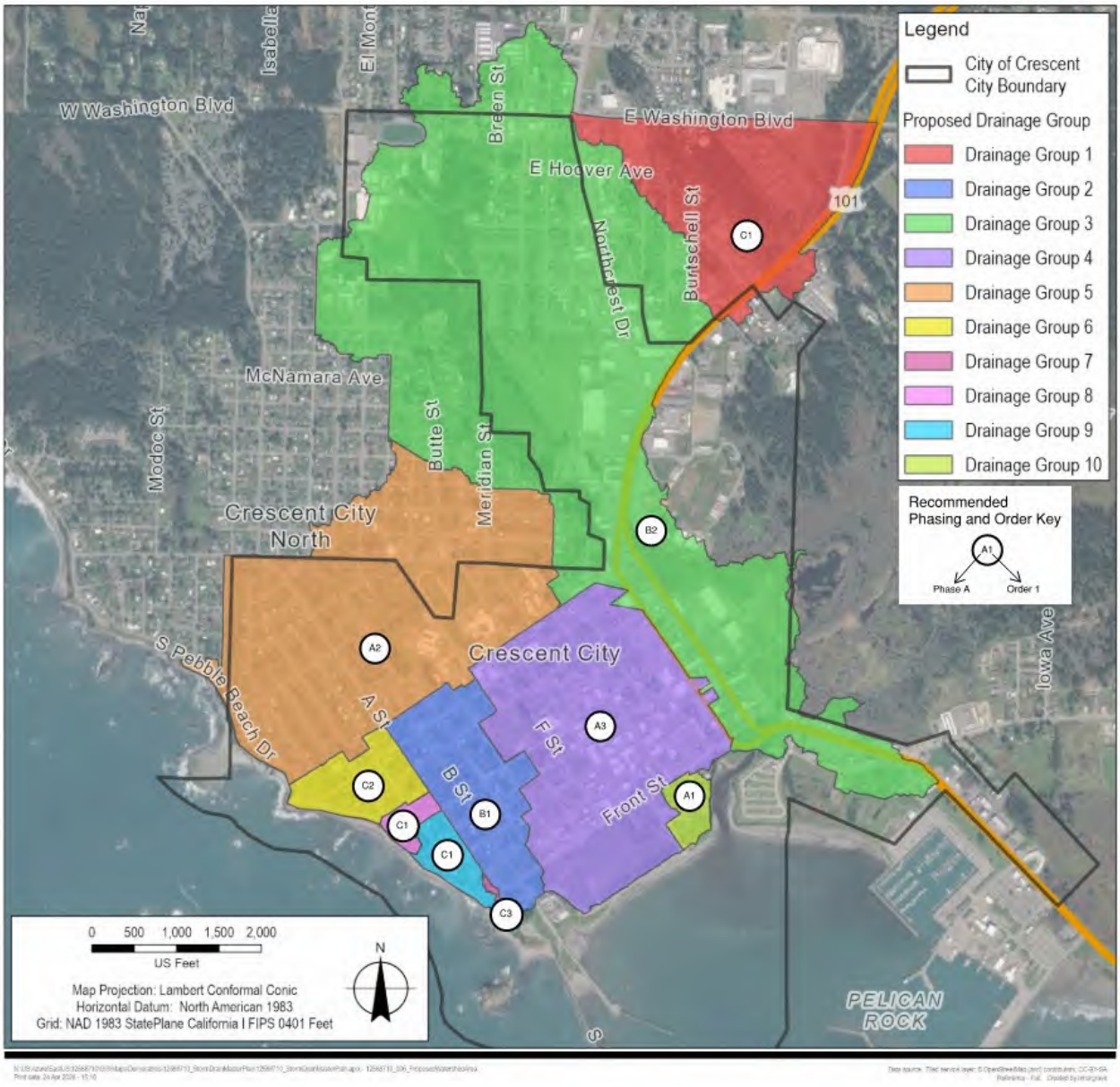


Figure 9.1 Recommended Phasing of CIP Implementation by Drainage Group

Near-Term Projects - Phase A

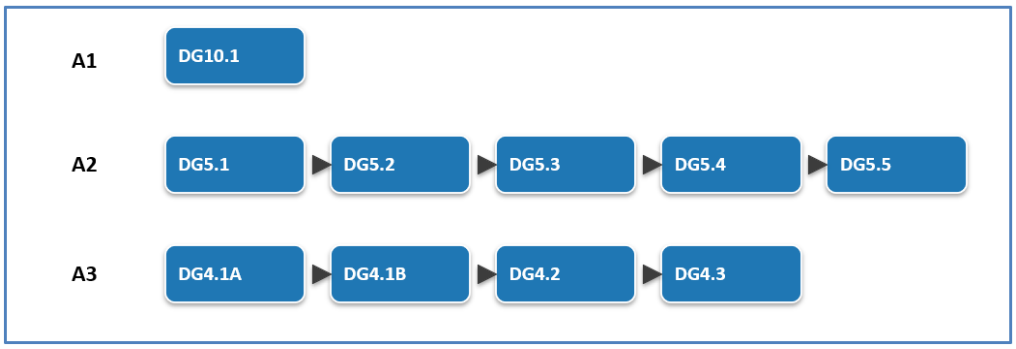


Figure 9.2 Phase A – Recommended Sequence of CIP Implementation

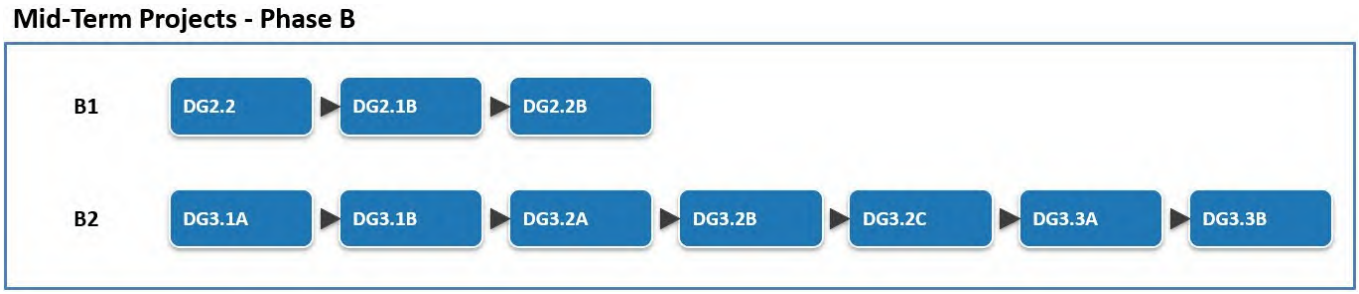


Figure 9.3 Phase B – Recommended Sequence of CIP Implementation

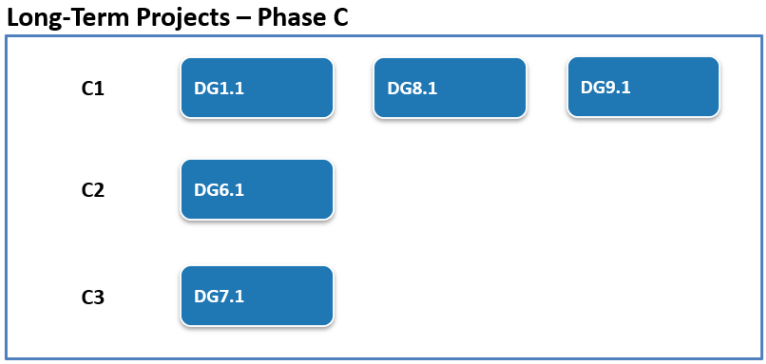


Figure 9.4 Phase C – Recommended Sequence of CIP Implementation

9.2 Conclusion and Recommendations

This Storm Drain Master Plan provides Crescent City with a robust framework for understanding existing stormwater system performance, identifying drainage deficiencies, and guiding long-term capital investment decisions. Through extensive field data collection, development of a citywide hydrologic and hydraulic model, and evaluation of existing and future climate-informed design storms, the study documents the locations, causes, and consequences of flooding across the City's drainage system.

The analyses confirm that flooding in Crescent City is driven by a combination of flat coastal topography, tidally influenced outfalls, undersized and aging infrastructure, and increasing precipitation intensity. Flooding impacts are most pronounced along critical transportation corridors, including Highway 101 and major arterials, as well as within older residential and commercial areas where limited hydraulic capacity and degraded infrastructure reduce system performance. The modeling results demonstrate that these vulnerabilities are expected to become more severe under mid- and late-century climate conditions if no improvements are implemented.

To address these challenges, the Master Plan identifies a set of CIPs developed through a deficiency analysis and refined through iterative modeling. The proposed projects collectively provide substantial reductions in flood extent, depth, and duration under present-day design storms and meaningfully improve system resilience under projected future conditions. The prioritization framework established in this plan integrates flooding impacts, public safety, infrastructure condition, regulatory considerations, feasibility, and equity to ensure that the most critical needs are addressed first.

Based on the prioritization results and hydraulic interdependencies, the recommended phasing strategy organizes implementation into near-term, mid-term, and long-term phases. This sequencing emphasizes early construction of projects that unlock downstream capacity, provide systemwide benefits, and reduce flooding along critical access routes and in high-risk neighborhoods. The accompanying planning-level cost estimates establish a realistic capital investment outlook and provide a foundation for budgeting, grant applications, and coordination with partnering agencies.

Overall, this Master Plan equips Crescent City with a clear, flexible roadmap to incrementally improve stormwater system performance, reduce flood risk to people and property, support regulatory compliance, and enhance long-term climate resilience. As projects advance to design and construction, continued model refinement, coordination with regulatory agencies, and periodic updates to the Master Plan are recommended to incorporate new data, completed improvements, and evolving climate and funding conditions.

Based on the work conducted to prepare this Master Plan, the City should consider these additional planning documents in the future:

CIP Implementation & Funding Strategy

A focused implementation plan would refine the prioritized CIP list by identifying near-term funding opportunities (e.g., grants, loans, cost-sharing), project delivery approaches, and permitting pathways. This would help the City move efficiently from planning to design and construction.

Climate Adaptation & Flood Resilience Plan

A standalone resilience plan could expand on the climate change analysis by integrating sea level rise, compound flooding (rainfall & tides), emergency access, and community vulnerability. This document would also strengthen eligibility for state and federal resilience funding.

Storm Drainage Inventory Asset Management Plan

Use the drainage inventory database from this CIP to create an asset management plan that proactively rehabilitates and replaces infrastructure, preventing emergency failures. The plan should detail documentation, assessment, and maintenance of stormwater systems (pipes, culverts, catch basins) for long-term function and financial stability.

Periodic Master Plan Update (5–10 Years)

Finally, the City should plan for periodic updates to the Storm Drain System Master Plan to incorporate completed CIPs, refined cost estimates, updated climate projections, new development, and additional field data.

Appendices

Appendix A

Assumptions

Assumptions made to prepare the Hydrology and Hydraulics (H&H) analysis to develop the CIPs include outfall conditions and reliance on the accuracy of the GPS equipment used in field data collection. Outfall boundary conditions and assumptions are further described below in Section D-3.

The accuracy of the model results is dependent on the accuracy of the provided data for the planned and in construction elements. The preliminary existing storm drainage infrastructure data was utilized to locate the existing storm drainage infrastructure during field data collection and was expanded upon. See Table 9.1 below for the received data utilized in the development of the H&H analysis.

Table 9.1 Flow routing metadata

Name	Description	File Type	Source
2006-02 Drain Basin 500 Study	List of drainage inlet locations and depths for the K-Street Outfall (Outfall 2)	.xls	City of Crescent City
2013-06 Drainage Study	Drainage study near C St memorandum, volumes, and location maps.	.dwg; .pdf	By Mike Young, provided by City of Crescent City
2014-06-18 Drainage Survey for Augustine Meeting	Further assessment of drainage study on C St.	.xls; .dwg; .pdf	By Mike Young, provided by City of Crescent City
Historic 'as-builts' of Storm Drain Infrastructure	Piecewise hand-drawn as-builts of storm drain infrastructure from 1965 – 2013	.pdf	City of Crescent City
MS4 Permit	Most recent MS4 Permit	.pdf	City of Crescent City
As-builts and plans of Front St., C St., D St., and F St.	Planned and partially in-construction drainage improvement projects to take place on Front St., C St., D St., and F St.	.pdf	City of Crescent City
As-builts of Harding St. Culvert	As-builts of Harding Ave Culvert Repair Project	.pdf	City of Crescent City
Storm Drain Capacity Analysis 3rd St Drainage from J to K St.	Rational Method analysis assessing the existing storm drainage capacity on 3rd St. from J to K St.	.xls	City of Crescent City
2024.02.23 Front Street Play to L Plans	Plans for storm drain infrastructure projects on Front Street.	.pdf	City of Crescent City
City Priority Criteria	A ranked list of criteria the City wants considered in project development and prioritization.	.docx	City of Crescent City
Critical Facilities	A shape file delineating buildings of high importance to the City.	.shp	City of Crescent City

Appendix B

Equity Analysis

Technical Memorandum

May 01, 2026

To	James Queen, City of Crescent City	**Contact No.**	707-267-2202
Copy to	n/a	**Email**	Amber.shows@ghd.com
From	Amber Shows, GHD	**Project No.**	12588710
Project Name	Crescent City Storm Drain Master Plan		
Subject	Equity Analysis		

1. Introduction

Understanding the locations of and impacts to disadvantaged populations and communities with equity concerns is an important aspect of city planning in general and is necessary to be in alignment with the ultimate goal of supporting communities to not only survive, but to thrive.

This Equity Analysis applied data analysis and geospatial mapping tools to public data to provide a contextual presentation of disadvantaged[1] populations and communities with equity concerns, including physical and socioeconomic vulnerabilities (see Section 4). Opportunities for further analysis include the refined hydraulic and hydrologic model outputs of existing flood risk and the proportional population density of block groups that were used in this analysis. Population density across block groups can be obtained for a fee from the Del Norte County Assessor's office.

1.1 Purpose of this Memorandum

This Equity Analysis report is designed to fulfill the agreed-upon deliverable requirement set forth in the Storm Drain Master Plan It is designed to provide an input for decision-making as deemed appropriate by the City and provide an additional level of refinement to the understanding of social equity in Crescent City, which meets state and federal definitions of disadvantaged at the city- and census block-group- levels. The results of this analysis will be referenced during storm drain improvement project prioritization to ensure equitable distribution of project benefits.

[1] Disadvantaged as defined in accordance with Final Designation of Disadvantaged Communities Pursuant to Senate Bill 535. May 2022. ***Final Designation of Disadvantaged Communities Pursuant to SB535, 2022 (ca.gov)**. Accessed 3/26/2024. More information: **Low-Income or Disadvantaged Communities Designated by California - Dataset - California Natural Resources Agency Open Data**. Accessed 3/26/2024.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

2. Assumptions

The assumptions for this deliverable are listed below.

- Population distribution is assumed to be uniform through the block group.
- Prioritization based on equity analytics was done before the hydraulic model was developed and hence does not consider the findings of the existing conditions hydraulic model.
- American Community Survey demographic data comes from surveys which have some inherent measuring error built in due to it not being a full census of all households. For example, estimates of low-income percentage for a particular block group could be inaccurate.

3. Background

The Federal government has made it a goal that 40 percent of the overall benefits of certain Federal climate, clean energy, affordable and sustainable housing, and other investments flow to disadvantaged communities that are marginalized by underinvestment and overburdened by pollution. This commitment was made through Executive Order (EO) 14008, "*Tackling the Climate Crisis at Home and Abroad"* and EO 14096, "*Revitalizing Our Nation's Commitment to Environmental Justice for All"*. These goals are expressed through the "Justice40 Initiative". EO 14008 references the term "disadvantaged communities," which has been used in existing federal and California state programs to prioritize funding for environmental justice.[2] Similarly, through grants, programs, and funding, the Inflation Reduction Act (IRA) makes investments in climate action that are designed to reduce U.S. greenhouse gas emissions approximately 40% by 2030 with a focus on tackling climate pollution, advancing environmental justice, and delivering clean air.[3,4]

Justice40 defines overburdened and underserved communities as disadvantaged at the census tract-level. Communities are considered disadvantaged if they are:

- in census tracts that meet the thresholds for at least one category of burden, or
- on land within the boundaries of Federally Recognized Tribes.

This designation is based on an analysis of burdens at thresholds using percentiles in comparison to the US population. The Justice40 initiative supplies a geospatial tool which provides the determination based on census tract data. The Climate and Economic Justice Screening Tool (CEJST) uses datasets as indicators of burdens. The burdens are organized into categories. A community is highlighted as disadvantaged on the CEJST map if it is in a census tract that is (1) at or above the threshold for one or more environmental, climate, or other burdens, and (2) at or above the threshold for an associated socioeconomic burden[5]. In addition, a census tract that is completely surrounded by disadvantaged communities and is at or above the 50% percentile for low income is also considered disadvantaged.

The Environmental and Climate Justice Program (ECJ Program), created by the IRA, provides funding for financial and technical assistance to carry out environmental and climate justice activities to benefit disadvantaged communities. The US Environmental Protection Agency (EPA) has created the EPA IRA Disadvantaged Communities map layer to assist potential applicants seeking to identify whether a community

[2] **Disadvantaged Communities Nomenclature Within the State of California: Findings and Conclusions — A Recommendation Document**. Accessed on 4/9/2024.
[3] **Inflation Reduction Act | US EPA**. Accessed 4/9/2024.
[4] **Inflation Reduction Act Overview (epa.gov)**. Accessed 4/9/2024.
[5] **Methodology & data - Climate & Economic Justice Screening Tool (geoplatform.gov)**. This link provides definitions for categories of burdens and percentile thresholds under Justice40 criteria depicted in CEJST.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

is disadvantaged for the purposes of implementing programs under the IRA. The EPA IRA Disadvantaged Communities map combines multiple datasets that individually can be used to determine whether a community is disadvantaged for the purposes of implementing programs under the IRA. All data sets are assigned values at the Census block group level. The criteria and associated datasets used in the map are:[6]

- Any census tract that is included as disadvantaged in the CEJST.
- Any census block group at or above the 90th percentile for any of US EPA's Environmental Justice Screening Tool (EJScreen) Supplemental Indexes when compared to the nation or state,
- and/or any of the following geographic areas within the Tribal lands category in EJScreen:
    - Alaska Native Allotments
    - Alaska Native Villages
    - American Indian Reservations
    - American Indian Off-reservation Trust Lands
    - Oklahoma Tribal Statistical Areas

The supplemental indexes are a combination of EJScreen's socioeconomic and environmental indicators calculated at the census block group-level and provide flexibility and additional functionality to the EJScreen tool for use in specific situations, including obtaining grant funding.

The state of California set forth indicators, thresholds, and definitions for the determination of disadvantaged populations and disadvantaged communities (DACs) through Assembly Bill (AB) 1550 and Senate Bill (SB) 535.[7] AB 1550 defines "low-income" as 80% of the California median income. Under California water code 79505.5 a Small Disadvantaged Community refers to a Disadvantaged Community that has a year-long population of no more than 10,000 persons and a combined median household income (MHI) of less than 80% of the state MHI and a Severely Disadvantaged Community (SDAC) has a population under 10,000 and a combined MHI under 60% of the statewide MHI [8].

DAC definitions and thresholds are as follows:

- **Low-Income or Disadvantaged Communities**:
    - These are census tracts with median household incomes at or below **80 percent** of the statewide median income.
    - They can also include areas with incomes below the threshold designated as low income by the **Department of Housing and Community Development**.
    - Additionally, census tracts receiving the **highest 25 percent** of overall scores in **CalEnviroScreen 4.0** fall into this category.
    - Even census tracts lacking overall scores in CalEnviroScreen 4.0 due to data gaps but receiving the **highest 5 percent** of cumulative population burden scores are considered disadvantaged.
    - Lands under the control of federally recognized Tribes are also part of this designation.[9]
- **Income Thresholds**:
    - A **(DAC)** in California is defined as a community with an annual median household income less than **80%** of the statewide annual median household income.
    - A Severely Disadvantaged Community has a median household income below 60% of the statewide average.[10]

[6] **Inflation Reduction Act Disadvantaged Communities Map | US EPA**. Accessed 4/9/2024.
[7] **SB 535 Disadvantaged Communities | OEHHA (ca.gov)**. Accessed 4/9/2024.
[8] **Disadvantaged Communities in Northern California (norcalwater.org)**. Accessed 4/9/2024.
[9] **Low-Income or Disadvantaged Communities Designated by California - Dataset - California Open Data**. Accessed 4/9/2024.
[10] **California Disadvantaged Communities Mapping Tool | Adaptation Clearinghouse**. Accessed 4/9/2024.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Crescent city has 3 zip codes and 5 main block groups, most of which lie partially within the city boundary, as illustrated in Figure 1 (below).

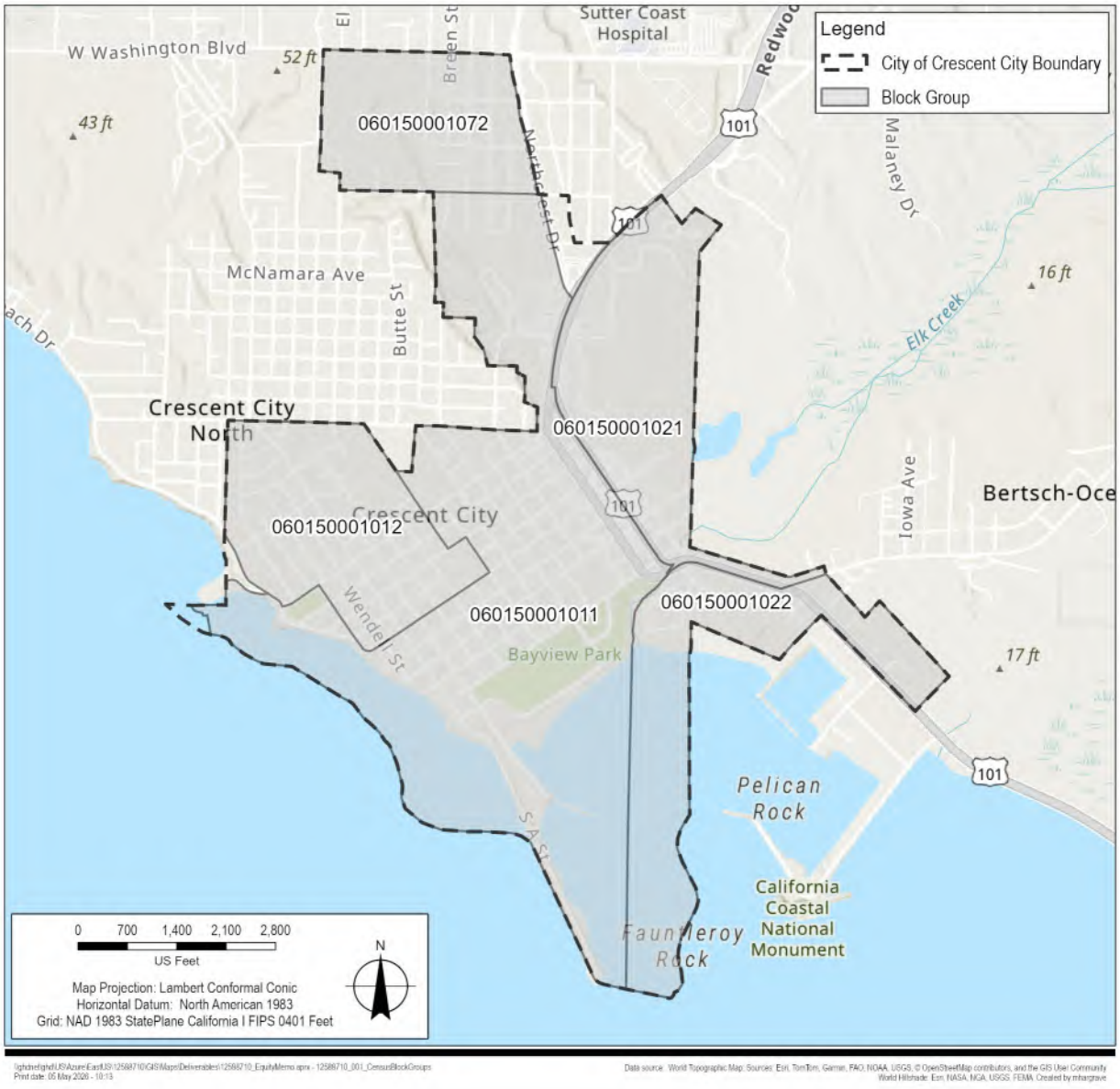


Figure 1 Crescent City Boundary and Census Block Groups

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Crescent City meets the California definition of a small, disadvantaged community as defined under California water code 79505.5[11] and is considered low-income in accordance with state definitions as defined by AB 1550[12] as well as qualifying as disadvantaged under the Justice40 and IRA Disadvantaged Communities definitions at the census block group-level (for all block groups that intersect with the city boundaries), as depicted in the table below[13] (see also Attachment 1).

Table 1 Justice40 and IRA Designations by Block Group

Block Group	Justice40	IRA
060150001011	Disadvantaged	Disadvantaged
060150001022	Disadvantaged	Disadvantaged
060150001072	Disadvantaged	Disadvantaged
060150001012	Disadvantaged	Disadvantaged
060150001021	Disadvantaged	Disadvantaged

The “disadvantaged” designations are important for determinations of eligibility for grant funding through Justice40 and IRA Federal agency administered programs as well as through state agencies. However, additional detailed analysis was conducted to provide a higher level of refinement to the understanding of social equity in Crescent City so that the findings may be used to support project-specific decision-making. The results of this analysis will be referenced during storm drain improvement project prioritization to ensure equitable distribution of project benefits.

4. Definitions and References

For the purposes of this analysis, California state and US federal data sources and references were used. Analyses were performed at the US census block group-level. Statistical analysis and subsequent scoring were performed for an entire block group, even if that block group only partially resides within the City boundary (see Figure 1, Section 6).

A demographic index was calculated for block groups applying socioeconomic indicators to determine the location and concentration of populations with equity concerns in comparison to the California state mean. The indicators comprising the demographic index are in alignment with the socioeconomic indicators recognized by the US EPA[14] for environmental, economic, and climate justice screening (see Table 1). Additional selected and relevant potential environmental release and exposure indicators and social and economic vulnerability indicators were then considered to further refine the context and help identify the vulnerabilities of the communities with equity concerns identified at the block group level in Crescent City. Potential flood-related climate hazards were also briefly reviewed and qualitative information was provided.

The following table provides the definitions, reference areas, and data sources applied and used for indicator comparison and index calculation and climate hazard review.

[11] California Small Disadvantaged Community is a community with no more than 10,000 persons with a combined mean household income (MHI) of less than 80% of the state MHI. **Low-Income or Disadvantaged Communities Designated by California - Dataset - California Natural Resources Agency Open Data**. Accessed 3/27/2024

[12] **Priority Populations 2023 (ca.gov)**

[13] **Explore the map - Climate & Economic Justice Screening Tool (geoplatform.gov)**

[14] Based on the US EPA’s Screening and Mapping Tool **EJScreen (epa.gov)** demographic and supplemental indexes as defined in EJScreen Technical Documentation, October 2022. **https://www.epa.gov/sites/default/files/2021-04/documents/ejscreen_technical_document.pdf** Accessed 3/26/2024

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Table 2 Demographic Index Scoring and External Vulnerabilities and Hazards Considered

Indicator/Index/Hazard	Definition	Reference Area	Data Source
Demographic Index Scoring			
People of color	Individuals who listed their racial status as a race other than white alone and/or as Latino or Hispanic. The word "alone" in this case indicates that the person is of a single race, not multiracial.	Percentage of people of color in the block group	The United States (US) Environmental Protection Agency (EPA) Screening and Mapping Tool[15] (from American Community Survey[16])
Low-income	Households with income levels less than 200% of the Federal Poverty Level (FPL)	Percentage of households in the block group with incomes less than 200% of the FPL (by household) in the block group	EJScreen[15]
Over age 64	Percentage of the population over age 64	Percentage people over age 64 in the block group	EJScreen[15]
Under age 5	Percentage of the population under age 5	Percentage people under age 5 in the block group	EJScreen[15]
Less than high school education	Percentage of the population age 25 or older with less than a high school education	Percent of people age 25 or older in a block group whose education is short of a high school diploma in the block group	EJScreen[15]
Low Life Expectancy	Low Life Expectancy—Life Expectancy at Birth from Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS): % Low Life Expectancy is defined as "1 – (Life Expectancy / Max Life Expectancy	Percent of people in the block group with a life expectancy at or below the 30th percentile of the US	EJScreen (from National Vital Statistics System[17])
Demographic Index	Calculated index score of the demographic indicators above	Calculated for each block group	Indicator inputs
Environmental Release and Exposure Indicators			
Underground storage tank (UST) locations	Underground Storage Tank system is a tank and any underground piping connected to the tank that has at least 10 percent of its combined volume underground. The federal UST regulations apply only to UST systems storing either petroleum or	Count applied at the block group level	EJScreen (Calculated from EPA UST Finder[18])

[15] **EJScreen (epa.gov)**
[16] The data can be downloaded from the **US Census Bureau's FTP Server.**
[17] **NVSS - National Vital Statistics System Homepage (cdc.gov)**. Accessed on 4/9/2024.
[18] Calculated from EPA UST Finder, retrieved 2/2/2023

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Indicator/Index/Hazard	Definition	Reference Area	Data Source
	certain hazardous substances.		
Traffic proximity and volume	Count of vehicles ("AADT", avg. annual daily traffic) at major roads within 500 meters, divided by distance in meters (not km). Indicator for potential safety and air quality exposures.	Count applied at the block group level	EJScreen (Department of Transportation traffic data[19])
Social and Economic Indicators			
Renter-occupancy	Count of renter-occupied households. Functions as an indicator of housing burden and economic burden	Count applied at the block group level	American Community Survey[20]
Physical Climate Hazards			
Flood Zone Boundaries	Shows boundary lines of flood zones	This category is comprised of 100-year annual chance flood event hazard boundaries	FEMA[21]
Sea Level Rise	Sea level rise risk signifies the overall risk of inundation from projected sea level rise between one to six feet over the next ~90 years. The indicator represents the possibility of inundation based upon the combined projections at each stage of sea level rise and could vary depending upon future circumstances. A high rank indicates a community more vulnerable to sea level rise.	Reviewed at the City-level	NOAA Fisheries Community Social Vulnerability Index (CSVI)[22]
Commercial activity	Count of unemployed adults and the total number of low-income individuals	A combined indicator consisting of unemployed people in the block group plus the total number of low-income individuals in the block group	EJScreen[15]

[19] **Data Inventory | US Department of Transportation**, Accessed on 4/9/2024
[20] The data can be downloaded from the **US Census Bureau's FTP Server.**
[21] **Hazus | FEMA.gov**. Accessed 4/9/2024.
[22] Social Indicators Tool (noaa.gov), accessed 3/27/2024.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

5. Methodologies

5.1 Demographic Index Statistical Methodology

The demographic index is the scoring mechanism used to identify communities with equity concerns within the City. Scores are typically calculated at the US census block group level using the following approach.

Each demographic variable (indicator value) is normalized using the z-score formula for each variable in the block group:

$$(x-\mu)/\sigma$$

Where,

X is the variable value in the block group

μ is the mean of that variable across all block groups in the region (for the Crescent City analysis the state of California was used)

σ is the standard deviation

Normalized demographic variable values are then added together to calculate the demographic index (consisting of the normalized demographic indicator values).

5.2 Scoring Methodology

Demographic index scores are provided to reflect the socioeconomic characteristics of the population in a particular block group. The index also anonymizes the data to support protection of individual privacy. This score provides a relative measure against the California mean for each indicator comprising the demographic index (see Table 2) and are descriptively ranked relative to one another. The demographic index scoring scale is presented in Table 3.

Table 3 Demographic Index Scoring Scale

Score Range*	Definition	Rank
2.97 – 3.31	Higher Level of Potential Social Vulnerability	1
2.39 – 2.96	↓	2
1.30 – 2.39	↓	3
0.56 – 1.29	↓	4
0 – 0.55	Lower Level of Potential Social Vulnerability	5

* – where a score of 0 is the California mean and the range is based on the distribution of the scores

When interpreting the demographic index score, a score above zero indicates that the block group exhibits a higher level of social vulnerability - as it is represented by the calculated demographic index - than the average in California. As scores increase, the level of relative social vulnerability - as it is represented by the indicators comprising the demographic index - increases.[23]

[23] The intent of this ranking is to provide more stratification and granularity to the available data for the purposes of descriptive clarity.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

To provide additional descriptive analyses, the following environmental and socioeconomic indicators were reviewed:

- Underground storage tank locations – potential environmental release exposure events, legacy pollution
- Traffic proximity and volume – potential air quality exposure and public safety concerns, legacy pollution, displacement
- Renter-occupancy – potential economic and social vulnerability, housing burden
- Commercial activity – potential economic vulnerability

Underground storage tank locations were reviewed due to the potential for environmental release, and traffic proximity and volume were reviewed as an indicator of pollution burden and public safety. Renter occupancy and commercial activity provide additional information about socioeconomic conditions and potential vulnerabilities. Supplemental indicator selection is based on standard indicators for environmental and economic justice screening[24] and as indicative of issues which are potentially relevant to the activity of storm drain planning and management. In addition, the following climate-related hazards were reviewed based on available public data:

- Flod risk areas – potential climate hazard, property damage, and public safety hazard
- Flood zone boundaries – potential climate and public safety hazard
- Sea level rise (SLR) – potential climate hazard, property damage, economic burden

Flood hazards and risks along with SLR were briefly reviewed based on public data sets due to the coastal location of Crescent City and the riverine flood risk of Del Norte County.[25] Because flood risk and hazard determinations may require hydrologic model inputs for planning applications, a brief overview of findings was provided for informational purposes but is not inclusive of site-specific hydrologic model data or historical data.[26]

[25] **National Risk Index | FEMA.gov**. Accessed 3/26/2024.
[26] Climate-related hazards were not included in the cumulative scores provided in Section 7 but a map of SFHA zones with demographic scores was provided.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

The figure below provides the results of the demographic index scoring by block group. Block group 060150001012 received the highest demographic index score, indicating the highest levels of potential socioeconomic vulnerability, as it is represented in the demographic index, to populations residing in the block group. Block groups 060150001021, 060150001011, 060150001072, 060150001022 are partially within the City boundaries. These block groups have lower scores, which means they are closer to the California mean and descriptively have progressively lower levels of potential social vulnerability relative to one another, as social vulnerability is represented in the combination of indicators described above (see Table 2).

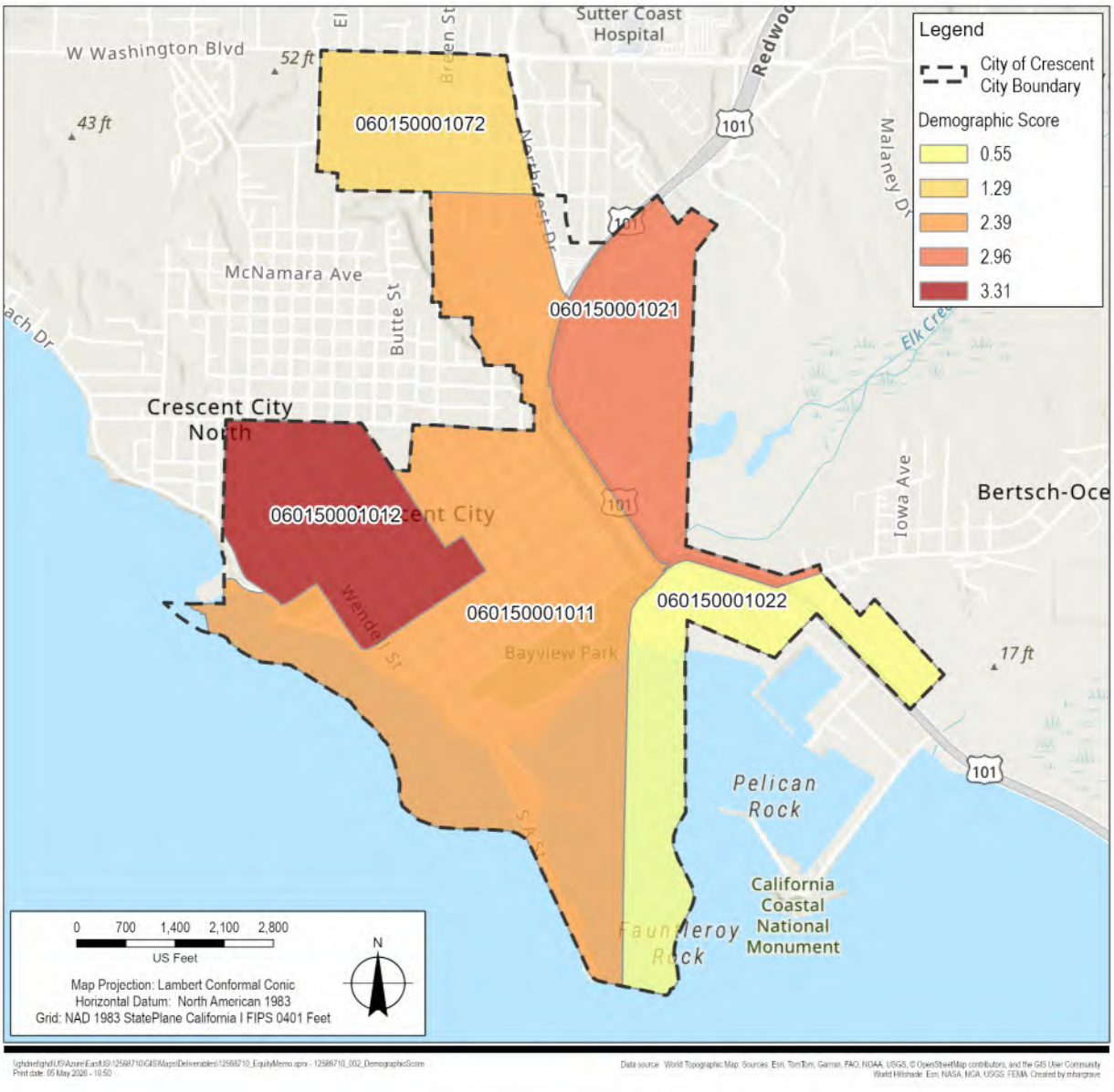


Figure 2 Demographic Index Score by Block Group

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

6. Crescent City Community Information

As part of the equity analysis, socioeconomic and environmental characteristics were reviewed and documented to support a contextual understanding of the conditions relevant to social equity in the City. A brief summary of findings is presented in this section.

6.1 Social and Economic Indicators

Table 4 presents socioeconomic data for Cresent City, including relevant population data, age, rates of owner-occupied housing units, and income levels in comparison to Del Norte County and California state statistics.

Table 4 Socioeconomic Statistics Summary

Socioeconomic Statistic[27, 28, 29]	Crescent City	Del Norte County	California State
People and Population			
Population Estimates, July 1, 2022	5,983	27,112	39,040,616
Persons less than age 5	2.90%	4.90%	5.50%
Persons less than age 18	12.30%	20.90%	21.80%
Persons over age 64	14%	19.4%	15.8%
Race and Ethnicity[30]			
People of Color	46%	40%	61% (average)
Housing			
Owner-occupied housing unit rate, 2018-2022	36.50%	68.10%	55.60%
Households, 2018-2022	2,029	9,530	13,315,822
Income and Poverty			
Median household income (in 2022 dollars), 2018-2022	$ 39,812	$ 61,149	$ 91,905
Persons in poverty, percent, 2022	22.70%	16.50%	12.20%
Health			
Persons with disabilities, 2022	22.2%	19.3%	11.7%
Employment and Labor Force			
Employment Rate, 2022	29.7%	44.6%	60%

The NOAA Fisheries Social Indicators for Coastal Communities were also reviewed for Crescent City, to gain context and understanding of potential areas of socioeconomic social vulnerability in the City. Indicators for poverty, personal disruption, and labor force structure scored high in vulnerability, while indicators for retiree migration and housing characteristics scored medium-high[31] on the community social vulnerability index (CSVI) scale. These indicators reflect the comparison statistics presented in Table 4, indicating higher than average levels of poverty and unemployment along with housing burden, which cn contribute to migration and personal disruption.[32,33]

6.2 Environmental Release and Exposure Indicators

The table below provides the values for environmental release and exposure sources at the city-level for Crescent City in comparison to California state and national percentiles.

[27] https://www.census.gov/quickfacts/fact/table/CA,delnortecountycalifornia,crescentcitycitycalifornia/PST045223
[28] **Del Norte County, California - Census Bureau Profile**. Accessed 3/26/2024.
[29] **Crescent City city, California - Census Bureau Profile**. Accessed 3/26/2024
[30] See attachment 1 to this memo: EJScreen Community Reports for Del Norte County and Crescent City.
[31] NOAA Fisheries CSVI scoring scale: High, Medium-High, Medium, Low; NA – does not apply

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Environmental Release and Exposure Sources	Value	State Average	Percentile in State	US Average	Percentile in US
Particulate Matter (µg/m3)	5.85	8.65	6	8.08	7
Ozone (ppb)	44.5	65.9	0	61.6	0
Diesel Particulate Matter (µg/m3)	0.03	0.26	1	0.26	1
Air Toxics Cancer Risk (lifetime risk per million)	20	27	1	25	1
Air Toxics Respiratory Hazard Index	0.20	0.34	2	0.31	4
Toxic Releases to Air	0.36	780	6	4,600	3
Traffic Proximity (daily traffic count/distance to road)	41	510	16	210	36
Lead Paint (% pre-1960 housing)	0.28	0.31	54	0.3	56
Superfund Proximity (site count/km distance)	0.01	0.17	1	0.13	6
RMP Facility Proximity (facility count/km distance)	0.011	0.57	0	0.43	0
Hazardous Waste Proximity (facility count/km distance)	0.19	5.9	6	1.9	34
Underground Storage Tanks (count/km^2)	2.2	1.5	78	3.9	60

The values and percentiles for pollution and sources indicators may vary substantially at the block group level, so environmental indicators selected for the equity analysis were examined at the block group level.

6.3 Key Takeaways

Crescent city, as a whole and at the block group level, is considered disadvantaged in accordance with AB 1550 and California water code 79505.5 state definitions and Justice40 and IRA federal definitions (see also Attachment 1).[34,35] In addition, the City exhibits higher levels of social vulnerability when compared to the state, based on the indicators reviewed. Poverty and unemployment exceed state and county levels, and the NOAA Fisheries CSVI identifies the City at a high level of vulnerability for personal disruption, labor force structure, and housing characteristics.

[32] **Social Indicators Tool (noaa.gov)**. Accessed 3/26/2024
[33] Definitions for NOAA Fisheries indicators may be found here: **Social Indicators for Coastal Communities | NOAA Fisheries**
[34] California Small Disadvantaged Community is a community with no more than 10,000 persons with a combined mean household income (MHI) of less than 80% of the state MHI. **Low-Income or Disadvantaged Communities Designated by California - Dataset - California Natural Resources Agency Open Data**. Accessed 3/27/2024
[35] **Explore the map - Climate & Economic Justice Screening Tool (geoplatform.gov).** Accessed 3/27/2024

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

7. Demographic Index Scoring

The demographic index described in the previous sections was calculated at the block group level and the scores are provided in the table below. Because the analysis was performed by census block group, the calculated land area that lies within the City boundaries was provided for each block group. However, population clustering and distribution data was not integrated into the analysis so straight ratios of population to land area may not accurately reflect population and household distribution.

Table 5 Calculated and Ranked Demographic Index per Block Group with Population

Rank	Block Group Number	Score*	Population	Number of Households	Population Density+	Land area within the City Boundary (%)
3	060150001011	2.39	1,987	893	2.2	34%
1	060150001012	3.31	2,241	995	2.3	98%
2	060150001021	2.96	2,074	543	3.8	38%
5	060150001022	0.55	1,747	663	2.6	5%
4	060150001072	1.29	1,907	685	2.8	7%

* = where 0 is the California mean
+ = population (count)/number of households

All the block groups which comprise the City meet the Justice40 and US EPA Inflation Reduction Act (IRA) Disadvantaged Communities definition (see Attachment 1), therefore, differentiating based on the additional indicators included in the calculated demographic index provides clarification on relative scores of each block group compared to one another. Block group 060150001012 received the highest demographic index score, indicating the highest levels of potential socioeconomic vulnerability, as it is represented in the demographic index, to populations residing in the block group. Ninety-eight percent (98%) of the geographic area of block group 060150001012 is located within the City boundaries.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

The data analyses were performed at the block group level (due to availability) and population is not necessarily equally distributed throughout the block group area, therefore, the percentage of the geographic area of the block group residing within the City boundaries was calculated for reference and is presented on Figure 3 (below) (see also Table 5).

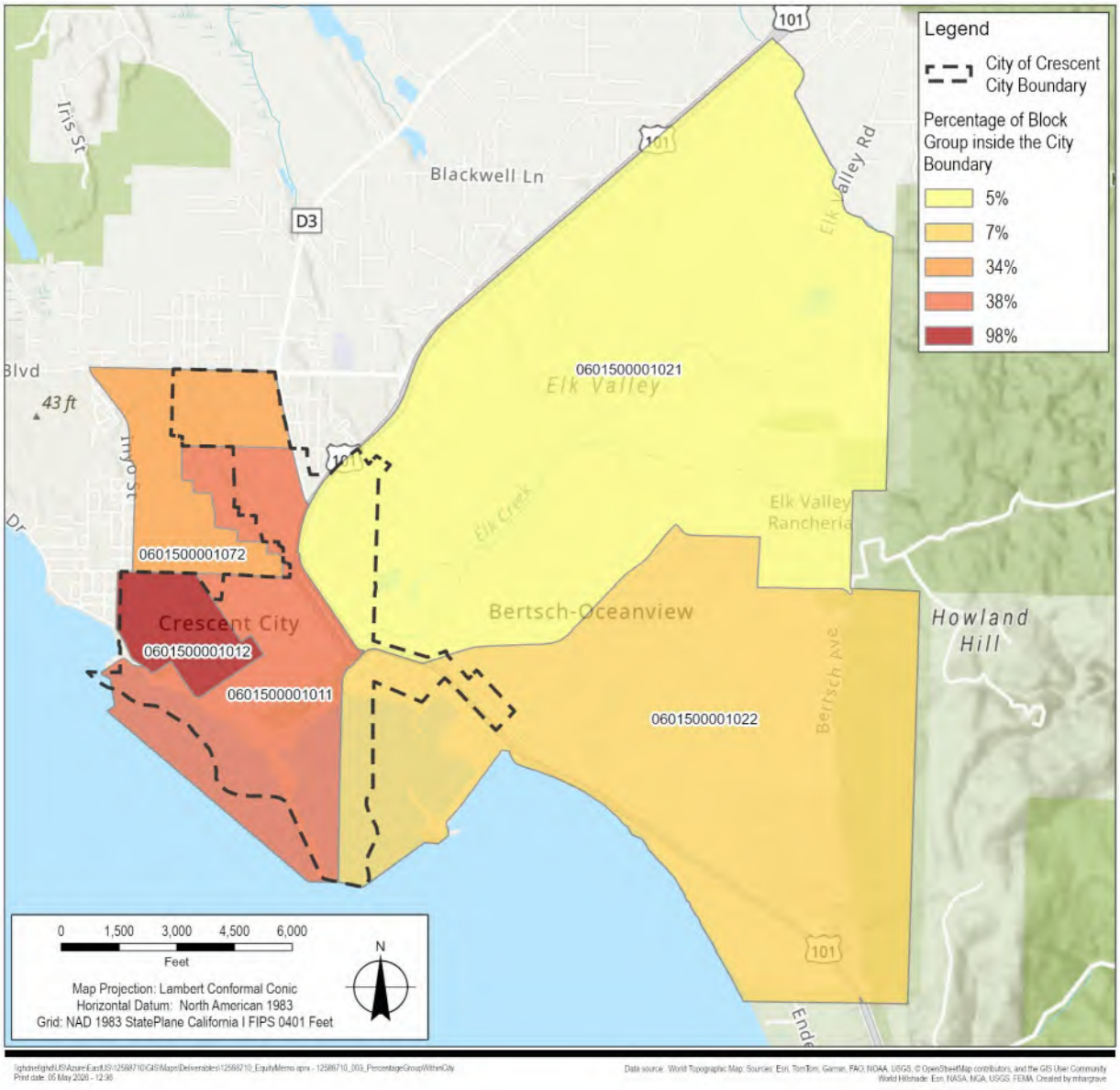


Figure 3 Percentage of Census Block Group Land Area within City Boundaries

Population density for each block group is a relevant consideration for planning and prioritization; however, areas of low population density and household count may be disadvantaged due to historical legacies of co-location of under-resourced communities with industrial zoning. The figures below provide population density information in the form of household density for each block group within the city boundaries (full and partial) (Figure 4) and the mean number of residents per household by block group (Figure 5).

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

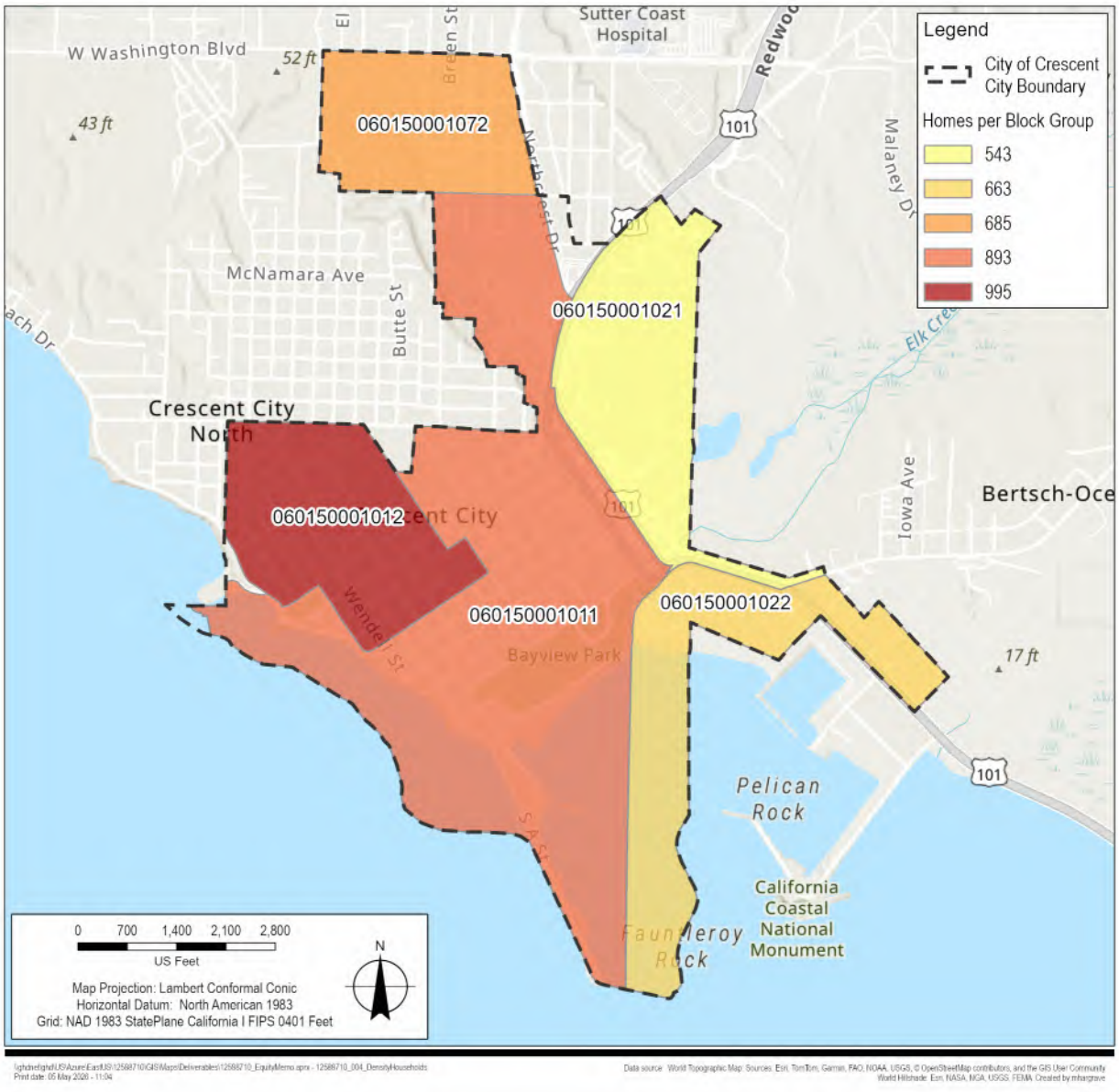


Figure 4 Density of Households by Block Group

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

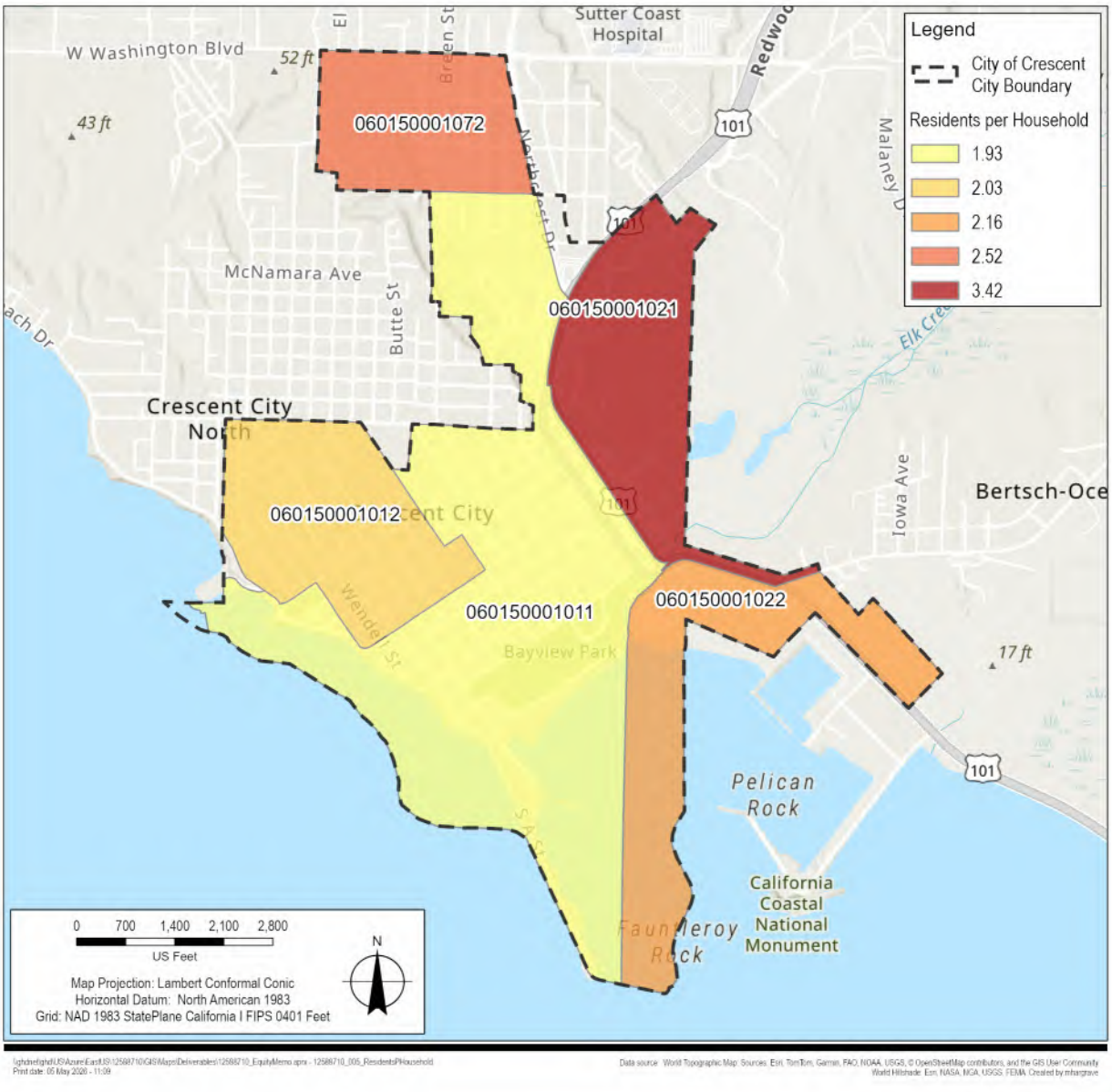


Figure 5 Residents per Household by Block Group

Renter occupancy may be an indicator of economic and social vulnerability and housing burden, where lower levels of residential homeownership may indicate higher levels of vulnerability and burden. The renter occupancy percentages by block group are presented in Table 6 (below). The renter occupancy percentages in Table 6 represent the statistic for entire geographic area that comprises the associated census block group.

Table 6 Renter Occupancy by Block Group

Block Group	Percentage of Renter Occupancy
60150001011	74.89%
60150001012	58.05%
60150001021	27.37%

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Block Group	Percentage of Renter Occupancy
60150001022	22.13%
60150001072	38.99%

Flood risk and hazards are specific considerations which may require site-specific modelling and historical data for planning applications. As such, the flood hazard zone data from FEMA was used to provide a map depicting the special flood hazard area (SFHA) as it intersects with the block groups. However, outputs from hydrologic modelling and historical data would provide more specific information for use in determining flood risk and hazards to vulnerable populations. The SFHA flood zone boundaries by block group along with the demographic index score is provided in Figure 6 (below).

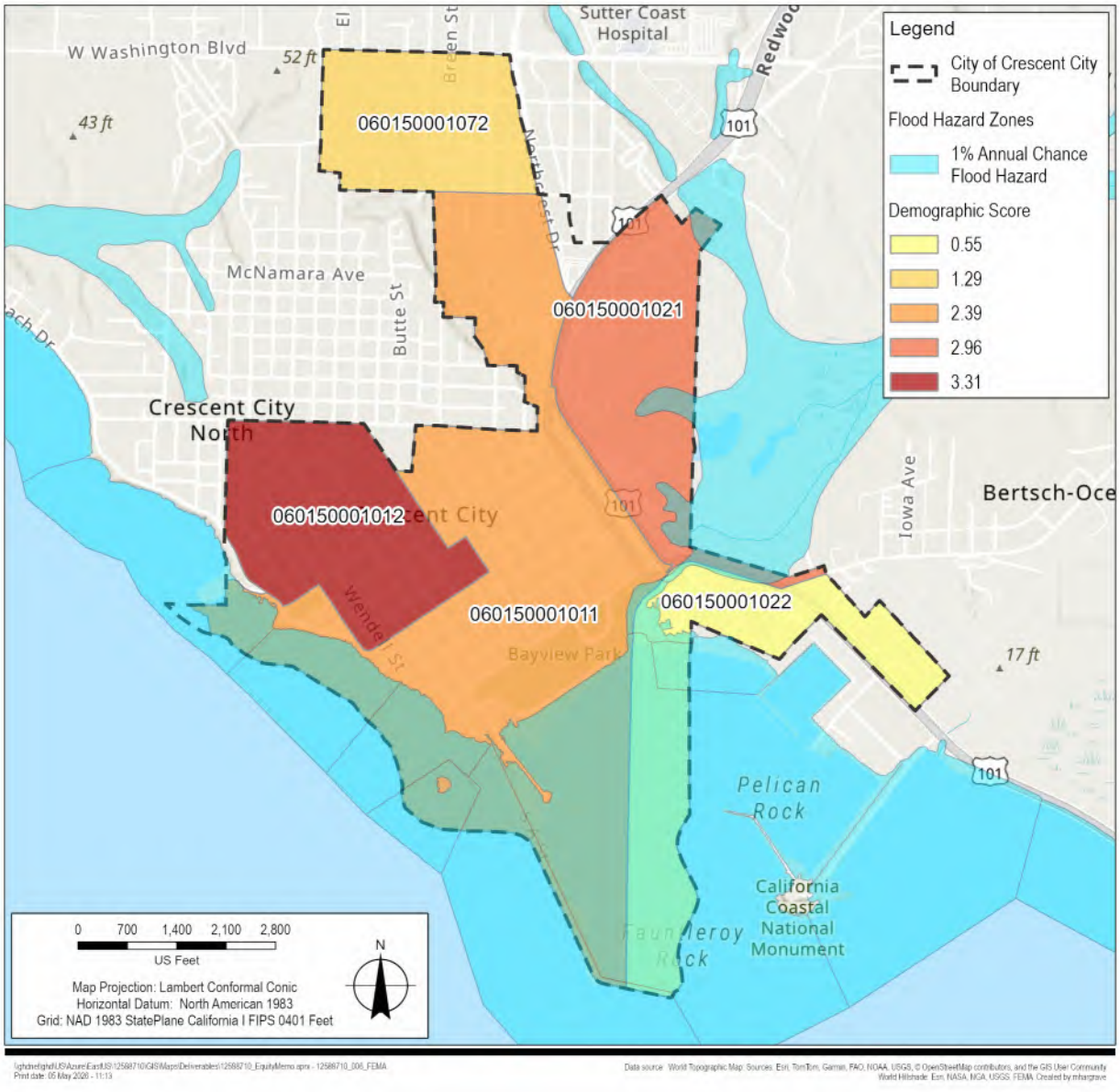


Figure 6 SFHA Flood Zone Boundaries by Block Group

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Climate-related hazards including flood risk and hazard and SLR were reviewed using FEMA data, EJScreen community analysis, and NOAA Fisheries sources. The risk of SLR was determined to be low by the NOAA Fisheries CSVI report for the city as a whole. Because flood risk and hazard may require technical inputs from hydrologic models and historical data when used for planning, the SFHA figure (above) was provided for informational purposes but is limited by the use of publicly available data.

Supplemental indicators were integrated into the analytical approach based on relevance to place and activity and based on standard socioeconomic indicators used for environmental, economic, and climate justice screening and assessment (see Table 2). Supplemental indicators included in the analytical evidence base are representative of the potential for pollution and public safety burdens (UST location - environmental release; traffic proximity and volume– air quality and safety) and social and economic vulnerability in the form of housing burden and economic vulnerability (renter-occupied residences; commercial activity). Table 7 (below) provides a statistical ranking of each block group per supplemental indicator along with block group level population counts by individual and household. Indicator definitions are provided in Table 2.

Table 7

Indicator	Block Group	Rank*
Supplemental Indicators		
Renter-occupancy	060150001011	1
	060150001012	2
	060150001021	4
	060150001022	5
	060150001072	3
Commercial activity	060150001011	5
	060150001012	4
	060150001021	3
	060150001022	2
	060150001072	1
Traffic proximity and volume	060150001011	5
	060150001012	1
	060150001021	4
	060150001022	2
	060150001072	3
UST	060150001011	3
	060150001012	1
	060150001021	2
	060150001022	5
	060150001072	4
Population Density/Counts		
Population	60150001011	3
	60150001012	5
	60150001021	4
	60150001022	1
	60150001072	2
Number of households	60150001011	4
	60150001012	5
	60150001021	1
	60150001022	2
	60150001072	3

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

* where 5 = Least or fewest and 1 = Most or highest

The demographic index score was combined with the scores for the supplemental indicators and population density to provide a cumulative score for each block group. This score provides an input for understanding the level of potential social vulnerability, as it is described by the indicators selected for this evidence base, and opportunities to positively impact social equity outcomes for communities with equity concerns at the census block group level. Based on these cumulative findings, an Equity Priority score was assigned for use in project prioritization. Table 8 (below) provides the cumulative scores and equity priorities, and Figure 7 (below) provides a visual depiction of the cumulative score and equity priority by block group.

Table 8 Cumulative Scores by Block Group

Block Group	Cumulative Score	Meaning*	Equity Priority
060150001012	12	Higher level of potential combined vulnerability	1
060150001011	18		2
060150001021	22		3
060150001072	23		4
060150001022	35	Lower level of potential combined vulnerability	5

* = indicators comprising the cumulative score include those that are used to determine whether a community is considered disadvantaged by state and federal definitions (see Section 3). The score is comprehensive of the demographic index score combined with the supplemental indicator scores.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

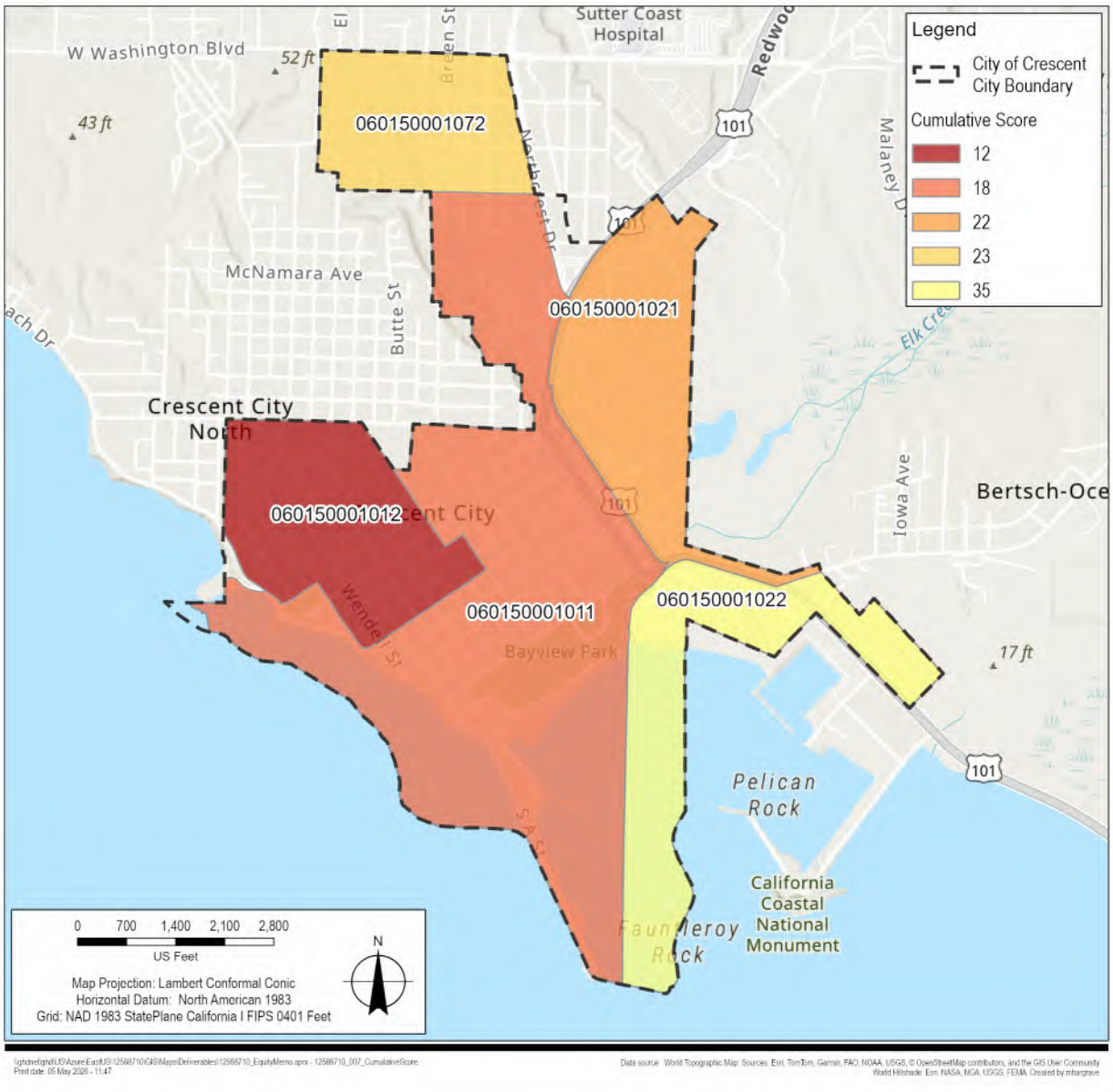


Figure 7 ***Cumulative Scores and Equity Priorities***

8. Demographic and Cumulative Score Use Notes

The demographic index calculated during this analysis provides a comparative measure of social vulnerability at the census block group level. The cumulative score is the calculated demographic index combined with the supplemental indicator scores. The demographic index includes core socioeconomic indicators and the cumulative score includes both those core socioeconomic indicators along with the selected supplemental indicators that provide more refined information to reflect pollution burden, public safety, and economic vulnerability.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Both the demographic index and the cumulative score are designed to provide inputs for the evidence base needed to select opportunities and priorities to advance social equity in infrastructure planning and development.

The equity analysis was performed with currently available existing public data sets and did not include hydrologic modelled or historical data. Analyses were performed at the census block group level, so statistics reflect conditions in those geographies and are not limited to land area included in the City boundary.

Regards



Amber Shows
Project Manager

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Appendix C

Data Collection Field Surveys

C-1 Purpose

The purpose of the data collection analysis was to provide an inventory of the storm drain infrastructure for the City and use that data to inform the H&H analysis. Data collected during the field survey efforts are described in the sections below.

C-2 Required Data

Data collected included watershed and sub-watershed boundary verification, surface flow routing, and existing drainage infrastructure. Data was collected through a site investigation visit with efforts between GHD and the City of Crescent City staff members and is described below.

C-2-1 Digital Elevation Model (DEM)

The existing Coastal Lidar supplied digital elevation model (DEM) was determined to have high enough resolution for the purposes of this H&H analysis. However, an expanded DEM capturing the topographic details of areas contributing to the storm water drainage system is required. These areas were determined through a preliminary watershed delineation through PCSWMM with the “Watershed Delineation Tool.” The expanded areas of the DEM do not contain drainage infrastructure elements and only contribute surface runoff to the system. Therefore, a lower resolution DEM layer to capture the expanded areas would be acceptable. The outcome of this step is a conformed DEM with the highest resolution in the lower reaches, and the lowest resolution in the higher reaches, shown in Figure 9.5 below.

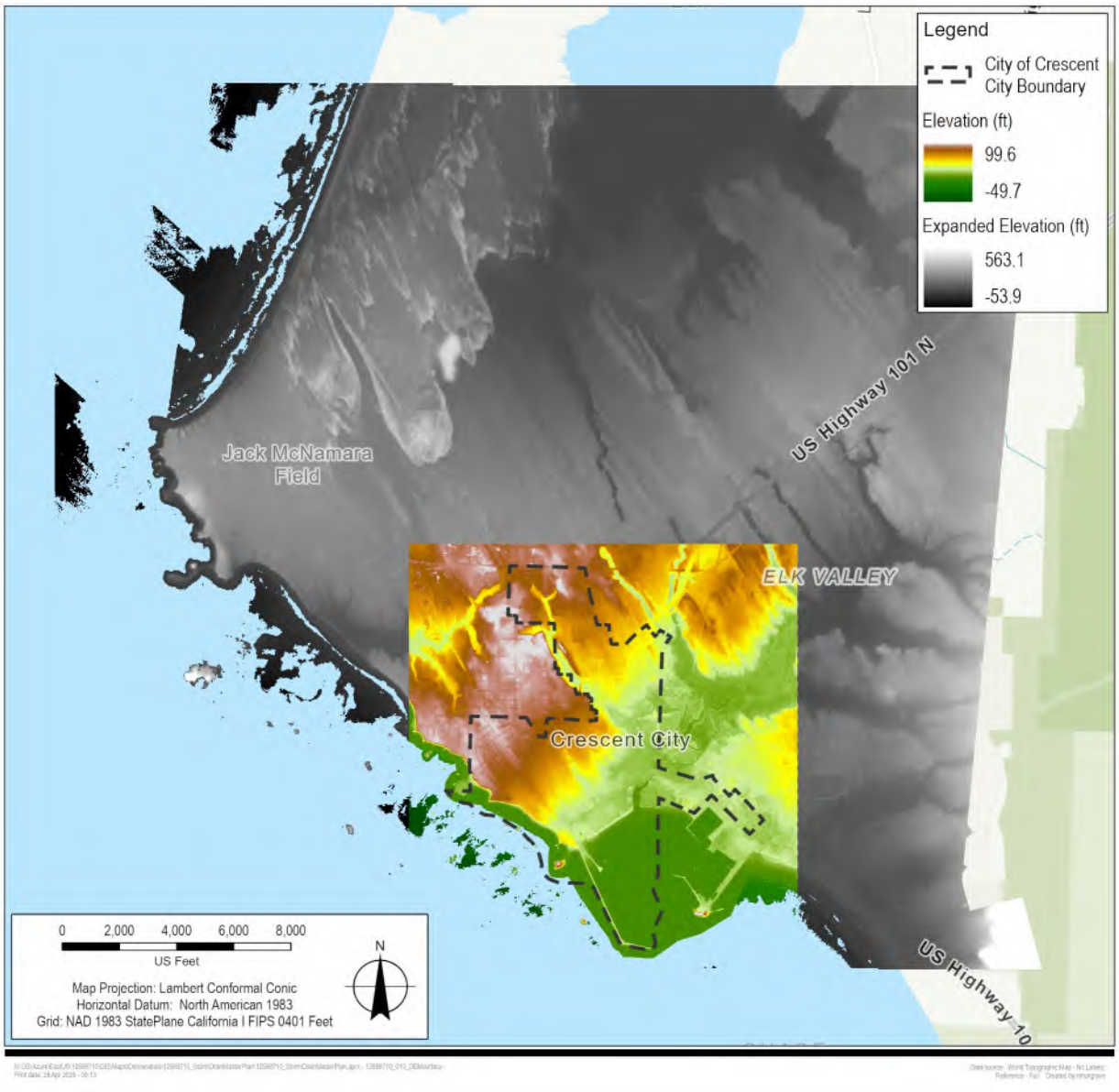


Figure 9.5 Conformed DEM.

After this step, the watershed delineation tool is run to provide a preliminary delineation of the watershed and sub watersheds. The watershed and sub watersheds delineated inform the creation of the watershed map book.

C-2-2 Watershed Boundaries and Surface Flow Routing

Using DEM and using watershed delineation tool with existing model, the GIS output from PCSWMM is utilized to create the map book. Hydrologists then field verify flow boundaries and directions for each sub watershed. As the first element of field data collection; watershed and surface flow routing are verified through a field investigation by verifying watershed boundaries delineated within the watershed map book.

The model is most sensitive to areas in lower elevation within higher energy segments (greater changes in elevation for flow sections), and accordingly, data collection will be prioritized for these regions. Higher elevations and lower energy segments (flatter surface flow sections) of the watershed are of lower priority but are still recommended to collect to ensure a thorough and accurate model.

The watershed delineation tool delineates watersheds and surface flow route off connections to all existing DI junctions to provide a preliminary watershed boundary. The preliminary watershed boundary will be utilized to create a watershed map book, delineating where each watershed outfall or drainage point is located. Watershed and sub-watershed boundaries to be verified and modified based on surface flow routing affected by topography and hard barriers (i.e. roads, buildings, etc..). Areas with permittable flooding such as parks or fields considered 'greenspaces' are to also be identified and delineated. Watershed and sub-watershed boundaries and other collected field data is to be recorded in the GIS team provided watershed map book. This field work is to be conducted by the hydrologist on site and can be conducted concurrently with data collection needs described below in Section C-2-3.

Outcome of this objective is a revised watershed boundary map to incorporate into the model as a GIS file. Attributes for the GIS watershed boundary map are consistent with the attributes for the PCSWMM model.

C-2-3 Existing Drainage Infrastructure

Data collection for the existing drainage infrastructure was collected concurrently with watershed boundary and surface flow routing data collection. This section describes the data collected, and the methodology of how the data was collected.

Conditions Assessment

The conditions assessment for junctions and conduits were rated on a scale of 1-3 with 1-"Good", 2-"Emerging Issue" and 3-"Critical Issue". Condition was visually determined based on the infrastructures ability to convey storm water. Infrastructure unable to convey storm water were given a "Critical Issue" rating; some examples include drainage inlets full of sediment and debris or pipes fully crushed. "Emerging Issue" infrastructure were infrastructure able to pass a constricted volume of stormwater; some examples were partially crushed pipes or drainage inlets partially full of sediment/debris. Infrastructure rated "Good" were visually determined to be able to pass stormwater without constriction.

Junctions

Junctions include drainage inlets, manholes, detention basins, and outfalls. For the given pipe and junctions as provided in the City of Crescent Cities GIS, rim elevations were assigned based on the DEM provided elevations, rim and invert elevations need to be verified through GIS field data collection to the cm. A field form was utilized to input junction elevation data that includes junction ID, GPS location, surface area (if applicable), elevation data to the cm and a conditions assessment. This form must be able to accommodate junctions that may be found in the field that were not represented in the City of Crescent Cities GIS data files.

Table 9.2 Field Data to be Collected for H&H Deficiency Analysis – Junctions

Data Item No.	Data Item	Data Description	Units	Data Collection Method	Priority (High, Medium, Low)
1J	Drainage inlet (DI) and manhole (MH) invert elevations	- Invert elevations to bottom of DI's and MH's.	[ft]	Utilize Eos Positioning Systems #19094354 that captures junction GPS location and measured elevation to the nearest cm.	High
2J	Sediment elevation in drainage inlets and manholes	- Sediment and other debris (e.g. driftwood) build up in DI's and MH's.	[ft]	Visual inspection of difference of pipe invert elevation and approximate elevation of debris. To confirm with tape measure.	High
3J	Pipe inlet and outlet offsets elevation	- The offset is the conduit invert - junction invert	[ft]	Grab conduit invert elevation and grab junction invert elevation. Take difference in office analysis.	High

Data Item No.	Data Item	Data Description	Units	Data Collection Method	Priority (High, Medium, Low)
4J	Extraneous drainage infrastructure	- Any other drainage infrastructure that exists in system that is not represented by the existing pipe network, drainage inlets, or manholes. - Extraneous drainage infrastructure could include, but is not limited to; drainage detention basins, trash capture devices, tide gates, screens, etc.	n/a	1. Delineate on watershed map book. 2. Grab GPS location with Eos Positioning Systems #19094354. 3. Collect GIS data needs (i.e. type of infrastructure, surface area, invert elevation, rim elevation, visual inspection of condition, percent debris blockage, etc.)	High
5J	Outfalls	- Outfall rim elevation, invert elevation, outfall type, location verification	[ft]	- GIS and GPS (Eos Positioning Systems #19094354) field data collection.	High
6J	Drainage inlet rim elevations	- Drainage inlets are typically below DEM scanned surface. Difference in curb elevation and drainage inlet elevation.	[ft]	- GIS and GPS (Eos Positioning Systems #19094354) field collection of rim elevations	Medium
7J	Manhole rim elevations	- Surface elevation of manhole	[ft]	- GIS and GPS (Eos Positioning Systems #19094354) field collection of rim elevations	Low

Conduits

Conduits include closed pipes, ditches, open channel swales, streams, and estuaries. Data needs for drainage system conduits include size, material type, percent full of sediment and debris, and elevation. Conduits identified in the field as critically poor quality should be flagged as ‘critical’ with photo documentation. See the below list for the required input conduit data for the field form:

- Geometry
- Pipe material
- Size
- Percent Full
- Pipe inlet offset elevation
- Pipe outlet offset elevation

The necessary data to be collected was ranked by high, medium, and low priority based on the ability to make model assumptions without the data. It is recommended that all the data requested be collected to ensure model accuracy and validity, however, to accommodate for project schedule and budget, data that could be reasonably assumed without significant impact to the model was ranked as low priority.
Additionally, efforts to collect data should be conducted starting from the known downstream boundaries and work methodically upstream through the watershed. The H&H model is typically less sensitive to differences in drainage infrastructure elevations in more upstream and hilly areas. However, to ensure model validity and that the model captures the existing storm drainage system, it is recommended that all the requested field data is collected at all

locations within the project area. See Table 2 below for the conduit field data to be collected for the H&H deficiency analysis.

Table 9.3 Field Data to be Collected for H&H Deficiency Analysis – Conduits

Data Item Number	Data Item	Data Description	Units	Data Collection Method	Priority (High, Medium, Low)
1C	Pipe inlet and outlet offsets elevation	- The offset is the conduit invert - junction invert	[ft]	Utilize tool that captures junction GPS location and measured elevation to the nearest cm.	High
2C	Extraneous drainage infrastructure	- Any other drainage infrastructure that exists in system that is not represented by the existing pipe network, drainage inlets, or manholes. - Extraneous drainage infrastructure could include, but is not limited to; drainage detention basins, trash capture devices, tide gates, screens, etc.	na	1. Delineate on watershed map book 2. Grab GPS location. 3. Collect GIS data needs.	High
3C	Pipe diameter	- Diameter of existing pipes	[ft]	- Visual Inspection, Input on form - Form to include size options from 6” to 48” diameter	High
4C	Pipe material	- Some materials of pipes are known (majority RCP). This will be marked prior to field investigations on GIS map.	na	- Visual inspection, input on form. - Pipe materials to include: HDPE, CMP, ACP, PVC, and Concrete.	Medium
5C	Collecting “other” existing drainage infrastructure	- Location of all drainage ditches, swales, or other drainage open channels	na	- Field collection of invert and rim geometry and roughness (material, debris blockage approximation).	Medium
6C	Pipe condition assessment	- Pipe condition assessment to include any sediment build up in the pipe.	[%]	- Sediment buildup to be estimated as a percentage of pipe.	Low

C-3 Background Information Review

Background information received from the City was incorporated into H&H model and CIP development. Below in Table 9.4. is a summary of the utilized background data and how it was incorporated into H&H model and CIP development.

Table 9.4 City of Crescent City SDMP Meta Data and incorporation into the project development - summary

Name	File Description	Project Development Incorporation Description
2006-02 Drain Basin 500 Study	List of drainage inlet locations and depths for the K-Street Outfall (Outfall 2)	Field Data collection data validation
2013-06 Drainage Study	Drainage study near C St memorandum, volumes, and location maps.	Field Data collection data validation
2014-06-18 Drainage Survey for Augustine Meeting	Further assessment of drainage study on C St.	Field Data collection data validation
Historic 'as-builts' of Storm Drain Infrastructure	Piecewise hand-drawn as-builts of storm drain infrastructure from 1965 – 2013	Field Data collection data validation
MS4 Permit	Most recent MS4 Permit	SDMP development
As-builts and plans of Front St., C St., D St., and F St.	Planned and partially in-construction drainage improvement projects to take place on Front St., C St., D St., and F St.	Field Data collection data validation
As-builts of Harding St. Culvert	As-builts of Harding Ave Culvert Repair Project	Field Data collection data validation
Storm Drain Capacity Analysis 3rd St Drainage from J to K St.	Rational Method analysis assessing the existing storm drainage capacity on 3rd St. from J to K St.	Field Data collection data validation; H&H Model validation
2024.02.23 Front Street Play to L Plans	Plans for storm drain infrastructure projects on Front Street.	H&H Model incorporation
City Priority Criteria	A ranked list of criteria the City wants considered in project development and prioritization.	CIP development and prioritization
Critical Facilities	A shape file delineating buildings of high importance to the City.	CIP development and prioritization; Risk Analysis

C-4 Flood History and Observations

Data on historic floods is limited to testimonial data and significant historical events. The City was able to provide a list of known historic flooding locations and dates. Flooding events observed by the City staff that drainage inlets were observed to overflow are described below in Table 9.5.

Table 9.5 List of rainstorm events that drainage inlets and manholes were observed to overflow

Date	Location
4/25/2006	Super 8 Motel 685 US 101
10/27/2008	3rd St between K St. and L St.
2/11/2009	2nd St. and B St. to 3rd St. and C St.
12/29/2011	3rd St. and J St.
11/29/2012	C St. between 4th St. and 5th St.

Date	Location
5/19/2015	3rd St. and M St.
12/9/015	3rd St. and I St.
12/13/2015	5th St. and C St.
1/19/2016	C St.
4/27/2018	4th St. and C St.
12/20/2018	5th St. and C St.

C-5 Field Investigations Results and Data Processing

Through field data collection, data was collected for 67 manholes, 405 drainage inlets, 10 outfalls, and approximately 67,300 linear feet of pipe. Additionally, the watershed and sub watershed (subcatchments) boundaries were defined and confirmed. The field data was processed and organized through Microsoft Excel before being imported directly into the PCSWMM H&H model. After the data was imported into the model, further data processing was required to input the material through the Mannings' roughness coefficient for the conduits, routing the subcatchments to their concentrated flow outlet, interconnecting the drainage system with topographically identified drainage swales and street flow. See Figure 2.1 for the existing inventory of the City's storm drainage infrastructure.

Appendix D

Computation Model Development

Computational Model Development

This section provides the approach and information required to develop the PCSWMM model to simulate and evaluate a series of design storm events. The “base conditions” model is to represent the City as accurately as possible with the existing infrastructure and infrastructure condition.

D-1 Model Approach Overview

The approach of developing the base conditions model is to first incorporate the data collected in field investigations. The data incorporated into the model from field collection is summarized in in Appendix C of the Crescent City Strom Drain Master Plan. After the existing infrastructure data are incorporated, representative design storms, watershed boundaries and characteristics, and outfall conditions are incorporated into the PCSWMM computational model.

The purpose of the H&H analysis approach is to evaluate the existing and proposed conditions for relevant design storm events, then to assess the changes in the amount of storm water runoff and any resulting surface flooding to inform drainage enhancement project development. This analysis approach includes the following tasks:

1. **Integrate Data Collected from Field Surveys.** Use inventory of the existing drainage infrastructure collected from field surveys to model drainage network including conduits, junctions, storages, and outfalls.
2. **Design Storms.** The design storms evaluated in the analysis include the 2-year, 10-year and 50-year return period, 24-hour duration storm events. Forecasted changes to precipitation in the given return frequencies as a result of climate change were also included in the analysis.
3. **Outfall Boundary Conditions**. Determine flood zone from FEMA Flood Hazard Mapping. For ocean outfalls, apply applicable Sea Level Rise (SLR) assumptions to develop downstream boundary condition.
4. **Subcatchment Delineation.** Delineate subcatchment areas and determine flow routing. During this task the hydrology parameters used to calculate the stormwater runoff flow rate such as area, flow length, slope, and curve number are developed.
5. **1D Computational Base Condition Model Simulation.** Simulate design storm events and evaluate stormwater runoff quantities and flooding under existing conditions. This step is a 1-dimensional link-node analysis that estimates the stormwater routing and runoff from the Project area using a computational model, PCSWMM 2024 (Version 7.7.3895). The model uses the Natural Resources Conservation Service (NRCS) Time of Concentration Method, Watershed Lag Method to calculate the runoff volume and flow rates from each subcatchment to each junction. The model then calculates the flow rate and volume of stormwater routed to the modeled junctions and flooding out of the modeled junctions.
6. **2D Computational Existing Condition Model Simulation.** Develop a 2-dimensional base-conditions model to assess the flooding location, extent duration, and volume within the City boundaries.
7. **Drainage Deficiency Analysis.** Identify and prioritize drainage deficiencies within the City boundaries based on flood locations simulated in Step 6. Prioritization will be aligned with City feedback and objectives.
8. **1D Computational Proposed Condition Model Simulation.** After developing a prioritized list of project alternatives to address drainage deficiencies, simulate design storm event to evaluate the level of service provided by the drainage improvement alternatives.

D-2 Design Storms

The design storms used for the analysis is the hypothetical depth of rainfall that would occur for a specified return frequency (once every 2, 10, and 50 years), duration (24-hours) and timing of distribution. All values are based on the historic rainfall records for the area.

D-2-1 Design Storms Type

An SCS Type IA design storm type was selected based on the location of the Project and using the Army Corp of Engineers HEC-HMS Technical Reference Manual. The reference map of the approximate geographic boundaries is shown below in Figure 9.6.

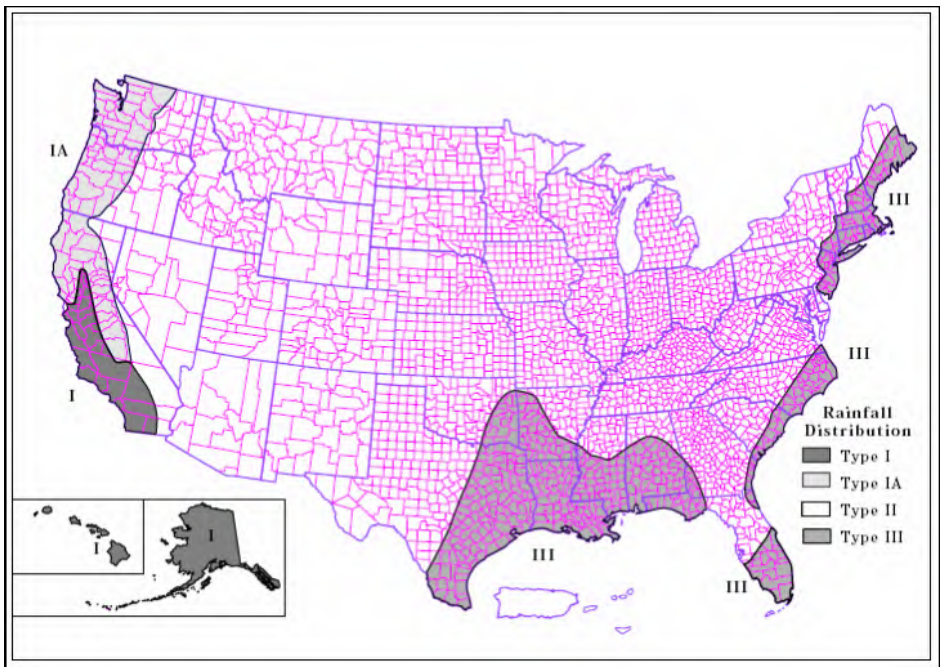


Figure 9.6 Approximate Geographic Boundaries for SCS Storm Distributions. (From HEC-HMS Technical Reference Manual, ACOE).

D-2-2 NOAA-14 Precipitation Frequency Estimates

The values for the precipitation amounts were obtained from National Weather Service NOAA Hydrometeorological Design Studies Center Atlas 14 for point precipitation frequency estimates. The Atlas provides a site-specific intensity-duration-frequency curve for precipitation, as shown in Figure 9.7. A table of values for multiple recurrence intervals and duration is presented in **Attachment 2**. The analysis evaluates the 24-hour storm duration for the 2-year (4.35 inches), 10-year (6.32 inches), and 50-year (8.25 inches) return. A graphical representation of the rainfall intensities is shown in Figure 9.7.

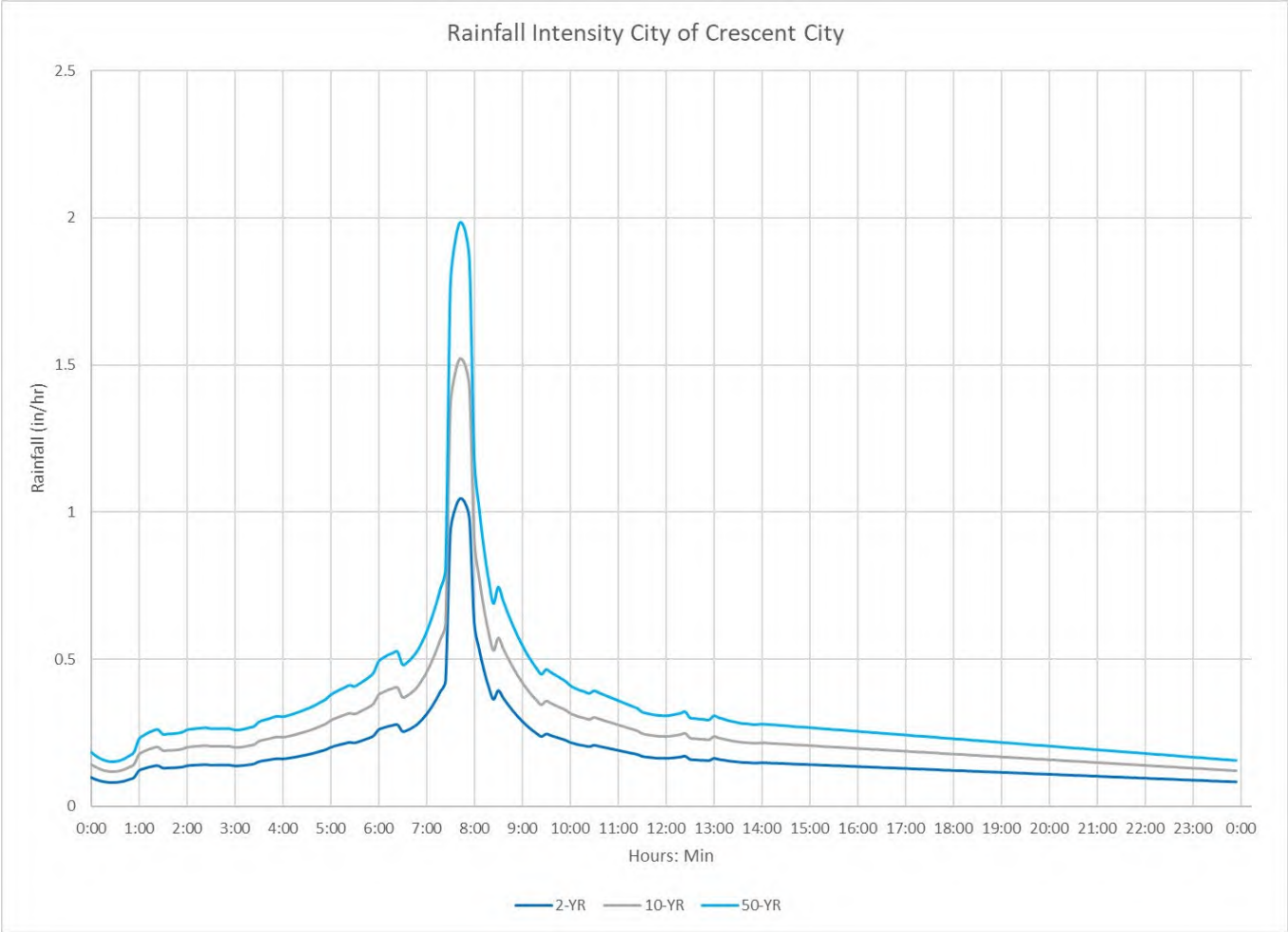


Figure 9.7 Rainfall Intensity Curves for Multiple Return Periods (SCS Type IA).

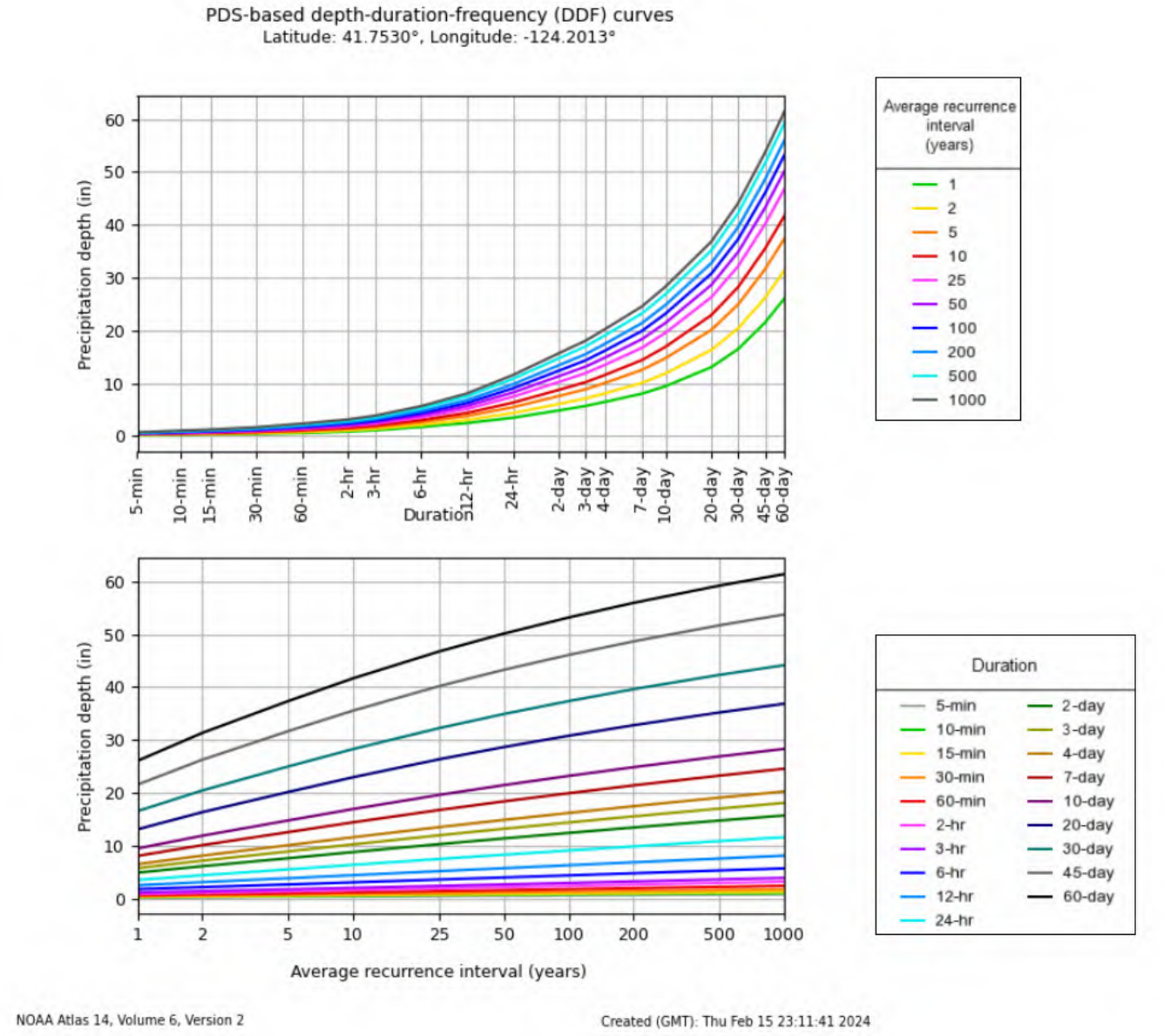


Figure 9.8 Intensity Duration Frequency Curve for Precipitation at Project Site.

D-2-3 Cal-Adapt Climate Forecast and Design Considerations

The California Department of Water Resources' Climate Change Technical Advisory Group produced a set of climate change simulation forecasts that project future climate conditions by region. These simulations are general circulation models that incorporate changes in the Earth's atmosphere, oceans, lands, and ice cover (California Energy Commission, 2024). Over a 30-year historical period from 1961 – 1990, the maximum 1-day precipitation depths were measured and recorded, shown below in the brown shaded region in Figure 9.9 under "Modelled Historical." The black line within the Modelled Historical shaded region represents the actual measured precipitation maximum intensities in in/hr over a 24-hour period. The brown line within the Modelled Historical shaded region represents the modelled average precipitation intensity over that period. The base line historical precipitation projections were modelled under two scenarios: Medium Emissions and High Emissions. The Medium Emissions (RCP 4.5) is a climate projection that assumes that global greenhouse gas concentrations will continue to increase based on historical projections, peak

around mid-century (~2050), then decline (Pierce, D. W., J. F. Kalansky, and D. R. Cayan (Scripps Institution of Oceanography), 2018). This projection would result in an increase in localized energy of 4.5 Watts per square meter by the year 2100, aka a representative concentration pathway (RCP) of 4.5. The RCP 4.5 scenario has an accompanying projected temperature increase, change in annual and maximum precipitation frequencies, and other climate related consequences. Alternatively, the High Emissions (RCP 8.5) scenario is a climate emissions model that assumes a continuous increase of global greenhouse gas concentrations based on historical rates (Pierce, D. W., J. F. Kalansky, and D. R. Cayan (Scripps Institution of Oceanography), 2018). The projected 30-year average change and respective ranges of change for each simulation are summarized below in Table 9.6. Based on these modelled expected changes to rainfall intensities, the NOAA-14 projected rainfall intensities are subject to change, these changes are summarized below in Table 9.7.

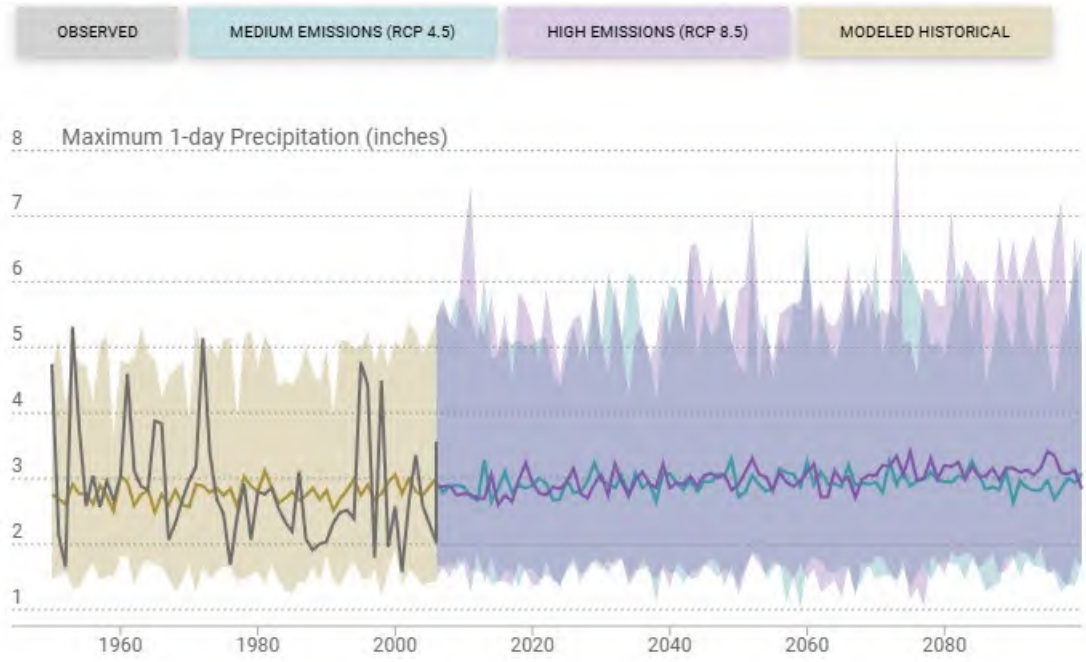


Figure 9.9 Maximum 1-day Precipitation for three 30-year time periods (Livneh, 2015).

Table 9.6 Maximum 1-day Precipitation for three 30-year time periods (Livneh, 2015)

Simulation	Time Period (years)	Change from baseline (in)	30-year average (in)	30-year range (in)
Baseline (Modelled Historical)	1961 – 1990	0	2.771	2.516 – 2.990
Mid-Century (Medium Emissions (RCP 4.5)	2035 – 2064	+0.194	2.964	2.533 – 3.275
Mid Century (High Emissions RCP 8.5)	2035 – 2064	+0.219	2.990	2.588 – 3.370
End Century (Medium Emissions RCP 4.5)	2070 – 2099	+0.175	2.946	2.558 – 3.487
End Century (High Emissions RCP 8.5)	2070 – 2099	+0.374	3.145	2.663 – 3.691

Table 9.7 *RCP 4.5 and RCP 8.5 projected changes in 30-year periods to the NOAA-14 Rainfall Intensity for the 2-yr 24-hour, 10-yr 24-hour, and 50-yr 24-hour rainfall events*

Return Period	NOAA-Atlas 14 Intensity Projections	Historic (October 1960 - Sept 1990)	Mid Century (October 2034 - Sept 2065)		End Century (October 2069 - Sept 2099)	
(years)	*(in)*	*(+0 in)*	*RCP 4.5 (+0.194 in)*	*RCP 8.5 (+0.291 in)*	*RCP 4.5 (+0.175 in)*	*RCP 8.5 (+ 0.374 in)*
2-year, 24-hour storm	4.35	4.35	4.54	4.64	4.53	4.72
10-year, 24-hour storm	6.32	6.32	6.51	6.61	6.50	6.69
50-year, 24-hour storm	8.25	8.25	8.44	8.54	8.43	8.62

Due to the variability in projected maximum 1-day precipitation events, it is recommended that for the preliminary assessment of drainage performance, the 50-year 24-hour NOAA-14 simulation be utilized for design purposes. Utilizing the 50-year 24-hour rainfall event provides a conservative and flexible assessment of expected rainfall intensity patterns and allows the City a longer period to secure funding and develop proposed projects.

D-3 Downstream Boundary Conditions

The downstream boundary conditions were determined based on location, elevation, and receiving water body characteristics. For the City, eight (8) tidal and one (1) normal outfall were determined. See Sections D-3-1 and D-3-2 for details of these analyses. Outfall 1 (OF1) is the normal conditions outfall and Outfalls 2 – 9 (OF2 – OF9) are tidal outfalls. See Figure 9.10 below for the outfall locations with respective drainage groups contributing to the outfall.

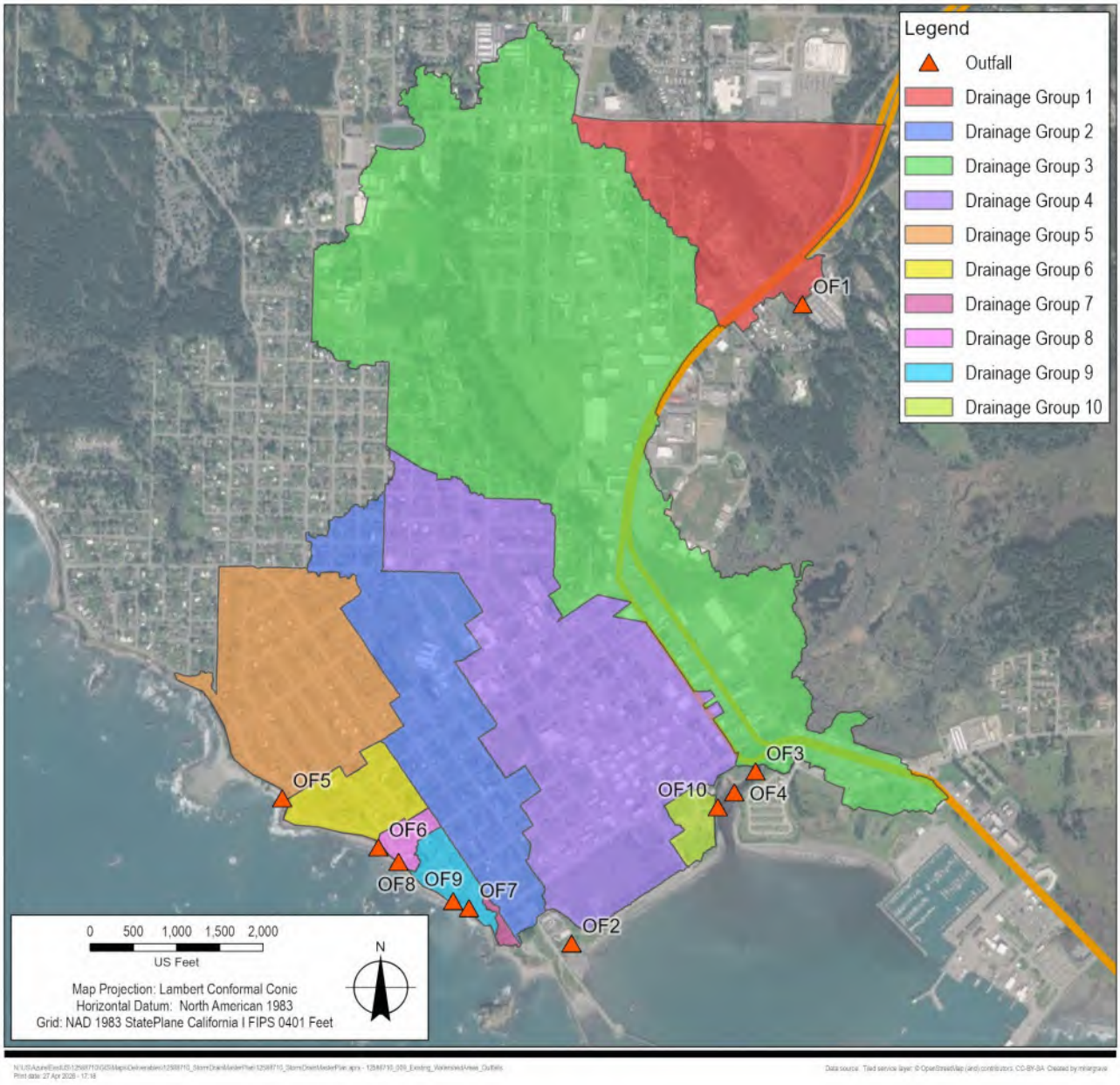


Figure 9.10 Outfall locations with respective drainage groups.

D-3-1 Tidal Outfall Boundary Conditions

Tidal conditions were inputted into the model with guidance from Chapter 820 – Cross Drainage of the Federal Highway Design Manual (Highway Design Manual, 2020). The City of Crescent City falls within Province 1 of the California Open Coast and Bayfront Water Level, shown below in Figure 9.11. The controlling Gage Station is Buoy 9419750, located off the coast of Crescent City. When developing the tidal outfall boundary conditions for each respective 24-hour design storm simulation (2-year, 10-year, and 50-year), the respective tailwater elevation (ft) is a function of a one-percent compound frequency curve, made for each respective Province. The Province 1 One-Percent Compound Frequency Curve was developed by the Federal Highway Design Manual in accordance with Buoy #9419750 data obtained from NOAA and is shown below in Figure 9.12.

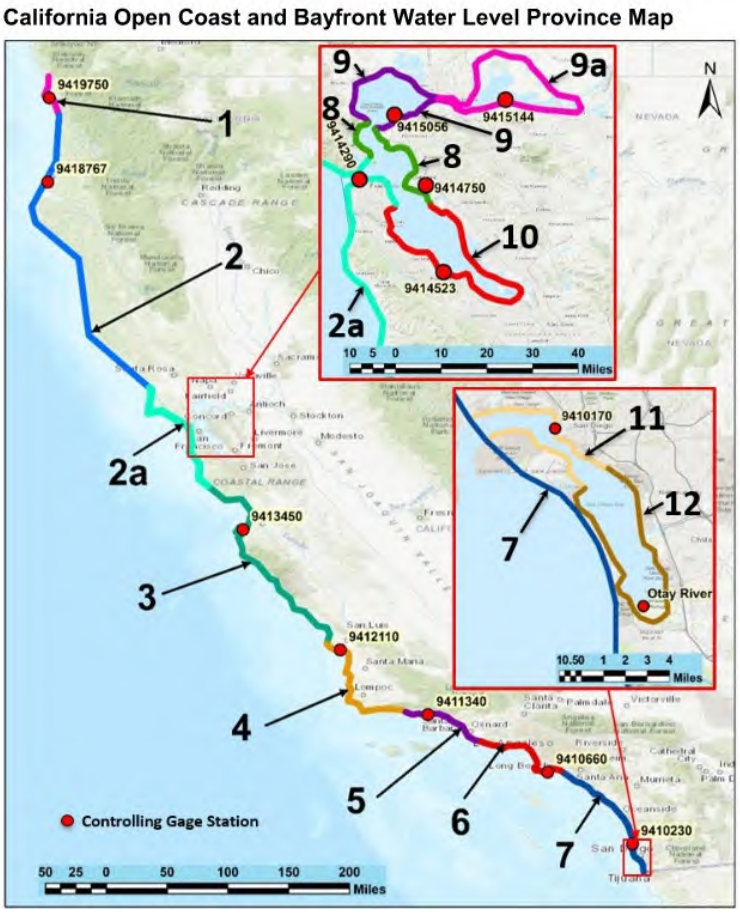


Figure 9.11 California Open Coast Province Map (Highway Design Manual, 2020).

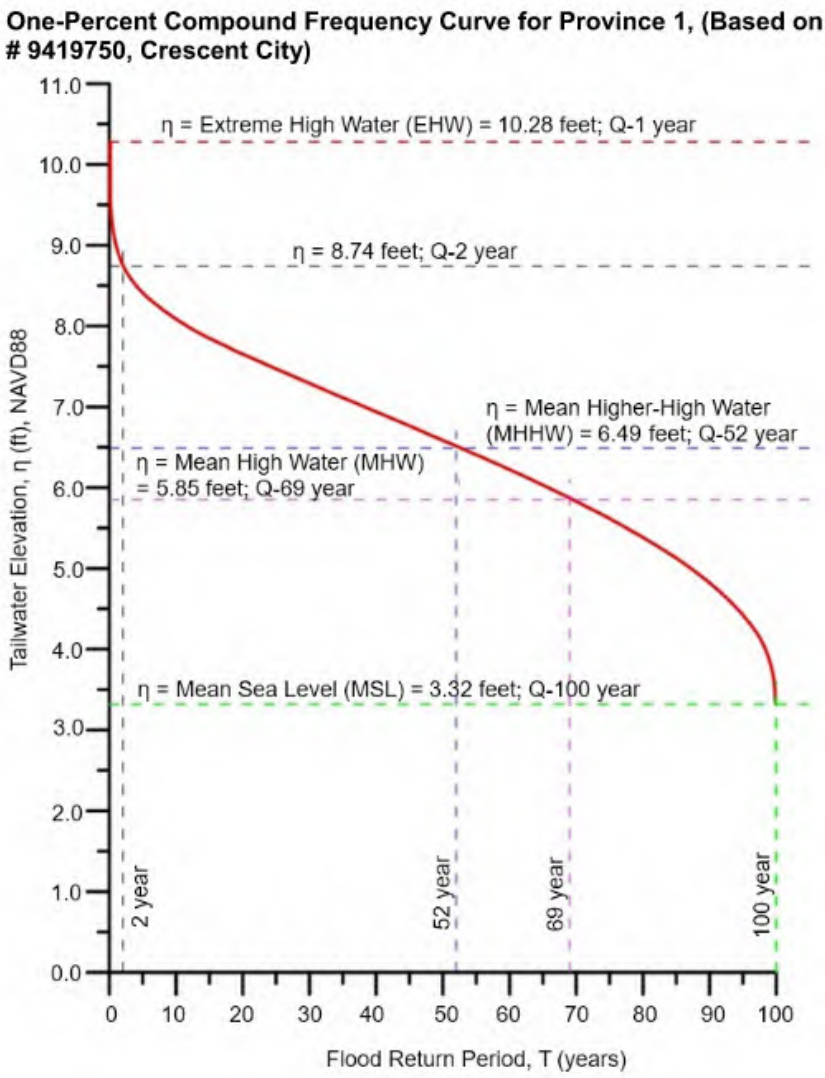


Figure 9.12 One Percent Compound Frequency Curve for Province 1 (Highway Design Manual, 2020).

Utilizing the MHH tailwater elevation in feet from the One-Percent Compound Frequency curve, historic tidal data was obtained through the NOAA tidal data base. The tidal data was analyzed to find corresponding tidal events with the respective MHH water tidal levels for the 2-yr, 10-yr, and 50-yr events based on the one-percent compound frequency curve for Province 1. The MHHW level for the 2-yr event was identified to be 8.75-ft, for the 10-yr event was 8.1-ft, and 6.6-ft for the 50-year event. The tidal events were selected for a 24-hour event and aligned with the rainfall hydrographs for the 2-yr, 10-yr, and 50-yr rainfall events. The peak of the rainfall event was aligned with the peak tidal elevation. See Figure 9.13, Figure 9.14, and Figure 9.15 below for the aligned 2-yr, 10-yr, and 50-yr 24-hour design storm and tidal events, respectively. See Section D-2-2 for further details of the development of the design storm rainfall hydrographs.

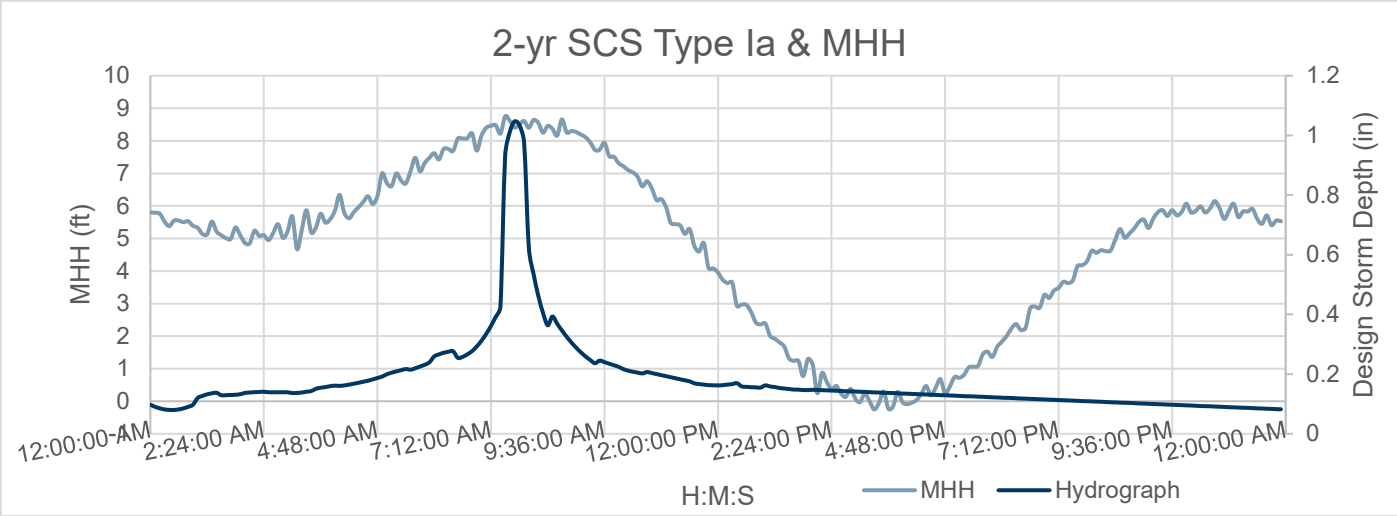


Figure 9.13 ***2-yr SCS Type 1a 24-hour design storm hydrograph with peak rainfall aligned with peak MHH for 2-yr compound frequency tidal event.***

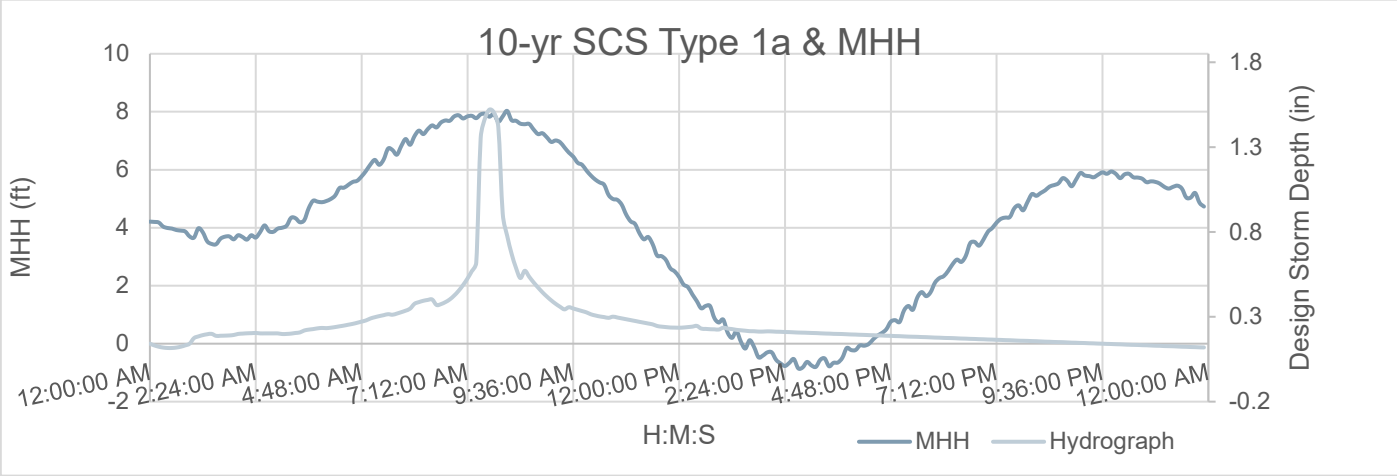


Figure 9.14 ***10-yr SCS Type 1a 24-hour design storm hydrograph with peak rainfall aligned with peak MHH for 10-yr compound frequency tidal event.***

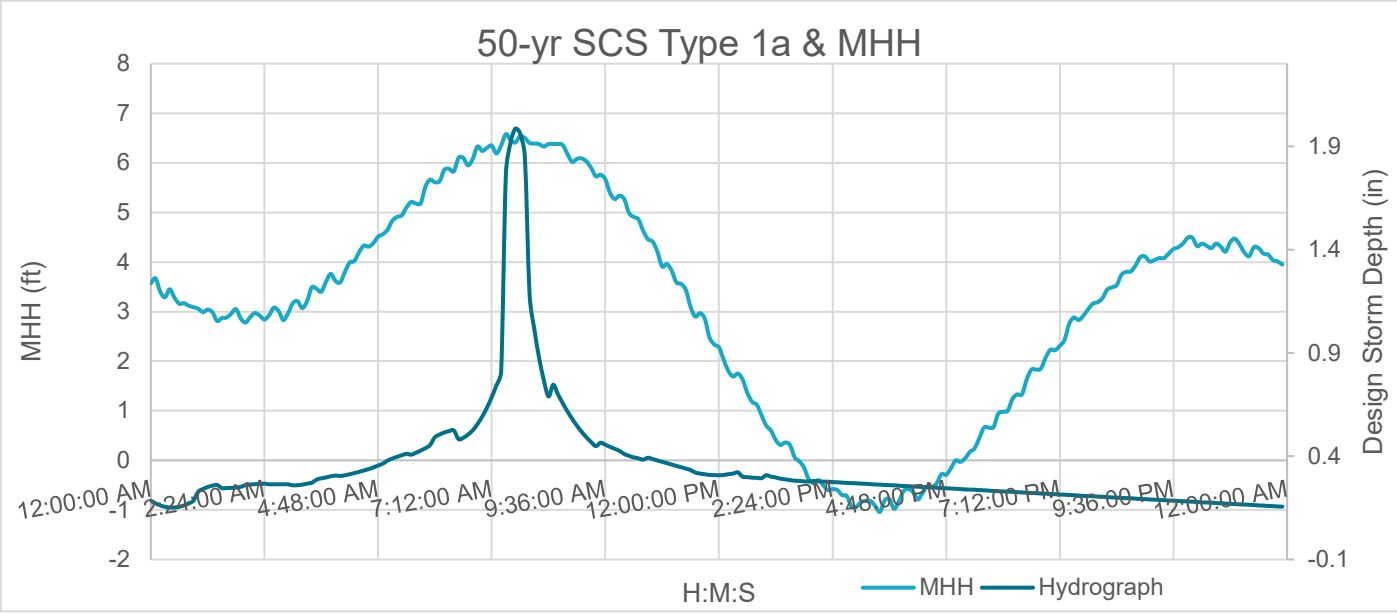


Figure 9.15 ***50-yr SCS Type 1a 24-hour design storm hydrograph with peak rainfall aligned with peak MHH for 50-yr compound frequency tidal event.***

D-3-2 Normal Outfall Boundary Conditions

The Project site is located within the Elk Creek FEMA floodplain Zones A and X. Of the ten (10) drainage outfalls, Outfall 1 is the only non-tidally influenced outfall, located within FEMA floodplain Zone A. Figure 9.16 below provides the National Flood Hazard Layer FIRMette illustrating the location of Outfall 1 with respect to the site floodplains. Detailed hydraulic analyses are not performed for Zone A floodplains, therefore no base flood elevations exist (Federal Emergency Management Agency, 2024). Additionally, Zone X floodplains are characterized as areas of minimal flood hazard. Outfall 1 is located at an elevation of approximately 14-ft (NAVD88), and the highest water level of Elk Creek in the surrounding drainage site was determined to be approximately 10ft (NAVD88) at maximum capacity. Because the outfall is significantly higher than the maximum elevation of the receiving waterbody, it is assumed that the outfall will not receive backflow and is under normal conditions.

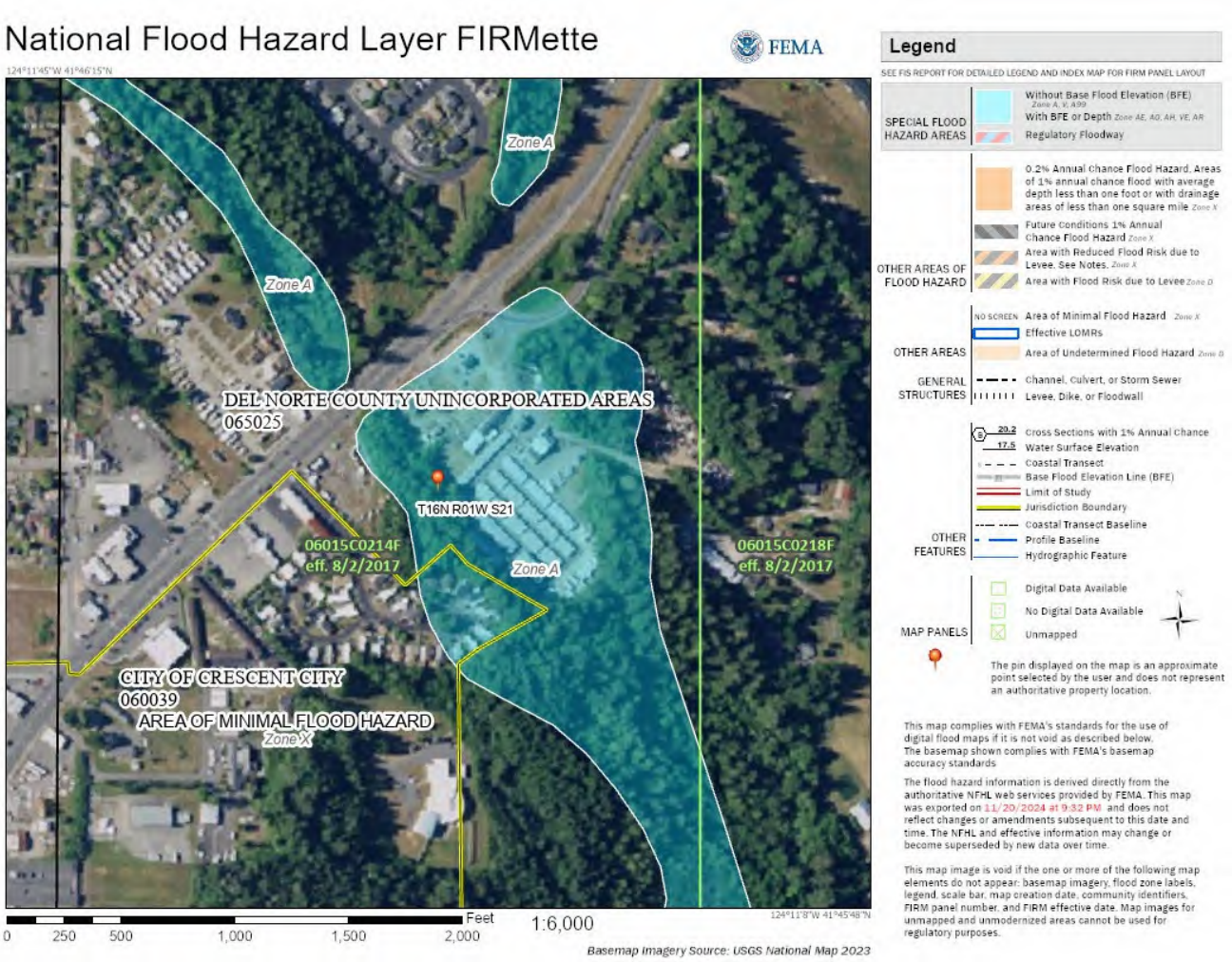


Figure 9.16 *FEMA National Flood Hazard Layer FIRMette illustrating location of Outfall 1 (Federal Emergency Management Agency, 2024).*

D-4 Watershed Delineation and Characterization

D-4-1 Subcatchment Delineation

The subcatchments were initially defined using the watershed delineation tool based on a high-resolution digital elevation model, and subcatchments were then refined using survey data on other infrastructure in PCSWMM modeling software. Site topography was used to refine subcatchments and routing points within the drainage network and hard structures such as roads, buildings, and parking lots. Subcatchments were sized depending on how water was routed, in cases that the surface flow runoff routed to the same point within the drainage network, a larger subcatchment was delineated. There is a total of 403 subcatchments within the larger watershed, illustrated below in Figure 9.17.

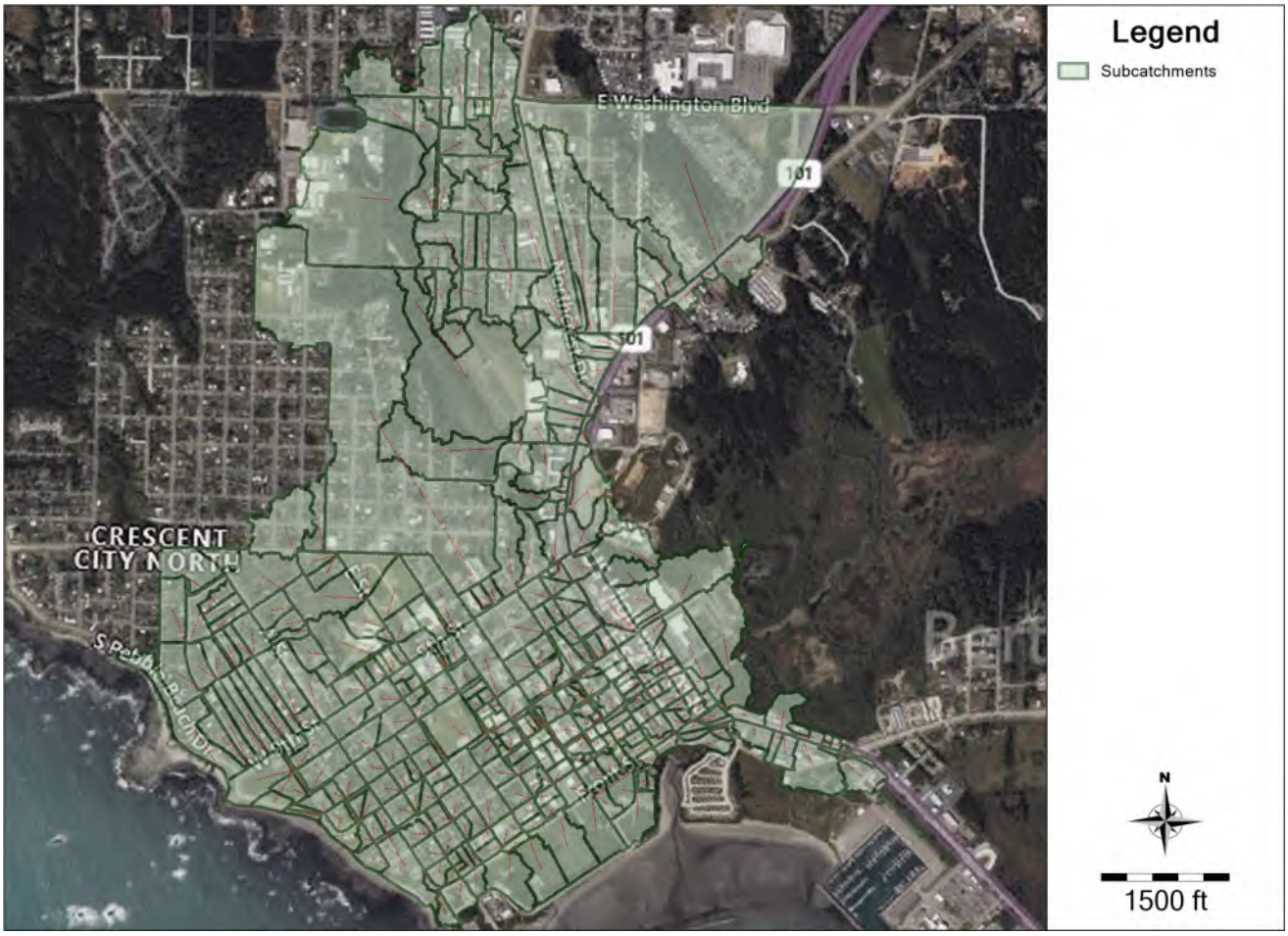


Figure 9.17 ***Watershed delineated subcatchments. Dark green represent subcatchment boundaries, red perforated lines illustrate point of concentrated flow.***

D-4-2 Subcatchment Parameters

To characterize the hydrologic properties of each subcatchment, hydrologic parameters were calculated and assigned to their corresponding subcatchment including percent impervious area vs. pervious area, SCS curve numbers, average slope, and flow lengths. Calculations were performed in excel and imported to PCSWMM through the import function that assigns each parameter to its respective subcatchment. (**Attachment 3**).

Flow Length and Slope

Flow length and slope for the subcatchments were determined through developing a flow path layer in the PCSWMM model, which represents the average maximum length of overland sheet flow and shallow concentrated flow. These flow lengths are then used to calculate subcatchment width by dividing the subcatchment area by its subsequent flow length. Flow paths were then manually determined within the model using site topography for each subcatchment as its determining characteristic.

Subcatchment Curve Number and Pervious Area

The SCS Curve Number for each subcatchment was calculated in excel as a function of area percentage of hydrologic soil group (A, B, C, and D) and land use description. The area percentage of subcatchment land use with respect to proportion of pervious to impervious area was determined by using aerial imagery to assess soil composition, soil quality, and land use (i.e. locations of buildings, roads, fields, forests, etc.). Data from the USDA Web Soil Survey was used to determine the site soil composition, then percent land use was applied based off aerial imagery via PCSWMM

and Google Earth Pro. These parameters were then used to calculate Curve Numbers to be assigned to each subcatchment. (**Attachment 4**).

Subcatchment Time of Concentration

Time of Concentration is critical to calculate the runoff flow for each subcatchment into the drainage network with respect to the design storm. The average slope for the subcatchments was determined by calculating the average slope in each subcatchment based on defined area and topography. The process was done by using the "Set DEM Slope" tool in PCSWMM for each subcatchment, Slopes, flow paths, and curve numbers are then utilized by the PCSWMM SCS Type II processor to calculate the time of concentration. The areas for each subcatchment were automatically calculated based on its geometry and populated into the subcatchment attribute table in the model. The time of concentration was determined using the SCS Method Type II (Equation 1 & 2), a function of flow length/width, slope, and curve number.

$$t_c = \frac{L^{0.8}(S+1)^{0.7}}{1140Y^{0.5}} \qquad \textit{(Equation 1)}$$

Where:

$t_c = time\ of\ concentration\ (hrs)$

$L = flow\ length\ (ft)$

$S = maximum\ potential\ retention\ (see\ Equation\ 2)$

$Y = average\ watershed\ land\ slope$

$$S = \frac{1000}{CN} - 10 \qquad \textit{(Equation 2)}$$

D-5 Surface Flow Routing Methodology

The flow routing through the system incorporated the existing, planned and in-construction drainage system infrastructure and open channel flow with the larger water flow network through the system to the identified outfall locations (OF 1 – OF 10). The utilized flow routing methods are detailed below as existing drainage infrastructure flow routes, street flow, and concentrated surface flow, respectively. The planned and in construction drainage elements system flow routing were included per the information provided by City staff.

D-5-1 Existing Drainage Infrastructure Flow Routes

The first step to delineate the existing drainage infrastructure flow routes was to load in the data of all identified existing conduits (pipe networks and open channels), junctions (grate inlets, pipe connections, stormwater vaults, etc.), and stormwater depression basins. Existing system infrastructure with appropriate defining parameters were uploaded into the H&H model with field data collected. See **Appendix C** above for more details on field data collection assumptions and methodology. Existing condition conduit diameter, percent blockage, material type, invert and rim elevations were loaded into the model. Existing condition junction type, invert elevation, rim elevation, were also loaded into the model. For junctions and/or conduits that were inaccessible for field collection, their specs were assumed based on the

upstream and downstream conditions. See **Attachment 5** for the existing "base" conditions model data for junctions, conduits, and outfalls. See Figure 9.18 below for the plan view of the project's existing drainage infrastructure network.

Drainage runoff basins and open channel flow were identified within the City drainage system boundaries. Drainage runoff basin surface areas and depth, and open channel lengths and cross-sectional areas were assigned based on the site Digital Elevation Model (DEM) and utilizing the Storage Creator tool in PCSWMM to delineate the dimensions of each drainage basin. These drainage basins were assigned respective storage curves based on these delineated dimensions. Drainage infrastructure and contributing surface runoff were categorized by their connected outfall. Drainage infrastructure contributing to a common outfall can impact infrastructure upstream and/or downstream and therefore should be considered together for project development. For example, if an upstream pipe was upsized with no consideration for the downstream impacts, there is potential the additional flow passing through the upsized upstream conduit could lead to unexpected flooding within the downstream network.

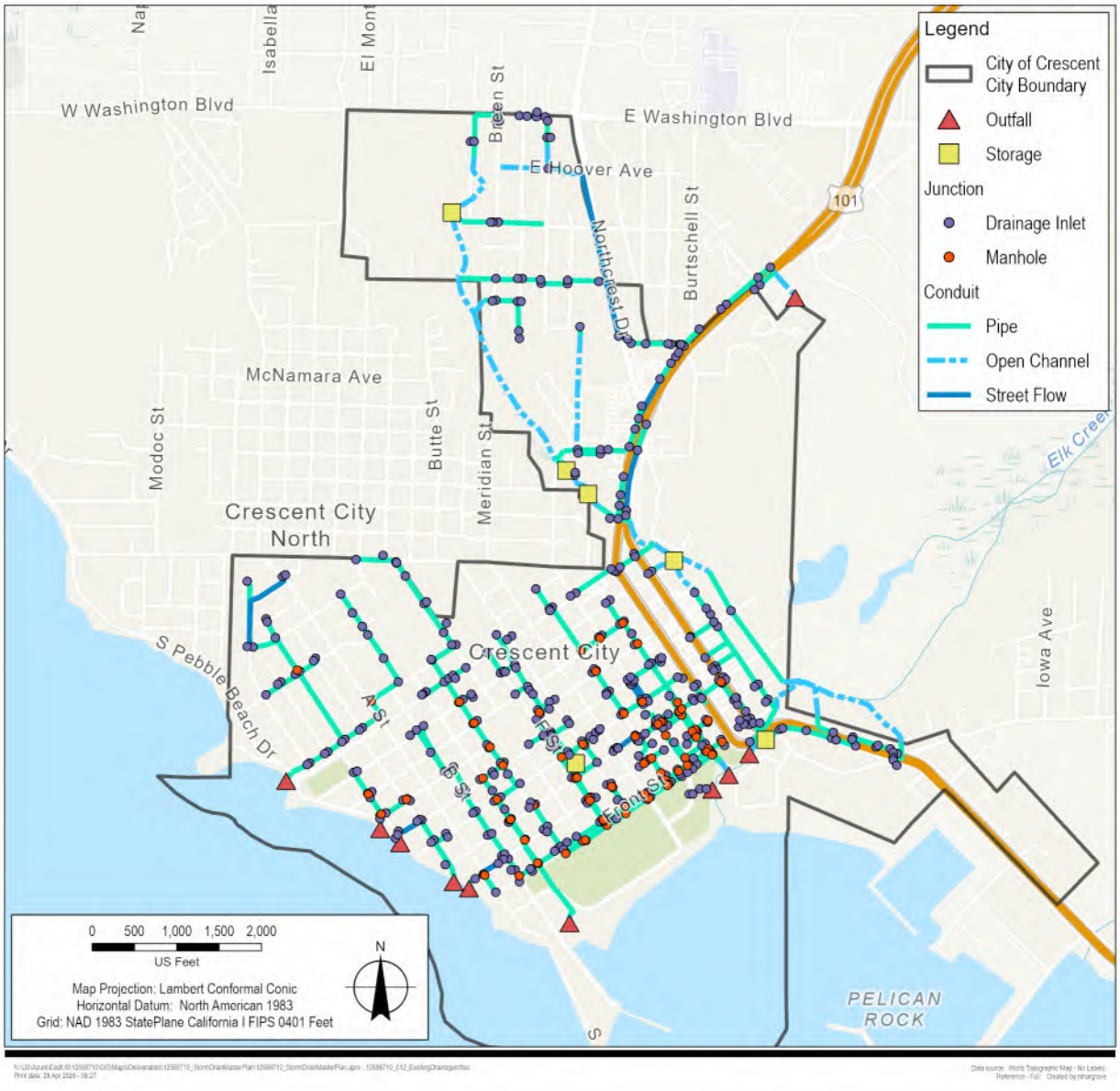


Figure 9.18 ***Existing Drainage Infrastructure Flow Route Plan View.***

D-5-2 Dual Drainage Flow Routing

Dual drainage flow routing was considered with this drainage system analysis. Dual drainage flow routing considers a major and minor drainage system. Major drainage systems are defined as drainage systems designed to capture water conveyance on the surface, for example drainage swales or ditches, road gutter flow, or storage detention ponds. Minor drainage systems are characterized as underground drainage conveyance, typically through circular pipe connections. Open channel and street flow connections shown above in Figure 9.18 are considered major drainage system components as the blue underground pipes are minor drainage system components. See Figure 9.19 below for a further description of dual drainage system components.

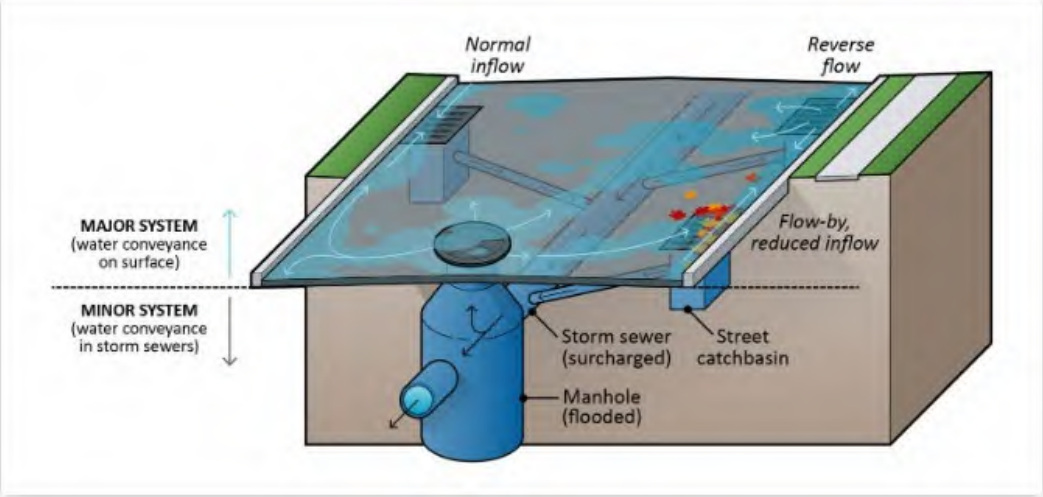


Figure 9.19 Dual drainage system components (CHI PWSWMM, 2024).

D-5-3 Model Parameters

Junctions

Junctions within the drainage system include manholes, drainage inlets, and blind junctions. This section describes the existing junctions within the project area and how they contribute to the dual drainage flow routing.

Manholes

Manholes are defined as locations where conduits join that are accessible for maintenance through a manhole. Throughout the project site, a total of 66 manholes were identified, with a wide range of depth and general condition of the manhole. See Figure 9.20 below for an example of a manhole near Front St. Manholes were identified throughout the City boundary on roads, sidewalks, and sometimes in grassy areas, like in Figure 9.20. It is assumed that all flow routing to manholes in the drainage system occurs through connected closed-pipe conduits. In drainage flow routing, no surface land flow was linked directly to manholes. Manholes serve as maintenance access points of the minor drainage system.



Figure 9.20 Manhole investigated during data collection near Front St.

Drainage Inlets

For the purposes of this analysis, drainage inlets were defined as any junction designed to receive surface flow runoff. Drainage inlets identified in the drainage system include curb inlets, grate inlets, and drop inlets. Throughout the project site, a total of 404 drainage inlets were identified. These drainage inlets had a wide range of depth, condition, apparent age, and percent blockage. See Figure 9.21, Figure 9.22, and Figure 9.23 below for a few of the found drainage inlets of varying types and conditions. Subcatchment concentrated surface flow runoff was linked directly to drainage inlets, shown by the red perforated lines in Figure 9.18. Drainage inlets serve to connect the major drainage system with the minor drainage system.



Figure 9.21 Curb inlet found in field data collection.



Figure 9.22 Grate inlet found in field data collection.



Figure 9.23 Grate inlet found in field data collection.

The Federal Highway Administration recommendation for inlet design considers the following four (4) typical inlet types: grate inlets, curb-opening inlets, combination inlets, and slotted inlets. See Figure 9.24 below for a summary of the storm drain inlet types. Through field investigations, these four inlets were found throughout the City's boundaries, with the highest proportion being grate inlets and combination inlets. The Hydraulic Engineering Circular No. 22 (HEC-22) provides an interception capacity of inlets on grates that estimates the amount of flow efficiency a grate can intake under a given set of conditions. For the purposes of this analysis, the drainage inlets assigned to the junctions were given an assumed value representative of Grate A shown in Figure 9.24. However, in further project development, it is recommended that a more detailed drainage inlet capacity analysis be conducted with recommendations from the Federal Highway Design Manual.

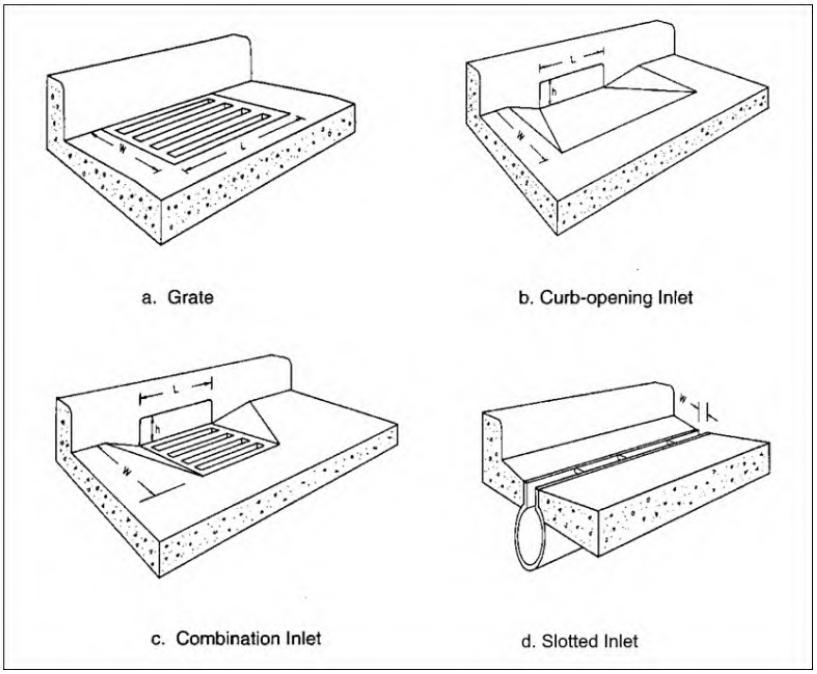


Figure 9.24 Storm drain inlet types summary (Federal Highway Administration, 2024).

Blind Junctions

Blind junctions include conduit connections without an accompanying drainage inlet or manhole. These junctions were not linked to the surface flow runoff of the system and are majorly underground pipe connections. Blind junctions had rim elevations assumed by upstream pipe outlet offset elevation and invert elevations assumed by downstream pipe offset elevation. Blind junctions represent a large proportion of the minor drainage network but have no direct connection to the major drainage network.

Closed and Open Channel Conduit Analysis

The closed and open channel conduits in the system represent all flow networks that interconnect the junctions. Underground pipe networks are within the minor drainage system as surface exposed open channel flow and street flow are part of the major drainage system. See Section D-5-2 for more details on the major and minor drainage systems.

Pipes

There are approximately 67,000 linear feet of underground storm drainpipes that convey the City's drainage. This linear footage of drainage pipe was summarized based on diameter, shown below in Table 9.8. See Section 5 for further details of existing pipe networks by diameter, length and material by Drainage Group.

Table 9.8 Linear feet of drainage pipe in Crescent City drainage system by diameter

Diameter (ft)	Linear feet of pipe (ft)
0.5	145
0.67	936
0.75	327
0.8	199
1	24,331

Diameter (ft)	Linear feet of pipe (ft)
1.2	45
1.25	4,084
1.3	109
1.4	95
1.4	14,304
1.6	29
2	11,822
2.25	195
2.5	2,915
2.67	193
2.75	226
3	6,117
4	1,181

Open Channel Flow

Open channel flow within the drainage network consisted of vegetated swales, creek flow, canals, and other miscellaneous channels that convey stormwater between nodes in the system. The open channel flow networks are part of the major drainage system, illustrating how concentrated runoff contributes and enters the minor drainage network. There is approximately 87,000 linear feet of open channel flow conveying stormwater through the drainage system. A major contributor to open channel flow in the drainage network is the channel “Elk Creek Channel” that runs parallel to Cemetery Rd. and drains to the Elk Creek marshland to the southeast. Access to survey the Elk Creek Channel was limited due to a lack of safe access points. The high-resolution DEM was utilized to estimate the geography of the contributing creek. See Section Appendix C, Section 2-1 for more details of the DEM formulation and resolution. It is recommended that for further analysis, a more detailed survey be conducted to assess the storage capacity of the Elk Creek Channel.

Street Flow

Street flow was utilized in this analysis to model a proportion of the major drainage system that is solely supported by surface road flow. It is important to note that not all projected street flow is included in this analysis, only in the cases that street flow was the only drainage route to interconnect junctions to outfalls, for instance, a bubbler. Bubbler drainage systems are designed as typically two (2) drainage inlets connected by a pipe and not connected to any outfall source. The only surface flow route for the water to flow if a drainage inlet is to overflow in a bubbler is the over the adjacent land, which in this drainage system were roadways and gutters. Street flow was modeled into the system under the Street Editor tool in PCSWMM. The Street Editor tool takes input from the user to define the roadway considering the full or half street flow, the street width, the cross slope, the curb height and the Manning’s roughness value of the roadway. Each street flow in the H&H model was defined based on-site investigation, topography, and standard values for roadways defined in the Urban Drainage Design HEC-22 reference manual (Federal Highway Administration, 2024).

Storages

Storages were included in the base-conditions model to model natural or intentional drainage basins that would hold a significant amount of stormwater in a storm event. Storage basin volume was approximated using the site topography

DEM layer. Storage volumes are estimated using the embedded “Storage Creator” tool in PC, that approximates the depth to surface area ratio based on the applied DEM layer. The Storage Creator then assigns a “Storage Curve” for each storage unit. The “Storage Curve” is a graphical and tabular relationship between depth to surface area of the storage. See **Attachment 6** below for the storages and respective curves within the base conditions model.

D-6 Two-Dimensional Hydrologic and Hydraulic Analysis

The one-dimensional base conditions H&H analysis was able to determine the volume, duration and point location of flooding within the drainage network, however, the surface flow impacts of the point flooding cannot be determined without a two-dimensional H&H analysis. The two-dimensional H&H analysis was able to locate the extent, duration and depth of flooding throughout the project boundary. Three versions of the base-conditions two-dimensional model were generated, the 2-year, 24-hour storm and tidal conditions, 10-year, 24-hour storm and tidal conditions, and the 50-year, 24-hour storm and tidal conditions. This section details the steps of the two-dimensional H&H approach.

D-6-1 Bounding

The creation of the bounding layer is the first step in generating the 2-dimensional model. The bounding layer defines the extent of the two-dimensional model, where the mesh layer will be generated. The bounding layer is illustrated below in Figure 9.25. The bounding layer is a hexagonal style with a 30-ft resolution, which allows the mesh network to have hexagonal formation with triangular connections with a maximum water depth measured of 30-feet. See Section D-6-2 for further details of the mesh formation.

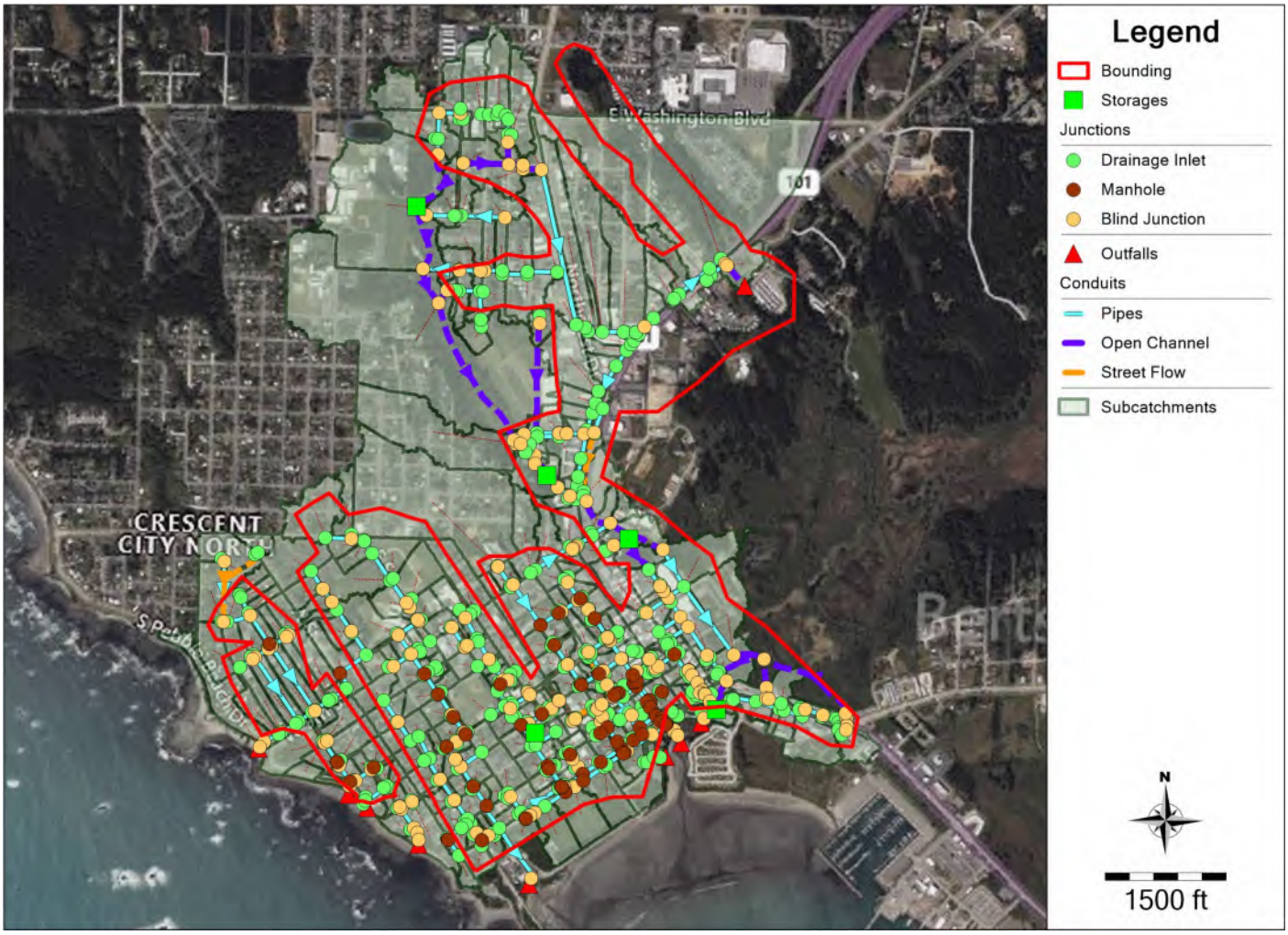


Figure 9.25 Plan view of drainage network with bounding layer boundaries.

D-6-2 2D Mesh Layer

Within the bounding layer, a two-dimensional mesh layer was generated to connect the systems drainage inlets, manholes, and storages to the mesh. PCSWMM utilizes the mesh layer to conduct a Triangular Gaussian quadrature to simulate the water flow through the drainage network with respect to the site's topography through the DEM layer. See Figure 9.26 for an example of how the mesh layer connects to the existing drainage network through a drainage inlet. The connecting storm drain infrastructure node is then connected to both the existing drainage network and the mesh layer – water simulation. This connection allows the model to better approximate the flow inflow from the upstream connected pipe(s) and the topographically defined surface flow routed into the system.

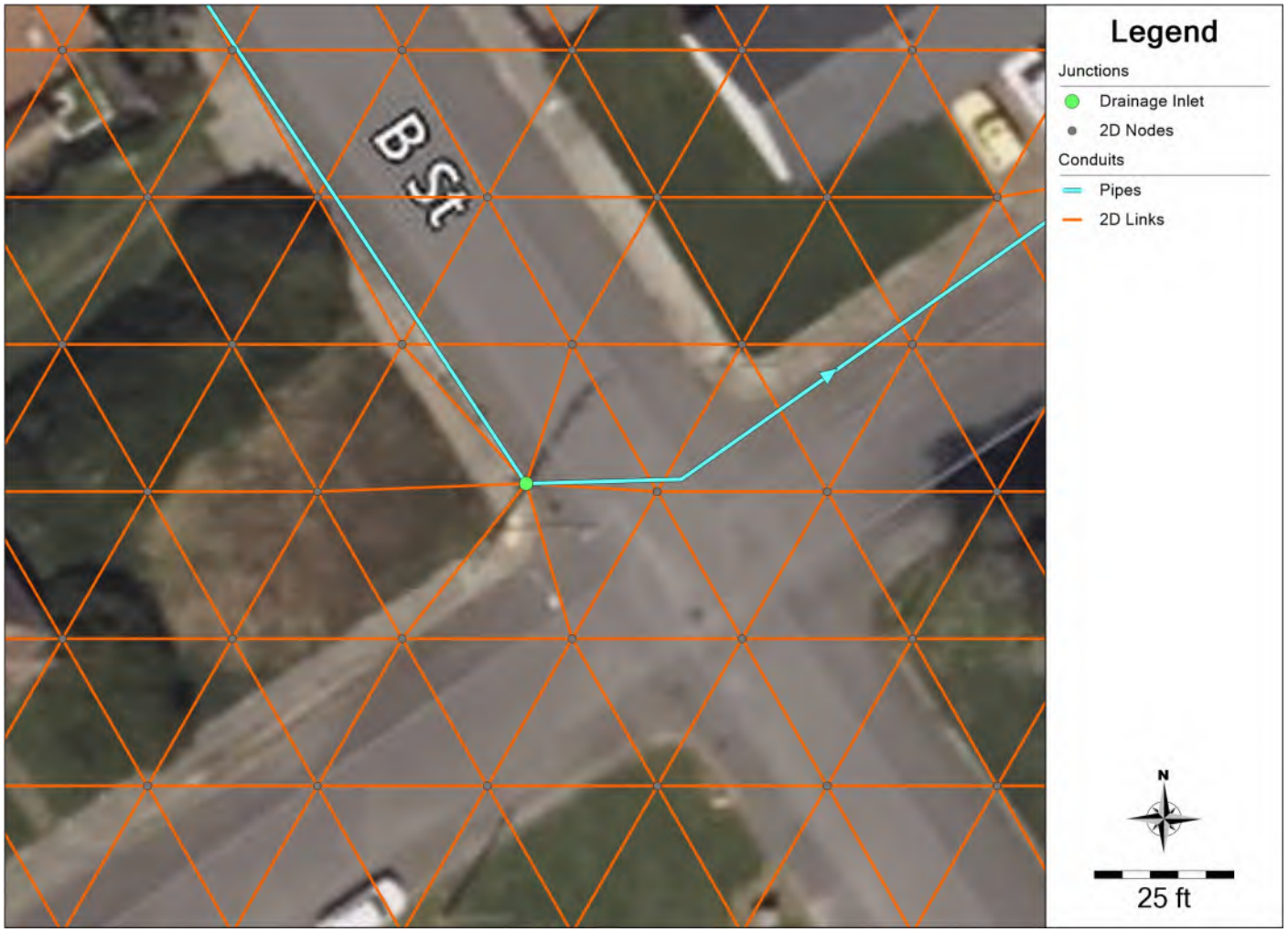


Figure 9.26 Mesh layer connection with sample drainage inlet.

D-6-3 Downstream Boundary Condition

The downstream boundary conditions are defined by areas in the models where water is anticipated to leave the system outside of the pre-defined outfalls, described previously in Section D-3. Modelling the downstream boundary condition is useful in estimating how the water exits the system across the existing terrain. When water exits the modelled system, there is a potential for backwater effects to not be properly captured within the model. Including the downstream boundary condition better represents potential backwater into the system and how backwater might influence upstream flow.

Appendix E

Preliminary Assessment of Anticipated Environmental Review and Permitting Requirements

Drainage Group	CIP ID	Description / Proposed Improvements	Within Caltrans ROW?	Receiving Water (existing outfall)	Within Coastal Zone? (per City LCP)	Intersects Natural / Undisturbed Area?	Mapped Floodplain Status (FIRM 060039C eff. 08/02/2017)	Coastal Jurisdiction	Existing Environment/Setting	Environmental Permits / Approvals	Permitting Narrative	Class V Environmental Permitting Cost	Tier	Key Assumptions / Notes
1	DG1.1	Upsize ~80 LF to 3-ft HDPE; upsize ~700 LF to 2-ft HDPE on Hwy 101; install 4 new DIs. Entirely within Caltrans ROW.	Yes - entirely Caltrans ROW	Elk Creek tributary (existing outfall, no work proposed at outfall)	Within County of Del Norte LCP, but at very edge. Possible that some work would occur within City General Plan jurisdiction.	Entirely within paved area of Hwy 101.	Very close to Zone A but may stay out it appears	County-issued CDP (LCP). In coastal zone segment	Caltrans-managed Hwy 101 ROW; proximity to Elk Creek tributary; riparian vegetation close but assume it can be avoided.	County CDP under LCP for portion in coastal zone; Caltrans, County or City lead CEQA Agency, likely a Categorical Exemption.	Caltrans is construction lead; County CDP, CEQA Categorical Exemption. Outfall protected in place.	$10,000	Tier 1	
2	DG2.1B	Upsize ~1,500 LF (9th-5th St) to 2.5-ft HDPE; upsize ~200 LF (5th & D) to 2-ft HDPE; ~150 LF lateral; 11 new DIs, 4 new MHs. Outfall at B St Pier.	No	Crescent Harbor at B Street Pier (existing outfall, no work proposed at outfall)	Partially - downstream portion between Front St and harbor is in coastal zone; upstream portion (9th St area) likely outside	No	No	Outside coastal zone (no CDP)	Developed urban ROW	Minimal due to urban ROW	Outside coastal zone; existing outfall protected in place. Minimum environmental permitting expected.	$5,000	Tier 1	Project entirely within urban ROW, with minimal environmental impact.
2	DG2.2	Upsize ~200 LF to 1.5-ft HDPE; upsize ~600 LF to 3-ft HDPE; ~200 LF lateral; 9 new DIs, 3 new MHs.	No	Crescent Harbor (via Group 2 system)	Yes, partially	No	No	Western edge of CIP falls within likely city issued LCP	Developed urban ROW	CEQA documentation (likely categorical exemption); City CDP only if portion within coastal zone	ROW pipe upsizing in developed area; if outside coastal zone, environmental scope limited to CEQA documentation; minimal environmental permitting effort.	$25,000	Tier 1-2	If any portion is within coastal zone, escalates to Tier 2 (~$25K).
2	DG2.2B	Upsize ~750 LF to 2-ft HDPE along B St (6th-2nd); ~100 LF lateral; 6 new DIs, 3 new MHs. Routes under private property.	No	Crescent Harbor (via Group 2 system)	No	No	No	No, outside coastal zone	Developed urban ROW	CEQA documentation (CatEx)	Routes under private property; minimal environmental scope; CEQA cat. exemption likely	$5,000	Tier 1	Easement acquisition is out of environmental scope.
3	DG3.1A	Upsize ~350 LF to 2.5-ft HDPE; upsize ~2,350 LF to 2-ft HDPE; ~25 LF lateral; 8 new DIs. Tidally influenced area east of Hwy 101.	No (adjacent)	Elk Creek (existing outfall, no work proposed at outfall)	No - east of Highway 101, outside the LCP-defined coastal zone	Yes, semi-natural/undisturbed area within and adjacent to freshwater marsh area east of Crescent City	Yes, Zone A	Outside coastal zone (no CDP needed)	Crosses portion of freshwater marsh east of town.	CEQA documentation; possible RWQCB 401/CDFW 1602 if alignment crosses jurisdictional drainage; FEMA Floodplain Development Permit	Intersects freshwater marsh area; outside coastal zone; verify wetland/jurisdictional waters along alignment; FEMA floodplain permit likely; no CDP required.	$60,000	Tier 3	Wetlands + Elk Creek proximity drives floodplain permit and possible 1602/401. Verify wetland delineation needs - jurisdictional waters likely present.
3	DG3.1B	Upsize ~1,600 LF to 2-ft HDPE; ~150 LF lateral; 11 new DIs.	No	Elk Creek (via Group 3 system)	No - east of Highway 101, outside coastal zone	Yes, crosses freshwater forested/shrub wetland	No	Outside coastal zone (no CDP needed)	Mostly developed urban ROW, eastern portion crosses a wetland and natural area	CEQA documentation; possible RWQCB 401/CDFW 1602 if alignment crosses jurisdictional drainage; FEMA Floodplain Development Permit	ROW pipe upsizing in developed area outside coastal zone; eastern portion intersects with wetlands and potential stream channel (other waters).	$45,000	Tier 2-3	Wetlands proximity drives 1602/404/401 permits. Verify wetland delineation needs - jurisdictional waters likely present.
3	DG3.2A	Upsize ~550 LF to 2.5-ft HDPE; upsize ~350 LF to 2-ft HDPE; ~200 LF lateral; 11 new DIs, 2 new MHs.	No	Elk Creek (via Group 3 system)	No - east of Highway 101	No	No	Outside coastal zone (no CDP needed)	Developed urban ROW	CEQA documentation (likely categorical exemption)	Standard ROW pipe upsizing outside coastal zone; minimal environmental scope; CEQA cat. exemption likely.	$3,000	Tier 1	Pure ROW work outside coastal zone.
3	DG3.2B	Add ~950 LF 3-ft HDPE; add ~300 LF 2.5-ft HDPE; add ~450 LF 1-ft HDPE; upsize ~650 LF to 3-ft; upsize ~400 LF to 2.5-ft; ~400 LF lateral; 21 new DIs, 6 new MHs.	No	Elk Creek (via Group 3 system)	No - east of Highway 101	Potentially the far western portion, but seems unlikely	No	Outside coastal zone (no CDP needed)	Developed urban ROW and riparian; outside LCP coastal zone	CEQA documentation; possible CDFW 1602 / CWA 404/401, CEQA Initial Study / Negative Declaration. if any tie-in to creek/drainage; difficult to tell	Largest CIP in Group 3; flow redirection in developed ROW outside coastal zone; CEQA cat. exemption likely unless tie-in to jurisdictional drainage feature.	$50,000	Tier 3	Assume doesn't impact creek at west end. Scale doesn't drive environmental cost as much as resource impact does. If any tie-in to jurisdictional drainage, escalates to Tier 2-3.
3	DG3.2C	Upsize ~800 LF to 2-ft HDPE on E. Washington Blvd (Amador-Breen); ~50 LF lateral; 2 new DIs. Directs flow to greenway/creek.	No	Greenway/creek (per project description)	Yes, very small portion overlaps along western edge of CIP on Washington Blvd	Yes, southern portion at end of Amador Street intersects with undisturbed/natural area	No	City-issued CDP (LCP) likely. In coastal zone segment	Discharge to greenway/creek (described in project); jurisdictional drainage potential; possible riparian vegetation	RWQCB 401 WQC; CDFW 1602 LSAA; possibly USACE 404 NWP; CEQA documentation (potential IS/MND given resource impact)	Discharge to greenway/creek triggers waters-of-State permits; CDFW 1602 likely for outfall connection;coastal zone CDP; biological survey needed.	$80,000	Tier 3-4	Highest-resource-risk CIP among Group 3 due to direct greenway/creek discharge. Verify whether greenway is jurisdictional waters of US. CDFW 1602 essentially certain.
3	DG3.3A	Upsize ~350 LF to 1.5-ft HDPE; upsize ~50 LF to 1-ft HDPE; 3 new DIs.	No (adjacent to Hwy 101 and Elk Valley Rd)	Elk Creek (via Group 3 system)	Yes, a portion	Yes, northern extent	Yes, northern extent	Small portion in City issued LCP	Developed ROW at south end of city near Hwy 101 and Elk Valley Rd; northern portion extends into potential jurisdictional freshwater forested/scrub wetland	CEQA documentation; potential RWQCB 401 WQC; CDFW 1602 LSAA; possibly USACE 404 NWP	Pipe upsizing addressing south-end flooding; routine environmental scope; CEQA cat. exemption likely; no CDP if outside coastal zone.	$60,000	Tier 3-4	Potential FEMA, LCP, RWQCB, USACE. Depends upon extent of construction at northern extent of CIP.
3	DG3.3B	Upsize ~1,300 LF to 2.5-ft HDPE; 7 new DIs. Intersects Caltrans ROW.	Yes - intersects Caltrans ROW	Elk Creek (via Group 3 system)	Yes	No	Yes	City-issued CDP	Caltrans ROW at Hwy 101 N/S split area	City CDP under LCP ; CEQA documentation (Caltrans typically lead)	Hwy 101 N/S split work; environmental scope contingent on coastal zone status; Caltrans may be CEQA lead; City CDP for coastal zone segment; FEMA floodplain.	$50,000	Tier 2-3	Caltrans typically lead for NEPA/CEQA on its ROW.
4	DG4.1A	Upsize ~900 LF to 3-ft HDPE; upsize ~400 LF to 2.5-ft HDPE; upsize ~350 LF to 1.5-ft HDPE; ~250 LF lateral; 11 new DIs, 10 new MHs. Resolves flooding at 5th & J and 4th & J.	No	Elk Creek (via Group 4 outfall)	No	No - fully developed downtown grid	No	Outside coastal zone	Fully developed downtown street grid; no natural features anticipated	CEQA documentation (likely categorical exemption)	ROW pipe upsizing in fully developed downtown grid; minimal environmental scope; bundle with DG4.1B for permitting efficiency.	$5,000	Tier 1	Bundle permitting with DG4.1B. Fully developed grid - lowest resource risk.
4	DG4.1B	Upsize ~1,200 LF to 2.5-ft HDPE; upsize ~300 LF to 2-ft HDPE; upsize ~100 LF to 1.5-ft HDPE; ~250 LF lateral; 11 new DIs, 5 new MHs. Hydraulically dependent on DG4.1A.	No	Elk Creek (via Group 4 outfall)	No	No - fully developed grid	No	Outside coastal zone	Fully developed downtown street grid; no natural features anticipated	CEQA documentation (bundled with DG4.1A)	ROW pipe upsizing in downtown grid upstream of DG4.1A; bundle with DG4.1A under single environmental submittal; minimal scope.	$2,000	Tier 1	Bundle with DG4.1A.
4	DG4.2	Upsize ~600 LF to 4-ft HDPE; upsize ~350 LF to 2-ft HDPE; ~150 LF lateral; 3 new DIs, 4 new MHs. Hydraulically dependent on DG10.1.	No	Elk Creek (via Outfall 10 / DG10.1 system)	Yes, small portion at southern end overlaps coastal zone	Urban ROW expected	No	City-issued CDP for southern portion	Developed urban ROW; hydraulically tied to DG10.1	CEQA documentation (likely categorical exemption); City CDP if portion within coastal zone	ROW pipe upsizing dependent on DG10.1; minimal environmental scope; verify coastal zone status.	$10,000	Tier 1	High tier 1 due to coastal zone.

Drainage Group	CIP ID	Description / Proposed Improvements	Within Caltrans ROW?	Receiving Water (existing outfall)	Within Coastal Zone? (per City LCP)	Intersects Natural / Undisturbed Area?	Mapped Floodplain Status (FIRM 060039C eff. 08/02/2017)	Coastal Jurisdiction	Existing Environment/Setting	Environmental Permits / Approvals	Permitting Narrative	Class V Environmental Permitting Cost	Tier	Key Assumptions / Notes
4	DG4.3	Upsize ~100 LF to 3-ft HDPE; upsize ~700 LF to 2-ft HDPE; upsize ~600 LF to 1-ft HDPE; ~350 LF lateral; 9 new DIs, 4 new MHs. Hydraulically dependent on DG10.1.	No	Elk Creek (via Outfall 10 / DG10.1 system)	No	No	No	Outside coastal zone	Developed urban ROW; hydraulically tied to DG10.1 system	CEQA documentation minimal	ROW pipe upsizing dependent on DG10.1; minimal environmental scope; bundle with DG4.2.	$3,000	Tier 1	Bundle with DG4.2 if alignment permits.
5	DG5.1	Cross-town interceptor: add ~2,200 LF 4.5-ft HDPE down 9th St (D St to Outfall 5); add ~600 LF 4-ft HDPE; add/upsize ~1,300 LF to 3-ft; upsize ~200 LF to 2.5-ft; ~100 LF lateral; 8 new DIs, 5 new MHs. Outfall 5 to Pacific Ocean south of Preston Island.	No	Pacific Ocean at Outfall 5, south of Preston Island (existing outfall, no work proposed at outfall)	Yes - City LCP	Assumed all work is within paved (road) area.	No	City-issued CDP (LCP).	9th Street alignment terminates at Pacific Ocean Outfall 5; downstream portion within coastal zone strip; possible coastal bluff/ESHA at existing outfall vicinity	City CDP under LCP; CEQA Categorical Exemption	Largest CIP in master plan; appealable City CDP for downstream coastal portion; close proximity of natural habitat (ESHA) may require bio surveys and consideration in permitting.	$100,000	Tier 3	
5	DG5.2	Upsize ~900 LF to 3-ft HDPE; upsize ~1,000 LF to 2.5-ft HDPE; upsize ~600 LF to 2-ft HDPE; ~550 LF lateral; 14 new DIs, 3 new MHs. Pacific Ave; dependent on DG5.1.	No	Pacific Ocean at Outfall 5 (via DG5.1)	No	No	No	Outside coastal zone	Developed urban ROW on Pacific Avenue; hydraulically tied to DG5.1	Bundle under DG5.1 CDP and CEQA; minimal incremental environmental scope	ROW pipe upsizing on Pacific Ave dependent on DG5.1; bundle CDP and CEQA with DG5.1; marginal incremental scope.	$5,000	Tier 1	Bundle permitting with other Group 5 CIPs.
5	DG5.3	Upsize ~1,000 LF to 2.5-ft HDPE; upsize ~450 LF to 2-ft HDPE; ~50 LF lateral; 6 new DIs, 1 new MH. Gary St neighborhood; dependent on DG5.1.	No	Pacific Ocean at Outfall 5 (via DG5.1)	No	No	No	Outside coastal zone	Developed residential ROW; hydraulically tied to DG5.1	Bundle under DG5.1 CDP and CEQA if applicable; otherwise CEQA cat. exemption	ROW pipe upsizing in Gart St neighborhood dependent on DG5.1; bundle environmental permitting with Group 5; minimal scope.	$5,000	Tier 1	Bundle permitting with other Group 5 CIPs.
5	DG5.4	Upsize ~1,400 LF to 3-ft HDPE; upsize ~850 LF to 2.5-ft HDPE; upsize ~700 LF to 2-ft HDPE; ~350 LF lateral; 15 new DIs, 5 new MHs.	No	Pacific Ocean at Outfall 5 (via DG5.1) - verify	No	No	No	Outside coastal zone	Developed urban ROW; substantial scale (~3,300 LF)	Bundle under DG5.1 CDP and CEQA if applicable; otherwise CEQA documentation	Substantial ROW pipe upsizing; bundle environmental permitting with Group 5; minimal incremental scope.	$8,000	Tier 1-2	Bundle with other Group 5 CIPs.
5	DG5.5	Upsize ~450 LF to 1.5-ft HDPE; ~100 LF lateral; 3 new DIs, 1 new MH. Dependent on DG5.1.	No	Pacific Ocean at Outfall 5 (via DG5.1)	No	No	No	Outside coastal zone	Small-scale developed residential ROW	Bundle under DG5.1 CDP and CEQA if applicable	Small-scale ROW pipe upsizing; lowest environmental scope in Group 5; bundle with other Group 5 CIPs.	$2,000	Tier 1	Bundle permitting with other Group 5 CIPs.
6	DG6.1	Upsize ~50 LF to 2-ft HDPE; upsize ~450 LF to 1.5-ft HDPE; ~150 LF lateral; 8 new DIs, 3 new MHs. Outfall to Pacific Ocean south of Brother Jonathan Cemetery.	No	Pacific Ocean south of Brother Jonathan Cemetery (existing outfall, no work proposed at outfall)	Yes - within one block of Pacific along Pebble Beach Drive area	No	No	City-issued CDP (LCP); potential appealable to CCC for western most portion near to the beach	Mostly urban ROW	City CDP under LCP (likely appealable);	Coastal zone CDP with appeal jurisdiction likely. Minimal other requirements expected.	$10,000	Tier 2	Brother Jonathan Cemetery is a documented historic resource - cultural review and Tolowa Dee-ni' Nation consultation may be needed.
7	DG7.1	Replace ~400 LF of pipe with 1-ft HDPE; 2 new DIs, 1 new MH. Repairs failed pipe sections leading to Outfall 7 (Pacific Ocean). Outfall protected in place.	No	Pacific Ocean at Outfall 7 (existing outfall not modified)	Yes - within one block of Pacific along A Street/Lighthouse Way area	Yes, coastal bluff and potential ESHA	Yes, at western end outfall area	City-issued CDP (LCP); likely appealable to CCC (within 300 ft of beach)	Within coastal zone strip near Pacific Ocean; possible coastal bluff/ESHA; small project footprint	City CDP under LCP (likely appealable); biological survey for coastal portion; CEQA documentation may be Initial Study / Negative Declaration. May be within US Army Corps jurisdiction which would require CWA 404 and 401 approvals (USACE and Water Board).	Pipe repair leading to existing Outfall 7; appealable City CDP under LCP given coastal zone location; bluff biological survey; outfall protected in place.	$60,000	Tier 3	Sediment/debris cleanout at outfall (separate from pipe repair) may need additional authorization if performed seaward of MHTL.
8	DG8.1	Add ~300 LF 1-ft HDPE (W 5th St & Wendell St to Outfall 8); upsize ~100 LF to 2-ft HDPE; ~150 LF lateral; 7 new DIs, 2 new MHs. New connection to existing Outfall 8.	No	Pacific Ocean at Outfall 8 (existing outfall, no modification proposed)	Yes - within one block of Pacific along Wendell Street	Potentially the far western portion, but seems unlikley	Potentially the far western portion, but seems unlikley	City-issued CDP (LCP); likely appealable to CCC (within 300 ft of beach)	Within coastal zone along Wendell Street; possible coastal bluff/ESHA at outfall vicinity	City CDP under LCP (likely appealable); biological survey for coastal portion; CEQA documentation may be Initial Study / Negative Declaration. May be within US Army Corps jurisdiction which would require CWA 404 and 401 approvals (USACE and Water Board).	New 300 LF connection to existing Outfall 8 within coastal zone strip; appealable City CDP; ESHA verification needed; outfall protected in place.	$60,000	Tier 3	New pipe connecting to existing outfall (not new outfall). If connection point seaward of MHTL, escalates to Tier 4. Verify exact terminus.
9	DG9.1	Upsize ~600 LF to 2-ft HDPE; ~150 LF lateral; 5 new DIs, 2 new MHs. Discharges to Pacific Ocean near south end of Wendell St.	No	Pacific Ocean near south end of Wendell Street (existing outfall, no work proposed at outfall)	Yes - within one block of Pacific along Wendell Street and A Street	Yes at western terminus intersects with native vegetation (potential ESHA)	No; near outfall Zone VE	City-issued CDP (LCP); likely appealable to CCC	Within coastal zone along Wendell/A Street; possible coastal bluff/ESHA	City CDP under LCP (likely appealable); biological survey for coastal portion; CEQA documentation	ROW pipe upsizing within coastal zone strip; appealable City CDP under LCP; bluff biological survey; outfall protected in place.	$40,000	Tier 2-3	Standard coastal zone CDP profile.
10	DG10.1	Add ~300 LF 4-ft HDPE (Front St to Outfall 10); upsize ~250 LF to 4-ft HDPE; ~50 LF lateral; 5 new DIs, 1 new MH. Outfall to Elk Creek; existing outfall protected in place.	No	Elk Creek at Outfall 10 in Beachfront Park area (existing outfall protected in place per design)	Yes - between Front Street and Crescent City Harbor, within coastal zone	Yes - Beachfront Park / Elk Creek mouth corridor; possible riparian, ESHA, tidewater goby habitat	Yes, Zone AE at eastern terminus	City-issued CDP (LCP); likely appealable to CCC	Beachfront Park / Elk Creek mouth corridor; high-resource area; ESA - possible tidewater goby habitat; riparian/ESHA verification needed; cultural resources potential	City CDP under LCP (likely appealable); biological assessment (tidewater goby focus, possible ESA Section 7); possible CDFW 1602 if any work in Elk Creek streambed; cultural Phase I; FEMA Floodplain Development Permit; CEQA (IS/MND likely); possibly CWA 404/401;	Outfall protected in place per design - favorable; new pipe in Beachfront Park/Elk Creek mouth corridor requires appealable CDP, biological assessment, possible 1602; high-resource area.	$80,000	Tier 3-4	Protect in place' favorable for permitting. Beachfront Park / Elk Creek mouth is high-resource (tidewater goby, salmonid, riparian, possibly cultural). DG4.2 and DG4.3 downstream-dependent. Permitting cost dependent upon design ability to avoid habitat.
											TOTAL :	**$783,000**		

Drainage Group	CIP ID	Description / Proposed Improvements	Within Caltrans ROW?	Receiving Water (existing outfall)	Within Coastal Zone? (per City LCP)	Intersects Natural / Undisturbed Area?	Mapped Floodplain Status (FIRM 060039C eff. 08/02/2017)	Coastal Jurisdiction	Existing Environment/Setting	Environmental Permits / Approvals	Permitting Narrative	Class V Environmental Permitting Cost	Tier	Key Assumptions / Notes

ENVIRONMENTAL PERMITTING COST BY DRAINAGE GROUP (BUNDLED)

Assumes the City permits each Drainage Group as a single application (CDP, CEQA, biological surveys bundled). Lead CIP carries full regulatory effort; ride-along CIPs add only marginal description scope.

Drainage Group	CIPs Included	Lead CIP / Driver	Bundled Cost (ROM, $)	Notes
DG 1	DG1.1	DG1.1 (Caltrans-led)	$10,000	Caltrans-led single project; environmental scope contingent on coastal zone status.
DG 2	DG2.1B, DG2.2, DG2.2B	DG2.1B (CDP for harbor-adjacent segment)	$35,000	Lead is DG2.1B with possible coastal zone CDP; DG2.2 and DG2.2B ride along under bundled CEQA. Modest savings vs. per-CIP sum.
DG 3	DG3.1A, DG3.1B, DG3.2A, DG3.2B, DG3.2C, DG3.3A, DG3.3B	DG3.2C (greenway/creek 1602/401 driver) + DG3.3B (Caltrans	$348,000	Coastal zone. DG3.2C carries 1602/401 burden. DG3.1A floodplain drives FEMA permit. Other CIPs ride along under bundled
DG 4	DG4.1A, DG4.1B, DG4.2, DG4.3	DG4.1A (downtown grid CEQA)	$20,000	All Group 4 CIPs are in fully developed downtown grid, likely outside coastal zone. Single bundled CEQA categorical exemption
DG 5	DG5.1, DG5.2, DG5.3, DG5.4, DG5.5	DG5.1 (cross-town interceptor with appealable coastal zone CDP)	$120,000	DG5.1 carries full appealable CDP, ESHA biological survey, cultural Phase I, and FEMA permit. DG5.2-5.5 ride along under same CDP and
DG 6	DG6.1	DG6.1 (cemetery + bluff)	$10,000	Single project with appealable CDP, ESHA biological survey, cultural Phase I (cemetery), and tribal consultation potential.
DG 7	DG7.1	DG7.1 (coastal pipe repair)	$60,000	Single project with appealable CDP and bluff biological survey. Outfall protected in place.
DG 8	DG8.1	DG8.1 (new connection to existing outfall)	$60,000	Single project with appealable CDP and bluff biological survey. New connection (not new outfall) keeps in Tier 3.
DG 9	DG9.1	DG9.1 (coastal pipe upsize)	$40,000	Single project with appealable CDP and bluff biological survey.
DG 10	DG10.1	DG10.1 (Elk Creek mouth corridor)	$80,000	Single project; high-resource area (tidewater goby, salmonid, riparian); appealable CDP, ESA-level biological assessment, possible
		TOTAL (bundled, ROM):	**$783,000**	

Class V Cost Estimate - Methodology & Assumptions

Scope: ENVIRONMENTAL permitting only

AACE Class:	Class V (Concept Screening)
Project Definition:	0% to 2% complete
Expected Accuracy Range:	-50% / +100%
End Use:	Long-range capital planning, master plan budgeting
Estimating Method:	Stochastic / parametric, based on permit-tier assumptions

Scope Definition	
IN scope:	Coastal Development Permit (CDP); USACE 404; RWQCB 401; CDFW 1602; ESA/CESA; Cultural Resources/SHPO/Tribal consultation; CEQA documentation; Biological surveys/ESHA verification; FEMA Floodplain Development Permit
OUT of scope:	SWPPP/Construction General Permit; Caltrans encroachment permits; City encroachment permits; building/grading permits; easement acquisition; construction contracting

Cost Tier Definitions (environmental permitting only)	
Tier 1 - No environmental triggers	**$2K - $10K**
Description	Fully developed ROW outside coastal zone with no surface water/wetland/floodplain impact. Limited to CEQA categorical exemption and confirmation memo. No CDP, no resource agency permits.
Tier 2 - Single environmental trigger	**$15K - $40K**
Description	City-issued CDP (not appealable) under LCP, OR a single resource agency permit (FEMA floodplain, CDFW 1602, etc.). Routine biological/cultural memo. CEQA cat. exemption or short-form.
Tier 3 - Appealable CDP or multiple resource permits	**$50K - $120K**
Description	Appealable CDP (within 300 ft of beach or between sea and first public road); biological assessment for ESHA; possible 1602 + 401; cultural Phase I; CEQA IS/MND.
Tier 4 - Multi-Agency / Resource Impact	**$120K - $300K**
Description	CCC retained jurisdiction OR USACE 404 + 401 + 1602 + ESA Section 7 nexus; full CEQA MND. NOT triggered by current CIP scopes as described.
Tier 5 - Major Impact	**$300K+**
Description	Individual 404 permit; CCC hearing; ESA formal consultation; full EIR. NOT triggered by current CIP scopes as described.

Excluded from these estimates:

- Construction permits (SWPPP, encroachment, building, grading)
- Mitigation construction costs (in-lieu fees, restoration, monitoring beyond 1 yr)
- Agency filing fees (varies; add separately)
- Easement acquisition costs
- Construction monitoring / biological monitor field time
- Post-construction performance monitoring

Key Citywide Assumptions	
LCP status:	City of Crescent City has a certified LCP (originally 1984, amended 2010-2011 via CRC-MAJ-1-03). City issues CDPs except in CCC retained jurisdiction.
Coastal zone extent:	Approximately 1/10 of city. Most CIPs are OUTSIDE coastal zone.
CCC retained jurisdiction:	Tidelands, submerged lands, public trust lands, seaward of MHTL. NO CURRENT CIP triggers this per descriptions provided.
CCC appeal jurisdiction:	Between sea and first public road, within 300 ft of beach. Several CIPs trigger this (DG5.1, DG6.1, DG7.1, DG8.1, DG9.1, DG10.1).
Outfall scope assumption:	All existing outfalls protected in place per CIP descriptions. No new outfalls or outfall modifications proposed. THIS IS THE SINGLE BIGGEST COST DRIVER - if outfall work added to scope, costs escalate substantially.
Receiving waters:	Pacific Ocean (Outfalls 5, 6, 7, 8, 9), Crescent Harbor (Outfall 2), Elk Creek and tributaries (Outfalls 1, 3, 4, 10)
Listed species potentially in vicinity:	Tidewater goby (Elk Creek mouth), coho salmon (Elk Creek), western snowy plover (beaches), marbled murrelet (verify USFWS list)
Permitting bundling assumption:	Per PM, CIPs are intended to be permitted by Drainage Group rather than individually. Bundled section at bottom of CIP Permitting Matrix reflects this assumption.
FIRM reference:	FEMA FIRM Community ID 060039C, current effective date 08/02/2017

Environmental Permit / Approval Quick Reference

Scope: ENVIRONMENTAL permits only. Construction permits (SWPPP/CGP, encroachment, building, grading) are NOT in environmental scope and not included.

Permit / Approval	Trigger	Lead Agency	Typical Cost & Timeline (ROM, Class V)
Coastal Development Permit (CDP) - City-issued, not appealable	Development within Crescent City coastal zone but not in appealable area	City of Crescent City	$5K-$15K consultant + City fees; 3-6 mo
Coastal Development Permit (CDP) - City-issued, appealable to CCC	Project between sea and first public road, OR within 300 ft of beach	City issues; CCC has appeal jurisdiction	$10K-$30K consultant; 4-9 mo (longer if appealed)
Coastal Development Permit (CDP) - CCC retained jurisdiction	Tidelands, submerged lands, public trust lands, seaward of MHTL	California Coastal Commission	$20K-$60K+ consultant + CCC filing fees; 9-18 mo (NOT triggered by current CIPs as described)
Categorical Exemption (CEQA)	Routine in-kind infrastructure replacement with no resource impact	City of Crescent City	$2K-$5K consultant; 1-2 mo
Initial Study / Mitigated Negative Declaration (CEQA)	Project with potential significant impacts that can be mitigated	City of Crescent City	$20K-$60K consultant; 4-9 mo
USACE Section 404 Permit (NWP or Individual)	Discharge of dredged/fill material to waters of the U.S. (post-Sackett)	U.S. Army Corps of Engineers	NWP: $8K-$20K, 4-6 mo; IP: $40K-$120K+, 12-24 mo
RWQCB Section 401 Water Quality Certification	Federal permit (404) for discharge to waters of the State	North Coast RWQCB	$5K-$15K consultant + RWQCB fees; concurrent with 404
CDFW Section 1602 Lake & Streambed Alteration Agreement	Work in/under/across bed, bank, or channel of any river, stream, or lake	CA Dept. of Fish and Wildlife	$5K-$20K consultant + CDFW fees; 3-6 mo
FEMA Floodplain Development Permit	Work in mapped SFHA per FIRM 060039C eff. 08/02/2017	City Floodplain Administrator	$3K-$8K basic FPDP; 2-4 mo
Cultural Resources Survey / SHPO / Tribal Consultation	Project near historic resource (e.g., cemetery), federal nexus, or CEQA cultural finding	City / SHPO / Tolowa Dee-ni' Nation	$5K-$25K Phase I; Phase II/III if resources found
Biological Survey / ESHA Verification	Project in coastal zone with potential ESHA (coastal bluff, riparian, wetland)	Consultant; review by City and CCC	$5K-$20K survey; included in CDP package
ESA Section 7 Consultation	Federal nexus + listed species (e.g., tidewater goby, coho, marbled murrelet)	USFWS / NMFS via federal lead	BA prep $15K-$50K; consultation 6-18 mo (not anticipated for current CIPs absent federal nexus)

Attachments

Attachment 1

Crescent City Priority Land Uses

City of Crescent City General Plan Land Use Diagram

May 21, 2001

Crescent City Land Use Designations

Residential
- Single Family (0-2)
- Single Family (2-6)
- Multi-Family (6-15)
- Multi-Family (15-30)
- Mobilehome Park

Commercial
- Business-Professional
- Visitor and Local Commercial
- General Commercial

Industrial
- Light Industrial
- General Industrial

Public
- Public Facilities and Tribal Lands

Harbor
- Harbor Related
- Harbor Dependent
- Harbor Dependent Recreation
- Harbor Dependent Commercial

Conservation and Open Space
- Open Space
- Natural Resources

Overlays
- Urban Reserve Overlay

Countywide Designation
- County Rural Development
- County Resources

- Crescent City City Limit
- Planning Area Boundary
- Urban Boundary
- Coastal Zone Boundary

Public Facilities Index

1 - County Park (Point St. George Access)
2 - County Airport (McNamara Field)
3 - County Landfill (Crescent City Landfill)
4 - Mary Peacock School
5 - Pine Grove School
6 - Community College (College of the Redwoods)
7 - Del Norte High School
8 - Crescent Fire/Emergency Services Center
9 - City Water Storage Tank
10 - Bess Maxwell School
11 - Juvenile Detention Facility
12 - Del Norte County Fairgrounds
13 - County Park (Pebble Beach Access)
14 - Public Utility Center
15 - Joe Hamilton School
16 - Crescent Elk School
17 - County Park (Macken Ballfields)
18 - Convention Center
19 - Crescent City Municipal Wastewater Treatment Plant
20 - Pelican Bay State Prison

1 inch = 2750 feet

N W E S

2000 0 2000 4000 6000 Feet

1 inch = 2750 feet

Prepared by:

Jones & Stokes

Castle Rock

Crescent City Harbor

Battery Point

Whaler Rock

BIA

Pelican Bay State Prison

Lake Earl Drive

500 0 500 1000 1500 2000 Feet

1 inch = 5,000 feet

Southern Planning Area Boundary

500 0 500 1000 1500 2000 Feet

1 inch = 5,000 feet

Attachment 2

NOAA-14 Precipitation Frequency Estimates

NOAA Atlas 14, Volume 6, Version 2
Location name: Crescent City, California, USA*
Latitude: 41.753°, Longitude: -124.2013°
Elevation: m/ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.170** (0.148-0.197)	**0.220** (0.192-0.256)	**0.286** (0.248-0.333)	**0.338** (0.291-0.398)	**0.410** (0.339-0.500)	**0.464** (0.375-0.580)	**0.519** (0.408-0.667)	**0.575** (0.439-0.762)	**0.651** (0.474-0.902)	**0.709** (0.497-1.02)
10-min	**0.244** (0.212-0.283)	**0.316** (0.275-0.367)	**0.409** (0.355-0.477)	**0.485** (0.417-0.570)	**0.587** (0.486-0.717)	**0.665** (0.538-0.831)	**0.744** (0.585-0.955)	**0.825** (0.629-1.09)	**0.933** (0.679-1.29)	**1.02** (0.712-1.46)
15-min	**0.295** (0.257-0.342)	**0.382** (0.332-0.443)	**0.495** (0.429-0.577)	**0.587** (0.504-0.690)	**0.710** (0.588-0.867)	**0.805** (0.650-1.00)	**0.900** (0.708-1.16)	**0.997** (0.761-1.32)	**1.13** (0.822-1.56)	**1.23** (0.861-1.77)
30-min	**0.400** (0.349-0.464)	**0.518** (0.451-0.602)	**0.672** (0.583-0.783)	**0.796** (0.684-0.936)	**0.964** (0.798-1.18)	**1.09** (0.883-1.36)	**1.22** (0.961-1.57)	**1.35** (1.03-1.79)	**1.53** (1.12-2.12)	**1.67** (1.17-2.40)
60-min	**0.564** (0.491-0.655)	**0.731** (0.635-0.849)	**0.947** (0.821-1.10)	**1.12** (0.964-1.32)	**1.36** (1.12-1.66)	**1.54** (1.24-1.92)	**1.72** (1.36-2.21)	**1.91** (1.46-2.53)	**2.16** (1.57-2.99)	**2.35** (1.65-3.39)
2-hr	**0.838** (0.730-0.972)	**1.06** (0.918-1.23)	**1.34** (1.16-1.56)	**1.57** (1.34-1.84)	**1.87** (1.55-2.28)	**2.10** (1.70-2.63)	**2.34** (1.84-3.00)	**2.58** (1.97-3.42)	**2.90** (2.11-4.02)	**3.14** (2.20-4.53)
3-hr	**1.09** (0.948-1.26)	**1.35** (1.18-1.57)	**1.70** (1.47-1.98)	**1.97** (1.69-2.32)	**2.34** (1.94-2.86)	**2.62** (2.12-3.27)	**2.90** (2.28-3.72)	**3.19** (2.43-4.22)	**3.57** (2.60-4.95)	**3.86** (2.70-5.56)
6-hr	**1.73** (1.50-2.00)	**2.12** (1.84-2.46)	**2.62** (2.27-3.05)	**3.01** (2.59-3.54)	**3.54** (2.93-4.32)	**3.94** (3.18-4.92)	**4.33** (3.41-5.56)	**4.73** (3.61-6.27)	**5.26** (3.83-7.29)	**5.66** (3.97-8.15)
12-hr	**2.47** (2.15-2.86)	**3.05** (2.65-3.54)	**3.79** (3.29-4.42)	**4.37** (3.76-5.14)	**5.13** (4.25-6.26)	**5.70** (4.60-7.12)	**6.25** (4.92-8.02)	**6.80** (5.19-9.01)	**7.52** (5.48-10.4)	**8.06** (5.65-11.6)
24-hr	**3.46** (3.09-3.96)	**4.35** (3.88-4.98)	**5.46** (4.86-6.27)	**6.32** (5.58-7.30)	**7.44** (6.38-8.84)	**8.25** (6.95-9.98)	**9.04** (7.46-11.2)	**9.81** (7.91-12.4)	**10.8** (8.40-14.2)	**11.6** (8.71-15.6)
2-day	**4.85** (4.33-5.54)	**6.07** (5.41-6.95)	**7.58** (6.74-8.70)	**8.75** (7.72-10.1)	**10.2** (8.79-12.2)	**11.3** (9.55-13.7)	**12.4** (10.2-15.3)	**13.4** (10.8-17.0)	**14.7** (11.4-19.3)	**15.7** (11.8-21.2)
3-day	**5.70** (5.09-6.52)	**7.12** (6.34-8.15)	**8.86** (7.88-10.2)	**10.2** (9.01-11.8)	**11.9** (10.2-14.2)	**13.2** (11.1-15.9)	**14.3** (11.8-17.7)	**15.5** (12.5-19.6)	**17.0** (13.2-22.3)	**18.1** (13.6-24.4)
4-day	**6.46** (5.77-7.39)	**8.07** (7.19-9.24)	**10.0** (8.93-11.5)	**11.6** (10.2-13.3)	**13.5** (11.6-16.0)	**14.8** (12.5-18.0)	**16.2** (13.3-20.0)	**17.4** (14.0-22.1)	**19.0** (14.8-25.0)	**20.2** (15.2-27.4)
7-day	**8.02** (7.15-9.17)	**10.1** (8.96-11.5)	**12.5** (11.1-14.4)	**14.4** (12.7-16.6)	**16.7** (14.3-19.9)	**18.3** (15.5-22.2)	**19.9** (16.4-24.6)	**21.4** (17.2-27.1)	**23.2** (18.0-30.5)	**24.5** (18.5-33.2)
10-day	**9.43** (8.41-10.8)	**11.8** (10.6-13.6)	**14.7** (13.1-16.9)	**16.9** (14.9-19.5)	**19.6** (16.8-23.3)	**21.4** (18.1-25.9)	**23.2** (19.1-28.6)	**24.8** (20.0-31.4)	**26.9** (20.9-35.3)	**28.3** (21.3-38.3)
20-day	**13.0** (11.6-14.9)	**16.3** (14.5-18.7)	**20.1** (17.9-23.1)	**22.9** (20.2-26.5)	**26.3** (22.6-31.3)	**28.6** (24.1-34.7)	**30.8** (25.4-38.0)	**32.8** (26.4-41.5)	**35.2** (27.3-46.2)	**36.8** (27.8-49.9)
30-day	**16.5** (14.7-18.9)	**20.4** (18.2-23.4)	**24.9** (22.2-28.6)	**28.2** (24.9-32.6)	**32.2** (27.6-38.3)	**34.9** (29.4-42.2)	**37.3** (30.8-46.2)	**39.6** (31.9-50.2)	**42.3** (32.9-55.5)	**44.1** (33.3-59.7)
45-day	**21.5** (19.2-24.6)	**26.2** (23.4-30.0)	**31.6** (28.1-36.3)	**35.5** (31.4-41.0)	**40.2** (34.5-47.7)	**43.3** (36.5-52.4)	**46.1** (38.0-57.0)	**48.6** (39.2-61.6)	**51.7** (40.2-67.9)	**53.7** (40.5-72.7)
60-day	**26.0** (23.2-29.7)	**31.3** (27.9-35.8)	**37.3** (33.2-42.8)	**41.6** (36.8-48.1)	**46.7** (40.1-55.5)	**50.1** (42.2-60.7)	**53.2** (43.9-65.7)	**55.9** (45.1-70.9)	**59.2** (46.0-77.7)	**61.4** (46.3-83.1)

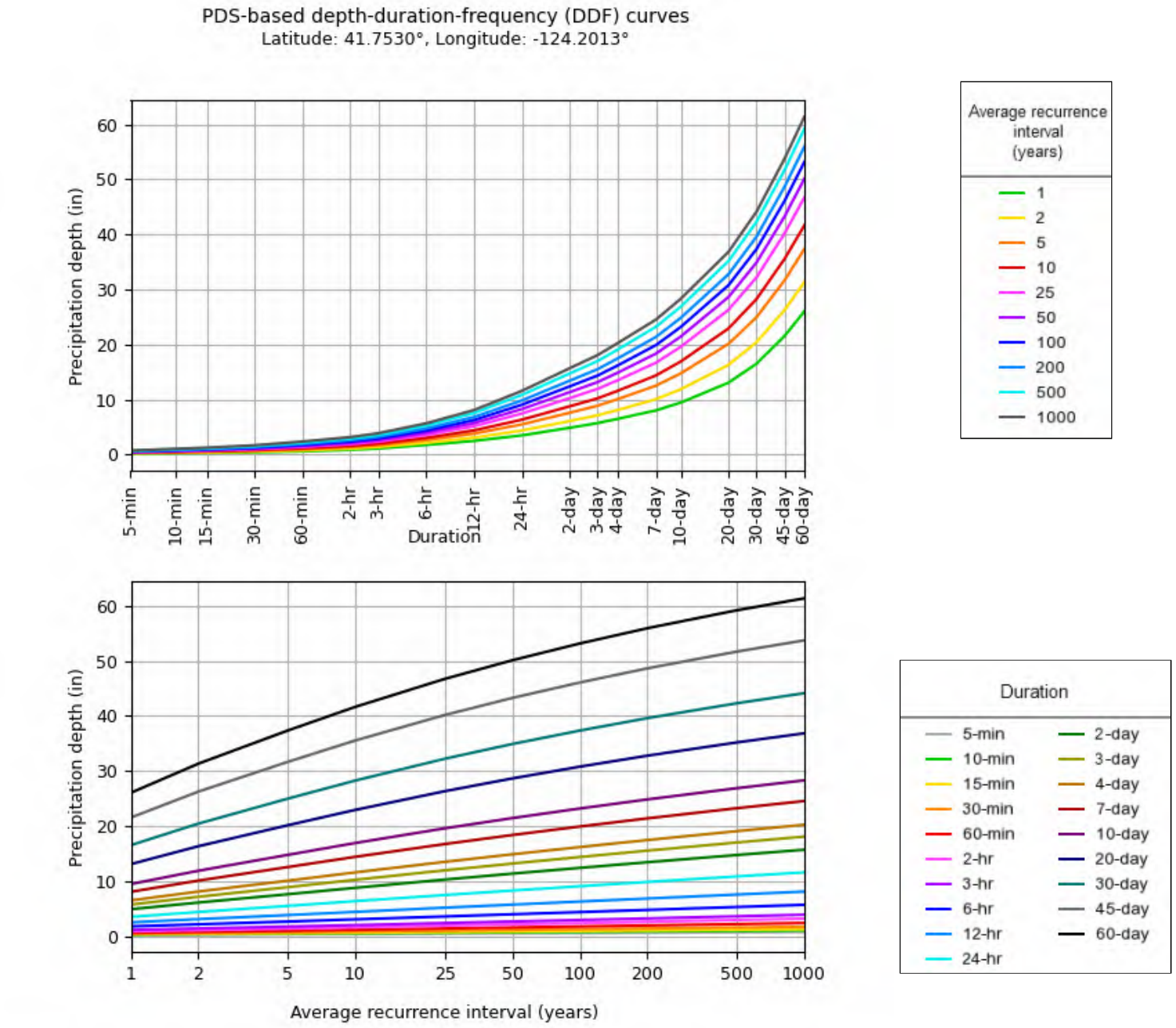
[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

Back to Top

PF graphical



NOAA Atlas 14, Volume 6, Version 2

Created (GMT): Thu Feb 15 23:11:52 2024

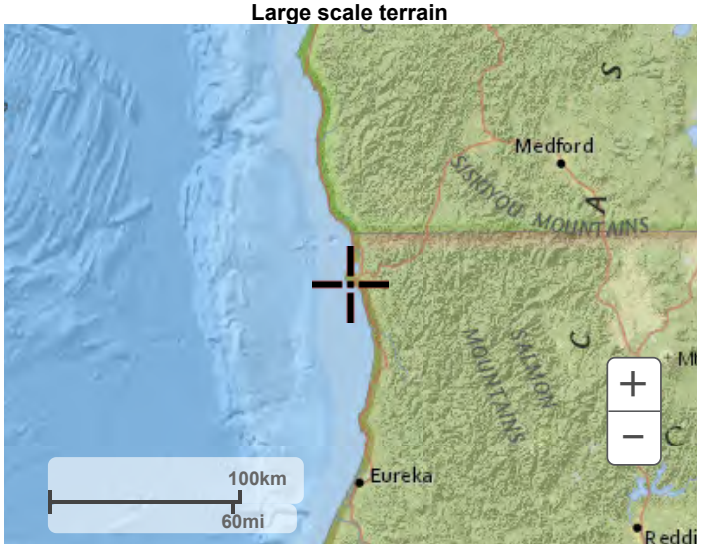
Back to Top

Maps & aerials

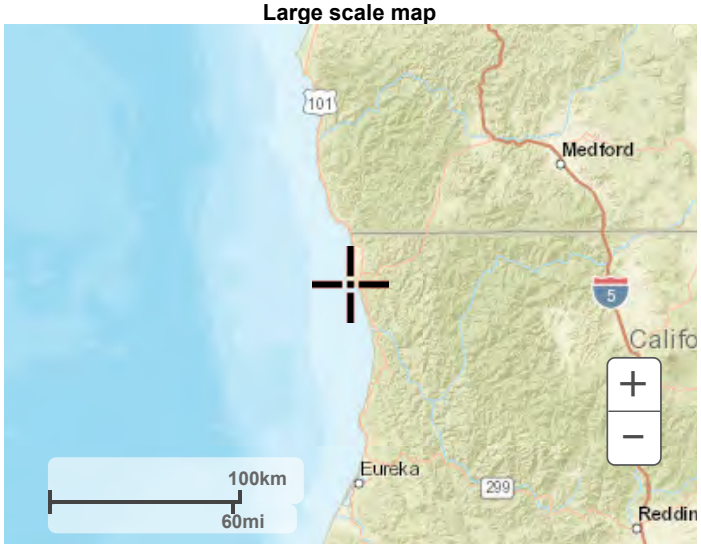
Small scale terrain



Large scale terrain



Large scale map



Large scale aerial



Back to Top

US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

Attachment 3

Subcatchment Parameters

Table 1 Subcatchment Parameters – Base Conditions

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S1	DI182	5.2523	463.338	493.787	3.08	85	95.147
S10	DI056	1.8406	509.906	157.238	3.719	80	93.2
S11	I185	96.9426	412.874	10227.87	8.414	23.262	77.074
S11_1	DI215	94.0113	412.004	9939.545	6.677	33	80.865
S12	DI042	2.9905	471.716	276.154	1.566	63	89.109
S12_2	I192	9.8782	472.676	910.337	1.554	74	91.332
S13	I095	25.3853	503.295	2197.089	8.201	32.404	80.295
S14_1	DI050	0.7994	457.118	76.177	5.333	28	80.72
S14_2	DI064	0.9996	457.121	95.254	5.333	83	94.77
S14_3	DI062	1.3034	457.12	124.204	5.333	19	78.56
S14_4	DI066	1.8724	457.121	178.425	5.333	87	94.88
S14_5	DI063	4.2255	457.121	402.657	5.333	72	91.28
S14_6	DI065	1.0799	457.121	102.906	5.333	54	86.96
S14_8	DI067	0.7473	457.119	71.212	5.333	100	98
S14_9	DI068	6.2202	298.396	908.028	7.274	30	80.426
S15	DI069	5.8785	271.843	941.968	3.324	11	76.19
S16	DI052	3.4716	487.995	309.886	1.36	86	94.64
S16_1	DI209	0.8024	380.225	91.926	3.647	53	86.72
S16_3	DI200	1.2476	380.224	142.93	3.647	56	88.159
S17_1	DI516	1.8152	335.93	235.377	3.124	41	90.174
S17_2	DI214	3.5402	335.929	459.059	3.124	41	90.174
S18	DI071	7.6242	360.823	920.424	3.355	8	72.918
S19	DI072	6.3708	314.379	882.731	3.638	17	72.798
S2	I070	5.7114	438.889	566.86	6.688	19	77.596
S20	DI081	0.8733	370.78	102.597	4.067	48	85.97
S21_1	J42	0.1797	84.1	93.076	4.595	86	93.046
S21_2	DI075	0.6697	313.419	93.077	4.595	86	93.046
S22	DI142	11.047	372.523	1291.752	7.289	28	78.59
S22_1	DI105	2.3718	497.214	207.789	4.439	82	93.05
S22_3	DI107	1.9008	497.213	166.526	4.439	97	97.102
S22_5	DI106	0.8619	497.21	75.51	4.439	76	90.878
S23	DI120	0.1086	341.511	13.852	4.396	0	73.125
S24_1	DI082	1.1043	333.324	144.314	4.963	11	76.85

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S24_2	J11	0.1747	52.732	144.313	4.963	11	76.85
S25_1	DI296	1	268.773	162.07	4.64	68	90.32
S25_2	DI299	0.9556	268.773	154.874	4.64	100	98
S25_4	DI165	51.2051	406.791	5483.145	6.078	39	82.884
S27	DI287	0.1103	378.052	12.709	3.983	100	98
S279_1	I113	1.9385	479.534	176.09	3.772	56	87.53
S279_3	DI500	9.9361	479.533	902.579	3.772	98	97.58
S279_4	DI499	4.9057	479.533	445.626	3.772	81	93.638
S28	DI313	0.3045	353.82	37.488	3.801	77	92.48
S28_1	DI251	9.7993	514.924	828.972	4.259	69	90.56
S29_2	J3	1.3823	104.466	576.388	5.27	59	88.16
S29_3	J4	1.0898	82.361	576.386	5.27	59	88.16
S29_4	DI367	1.02	77.086	576.385	5.27	59	88.16
S3	I092	4.0683	263.487	672.576	11.791	9	70.96
S3_10	DI189	1.3153	514.078	111.451	3.563	95	96.8
S3_11	DI208	2.6233	514.079	222.283	3.563	44	84.379
S3_2	DI237	4.7344	351.959	585.95	6.942	58	88.25
S3_5	DI238	2.4558	351.959	303.941	6.942	46	85.332
S3_6	CreekStorage	48.4091	351.959	5991.324	6.942	22	76.702
S3_7	DI191	1.6999	514.077	144.04	3.563	99	97.79
S3_8	DI193	2.4955	514.079	211.454	3.563	100	98
S3_9	DI194	9.6167	514.078	814.864	3.563	86	96.54
S30_1	DI361	1.9612	453.517	188.372	4.072	68	90.32
S30_2	DI530	0.2751	488.18	24.547	1.347	42	84.08
S30_3	DI051	1.3821	499.575	120.511	0.53	44	84.56
S30_5	DI531	1.3514	488.182	120.584	1.347	42	84.08
S30_6	DI044	1.3087	488.182	116.774	1.347	42	84.08
S31	DI054	5.6314	487.995	502.677	1.36	67	89.981
S31_1	DI043	2.8892	487.996	257.899	1.36	38	83.12
S31_3	DI053	5.2826	487.995	471.542	1.36	47	85.015
S31_4	DI045	2.2527	487.996	201.083	1.36	34	82.34
S31_5	DI046	2.7888	487.995	248.937	1.36	32	81.68
S31_8	DI047	5.4637	487.995	487.707	1.36	38	83.047
S31_9	DI054	0.4095	487.999	36.553	1.36	100	98
S32	DI037	4.0058	467.981	372.863	1.614	53	86.84
S33_1	J5	1.121	95.511	511.258	5.459	71	91.07
S33_2	DI030	2.0854	177.68	511.256	5.459	71	91.07

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S338	I114	4.8968	383.045	556.866	4.835	40	83.66
S34	DI328	0.3436	378.084	39.587	5.135	100	98
S344_1	DI234	2.0572	364.173	246.069	9.894	41	82.983
S35	DI330	0.3459	376.046	40.068	5.044	99	97.79
S35_1	DI258	0.4024	490.295	35.751	5.665	66	89.218
S35_10	DI153	0.5448	490.29	48.403	5.665	100	98
S35_11	DI293	7.1321	490.294	633.649	5.665	14	77.033
S35_12	DI265	0.715	490.293	63.524	5.665	54	85.52
S35_14	DI070	2.034	490.294	180.71	5.665	78	92.72
S35_15	J29	1.0106	490.296	89.786	5.665	55	87.53
S35_16	DI263	0.3305	490.297	29.363	5.665	100	98
S35_17	DI099	2.4241	490.295	215.368	5.665	46	84.527
S35_18	DI488	0.3662	490.293	32.535	5.665	89	94.975
S35_19	DI276	0.1711	490.304	15.201	5.665	100	98
S35_2	DI256	2.0842	490.294	185.17	5.665	100	98
S35_20	DI267	0.5921	490.293	52.605	5.665	46	83.15
S35_21	DI268	0.5905	490.292	52.463	5.665	75	91.125
S35_22	DI283	1.6234	490.295	144.23	5.665	57	87.217
S35_23	DI273	0.3938	490.294	34.987	5.665	100	98
S35_24	DI275	0.3639	490.287	32.331	5.665	100	98
S35_25	DI270	0.5436	490.294	48.296	5.665	100	98
S35_26	DI274	0.7056	490.292	62.689	5.665	99	97.773
S35_27	DI277	0.5055	490.294	44.911	5.665	72	90.738
S35_28	DI284	0.9985	490.296	88.711	5.665	81	93.366
S35_29	DI301	1.9692	490.294	174.953	5.665	80	93.2
S35_3	DI259	1.375	490.296	122.161	5.665	53	86.21
S35_30	DI278	0.221	490.286	19.635	5.665	70	90.8
S35_31	DI282	0.1997	490.302	17.742	5.665	44	84.56
S35_32	DI285	0.4954	490.29	44.014	5.665	82	93.68
S35_33	DI300	1.1567	490.292	102.767	5.665	88	95.12
S35_34	DI302	1.1478	490.293	101.976	5.665	14	77.36
S35_35	DI159	0.5527	143.447	167.836	5.665	43	83.888
S35_36	DI297	2.2682	490.295	201.517	5.665	48	86.17
S35_37	J22	0.1729	102.344	73.59	5.665	95	76.88
S35_38	DI294	0.9065	490.292	80.538	5.665	84	94.16
S35_39	SP4	0.6554	387.95	73.59	5.665	12	76.88
S35_4	DI257	0.3167	490.296	28.137	5.665	92	95.95

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S35_40	DI298	1.3581	490.294	120.66	5.665	77	92.48
S35_41	J25	0.5226	240.726	94.566	5.665	73	92.87
S35_42	DI122	0.979	254.089	167.836	5.665	43	83.888
S35_43	DI136	0.5419	249.616	94.566	5.665	73	92.87
S35_5	DI261	1.7953	490.293	159.503	5.665	33	81.403
S35_6	DI260	0.2506	490.304	22.264	5.665	100	98
S35_7	DI262	2.0398	490.295	181.225	5.665	80	92.883
S35_8	DI178	2.0936	490.294	186.005	5.665	38	83.1
S35_9	DI522	0.3574	92.759	167.836	5.665	43	83.888
S356_2	I111	4.8611	438.668	482.71	4.268	27	79.772
S356_3	DI229	2.1535	438.668	213.844	4.268	55	86.683
S356_4	DI230	2.3207	438.668	230.447	4.268	55	86.787
S36	DI306	0.4365	350.597	54.233	3.55	100	98
S37	DI032	1.1784	292.358	175.576	3.844	97	97.28
S37_1	DI248	1.0455	419.912	108.456	3.768	48	84.32
S37_2	DI264	0.9503	419.913	98.58	3.768	41	83.84
S38_1	DI288	0.9219	397.285	101.081	3.699	84	94.16
S38_11	DI505	0.7506	421.174	77.631	4.558	97	97.31
S38_12	I034	0.1502	421.159	15.535	4.558	96	97.04
S38_13	I536	3.7502	298.985	546.378	4.865	39	85.76
S38_14	DI101	0.5481	410.566	58.152	5.768	100	98
S38_15	DI166	0.1773	410.568	18.811	5.768	100	98
S38_16	DI173	3.3855	410.567	359.192	5.768	81	92.19
S38_17	DI169	0.4691	410.569	49.77	5.768	51	82.545
S38_18	DI168	3.6166	410.567	383.711	5.768	67	88.158
S38_19	DI172	0.2731	410.569	28.975	5.768	95	97.5
S38_2	DI295	0.5965	397.284	65.403	3.699	100	98
S38_20	DI161	2.0464	410.568	217.117	5.768	71	91.04
S38_21	DI160	0.979	410.568	103.869	5.768	84	93.948
S38_22	DI135	1.4376	410.568	152.525	5.768	96	96.95
S38_23	DI171	0.8286	410.568	87.912	5.768	70	91.406
S38_24	DI167	1.9404	410.567	205.871	5.768	8	78.22
S38_25	DI156	0.9018	410.569	95.678	5.768	69	90.2
S38_26	DI084	0.5324	410.568	56.486	5.768	100	98
S38_27	DI157	1.0765	410.566	114.214	5.768	81	93.44
S38_28	DI155	1.1017	410.568	116.887	5.768	95	96.799
S38_29	DI139	2.6435	410.567	280.468	5.768	99	97.738

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S38_3	DI281	0.9353	397.286	102.55	3.699	88	95.12
S38_30	DI083	1.4611	410.566	155.019	5.768	67	90.666
S38_31	DI141	2.8793	410.566	305.486	5.768	87	94.425
S38_32	DI149	0.9173	410.567	97.323	5.768	93	96.31
S38_33	DI079	0.1442	88.032	71.353	4.558	66	91.157
S38_34	DI146	1.0602	410.568	112.484	5.768	99	97.779
S38_35	DI144	0.6915	410.568	73.366	5.768	100	98
S38_36	DI145	0.5402	410.565	57.314	5.768	100	98
S38_37	DI147	1.1594	410.567	123.009	5.768	98	97.488
S38_38	DI154	1.9496	410.567	206.847	5.768	96	97.011
S38_39	DI148	0.879	410.569	93.259	5.768	100	98
S38_4	DI218	0.5672	397.286	62.19	3.699	15	77.6
S38_40	DI140	0.6892	410.568	73.122	5.768	82	94.154
S38_41	DI150	0.3359	410.567	35.638	5.768	100	98
S38_42	DI138	5.0878	410.567	539.801	5.768	92	95.88
S38_43	DI092	1.0454	410.567	110.914	5.768	100	98
S38_44	DI137	0.5424	410.568	57.547	5.768	95	96.838
S38_45	DI134	2.5499	410.567	270.537	5.768	100	98
S38_46	DI089	0.4207	410.568	44.635	5.768	100	98
S38_47	DI132	0.3673	410.572	38.969	5.768	100	98
S38_48	DI143	0.5091	410.568	54.014	5.768	98	97.58
S38_49	DI133	0.3173	410.563	33.665	5.768	100	98
S38_5	DI504	0.5462	421.173	56.491	4.558	100	98
S38_50	DI091	0.4918	410.564	52.179	5.768	100	98
S38_51	J10	0.5344	410.569	56.698	5.768	100	98
S38_52	DI128	7.2386	410.567	767.995	5.768	76	91.64
S38_53	DI103	0.2024	410.568	21.474	5.768	100	98
S38_54	DI095	0.5654	410.569	59.987	5.768	100	98
S38_55	DI123	0.8139	410.569	86.352	5.768	100	98
S38_56	DI100	0.7427	410.569	78.798	5.768	22	76.55
S38_57	DI503	0.6559	410.568	69.589	5.768	6	72.15
S38_58	DI125	0.4436	410.564	47.065	5.768	100	98
S38_59	DI124	0.0637	410.591	6.758	5.768	90	95.25
S38_6	DI227	0.5629	397.283	61.719	3.699	10	76.4
S38_60	DI098	0.1104	410.572	11.713	5.768	100	98
S38_61	DI104	0.2156	410.559	22.875	5.768	60	87
S38_62	I049	1.8853	410.567	200.025	5.768	38	73.729

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S38_63	DI501	3.3371	483.461	300.674	4.65	51	82.68
S38_64	DI130	0.9467	410.568	100.442	5.768	95	96.646
S38_65	DI102	0.8996	410.567	95.445	5.768	0	70.5
S38_66	DI131	0.4092	410.567	43.415	5.768	96	96.9
S38_67	DI096	0.758	410.565	80.422	5.768	100	98
S38_68	DI093	1.0422	410.569	110.574	5.768	97	97.175
S38_69	DI090	0.4629	410.57	49.112	5.768	86	94.47
S38_7	MH053	0.8637	360.987	104.222	4.558	97	97.37
S38_70	I063	13.3646	410.567	1417.946	5.768	10	73.37
S38_71	DI097	0.4956	410.565	52.582	5.768	100	98
S38_72	DI129	0.8784	410.566	93.196	5.768	97	97.175
S38_73	DI126	1.6033	410.566	170.106	5.768	30	80.19
S38_74	DI127	0.5453	410.566	57.855	5.768	100	98
S38_75	I707	0.5349	410.57	56.751	5.768	38	73.729
S38_76	I060	1.6068	483.462	144.773	4.65	51	82.68
S38_77	DI086	0.0612	112.271	23.745	5.768	100	98
S38_78	DI088	0.1627	298.472	23.745	5.768	100	98
S38_79	J39	0.5457	333.142	71.353	4.558	66	91.157
S38_8	DI537	0.8917	298.986	129.914	4.865	0	75.8
S38_80	DI078	0.144	60.185	104.223	4.558	97	97.37
S38_9	DI489	0.5723	421.176	59.19	4.558	100	98
S39	DI207	3.7809	388.993	423.391	3.739	100	98
S39_1	DI312	7.3804	336.71	954.799	3.62	33	82.86
S39_10	DI205	1.1276	388.994	126.27	3.739	91	95.71
S39_11	DI203	15.4854	388.993	1734.078	3.739	54	86.698
S39_3	DI206	11.2608	388.993	1261.001	3.739	89	95.354
S39_4	DI204	15.2926	388.993	1712.488	3.739	63	88.918
S39_5	DI195	2.5264	388.993	282.91	3.739	100	98
S39_6	DI199	0.1583	388.986	17.727	3.739	100	98
S39_7	DI198	0.3359	388.989	37.615	3.739	100	98
S39_8	DI197	1.5265	388.992	170.94	3.739	98	97.52
S39_9	DI196	1.8745	388.993	209.909	3.739	97	97.28
S398	DI231	4.7467	407.779	507.055	3.845	59	87.33
S4	DI244	6.2693	315.424	865.789	3.772	38	83.12
S40	DI109	7.2392	480.918	655.703	8.482	48	75.844
S407_1	DI213	4.7348	333.967	617.57	4.399	28	81.655
S41	DI031	6.1612	467.98	573.49	1.614	21	77.63

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S41_1	DI235	0.6468	407.743	69.099	10.224	98	97.465
S41_2	DI236	4.4102	407.74	471.154	10.224	19	76.319
S42	DI158	8.2121	381.275	938.218	4.605	58	87.92
S43	DI003	0.4504	504.68	38.875	5.596	89	95.358
S430	DI232	2.7773	317.659	380.846	6.861	75	91.848
S433_1	DI217	2.0129	336.083	260.894	5.662	96	96.9
S433_3	DI216	0.6034	336.084	78.207	5.662	49	87.035
S433_4	I103	4.7217	336.083	611.984	5.662	13	74.66
S44	DI335	4.7355	362.926	568.376	4.416	35.704	61.432
S45	DI359	7.7188	440.303	763.635	4.081	5.299	75.934
S456	I105	0.8379	130.39	279.921	14.847	22	73.535
S461_1	DI222	0.9753	279.462	152.021	4.58	59	87.765
S461_3	DI224	3.7447	279.462	583.69	4.58	68	89.752
S461_4	DI223	1.3558	279.462	211.33	4.58	74	91.039
S462	DI498	6.4382	517.619	541.804	3.543	72	91.443
S484_1	DI226	0.9227	231.381	173.708	5.741	40	83.06
S484_2	DI225	2.6646	231.382	501.638	5.741	71	90.042
S5	DI536	10.0792	344.749	1273.535	4.506	42	85.48
S5_1	DI242	0.6639	311.73	92.771	3.818	83	96.13
S5_2	DI249	7.9316	311.729	1108.336	3.818	40	83.78
S5_3	DI245	0.4244	311.73	59.304	3.818	84	94.94
S5_4	DI241	7.6675	350.819	952.047	3.327	69	90.56
S5_5	DI243	0.4917	311.727	68.709	3.818	89	96.79
S5_6	DI247	1.5721	311.729	219.68	3.818	0	82.6
S5_7	DI240	0.8227	261.89	136.839	3.303	100	98
S5_8	DI239	1.2114	261.891	201.491	3.303	36	83.27
S517	DI221	2.5175	388.647	282.164	9.216	9	73.685
S597_1	DI190	0.6415	499.969	55.891	5.072	89	95.36
S597_2	DI181	1.4558	499.966	126.838	5.072	84	94.033
S597_3	DI374	0.4553	499.971	39.668	5.072	79	92.96
S6	DI021	0.8988	504.962	77.534	5.597	9	76.16
S6_1	DI525	1.3546	504.962	116.853	5.597	50	86
S6_10	DI254	2.8169	364.381	336.747	3.151	82	93.68
S6_13	DI035	2.9427	467.98	273.909	1.614	69	90.56
S6_14	DI039	2.8417	467.98	264.508	1.614	71	91.04
S6_16	DI040	2.8737	467.979	267.487	1.614	69	90.56
S6_17	DI031	0.2541	467.977	23.652	1.614	100	98

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S6_18	DI041	3.2801	467.979	305.315	1.614	71	91.039
S6_2	DI057	8.4862	358.617	1030.79	4.892	54	86.96
S6_20	DI372	0.3057	467.977	28.455	1.614	100	98
S6_23	DI360	4.3802	364.381	523.632	3.151	11	77.03
S6_24	DI371	4.1458	467.98	385.895	1.614	38	82.194
S6_25	I004	1.6487	467.981	153.462	1.614	53	85.075
S6_26	DI029	0.3089	467.975	28.753	1.614	62	88.622
S6_27	DI368	0.45	467.985	41.886	1.614	26	77.65
S6_28	DI370	2.011	467.979	187.186	1.614	31	79.025
S6_29	DI369	0.5595	467.978	52.079	1.614	50	84.25
S6_3	DI491	1.8815	449.091	182.498	4.11	59	88.16
S6_30	DI365	0.9296	467.98	86.528	1.614	54	85.35
S6_31	DI001	0.8977	449.211	87.05	3.806	78	92.72
S6_32	DI366	1.6488	467.979	153.472	1.614	57	86.175
S6_33	DI023	1.9811	467.979	184.403	1.614	39	80.73
S6_34	DI022	1.665	467.979	154.98	1.614	64	88.567
S6_35	DI018	2.6848	421.833	277.242	7.488	50	86.92
S6_36	DI025	1.1269	449.209	109.276	3.806	46	83.84
S6_37	DI002	0.2694	449.206	26.124	3.806	100	98
S6_38	DI024	1.8562	449.21	179.996	3.806	57	87.856
S6_39	DI002	6.6302	449.211	642.931	3.806	48	85.053
S6_4	DI524	0.5043	504.961	43.503	5.597	50	86
S6_40	DI116	0.7343	275.031	116.3	5.62	36	80.405
S6_42	DI020	1.5163	421.832	156.579	7.488	13	76.675
S6_43	DI016	2.0582	275.032	325.981	5.62	29	79.836
S6_44	DI017	1.9938	275.032	315.781	5.62	49	85.403
S6_45	DI353	5.9646	364.381	713.039	3.151	0	75.17
S6_46	DI014	1.2837	275.033	203.314	5.62	53	85.081
S6_47	DI007	2.1521	504.964	185.648	5.597	42	84.08
S6_48	DI019	0.2413	504.974	20.815	5.597	19	78.56
S6_5	DI034	1.1897	467.981	110.738	1.614	51	86.24
S6_50	DI009	1.941	504.963	167.438	5.597	67	90.34
S6_52	DI036	0.5684	504.966	49.032	5.597	9	76.16
S6_53	DI034	4.1795	467.98	389.032	1.614	62	88.88
S6_54	DI008	0.457	504.957	39.423	5.597	15	77.6
S6_55	DI373	3.2072	467.98	298.529	1.614	63	88.876
S6_6	DI033	5.9881	467.98	557.378	1.614	72	91.28

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S6_7	DI322	2.4704	364.382	295.324	3.151	29	83.17
S6_8	DI253	0.3042	364.377	36.366	3.151	100	98
S6_9	DI255	2.2449	364.381	268.367	3.151	79	92.96
S613_1	DI188	0.3118	345.493	39.312	4.411	100	98
S613_2	DI187	2.419	345.492	304.99	4.411	91	95.798
S626	DI183	0.7148	176.868	176.045	8.903	12	79.276
S650_1	J2	2.2491	214.581	456.568	6.663	82	94.1
S650_2	DI184	0.3382	214.58	68.655	6.663	82	94.1
S653	DI186	6.1661	496.34	541.152	7.765	64	90.159
S692	DI363	3.3823	222.995	660.701	3.939	61	88.64
S7	DI085	0.629	375.553	72.957	4.618	0	77.9
S7_6	DI119	0.7056	497.208	61.817	4.451	100	98
S712	I087	1.7953	242.664	322.27	4.37	74	91.493
S714_2	DI179	0.5739	275.172	90.849	9.801	100	98
S714_3	DI177	1.4771	275.172	233.826	9.801	80	92.5
S714_4	DI176	0.3764	275.174	59.584	9.801	100	98
S714_5	DI180	0.4174	275.171	66.075	9.801	98	97.453
S714_6	DI511	0.3073	275.171	48.646	9.801	98	97.453
S741_3	DI163	0.8852	600.678	64.193	3.336	100	98
S741_4	DI162	0.9569	600.674	69.393	3.336	21	79.04
S741_5	DI164	1.2751	600.677	92.468	3.336	71	91.04
S750	DI174	4.446	292.579	661.933	4.434	72	90.602
S771	DI252	6.9228	475.579	634.084	4.605	58	88.19
S776	DI515	3.4601	274.764	548.551	10.047	0	67.305
S797_2	DI060	0.9738	366.219	115.829	4.111	54	86.96
S797_4	DI058	2.9662	366.218	352.816	4.111	56	87.44
S797_5	DI059	1.791	366.219	213.031	4.111	35	82.4
S8	DI038	3.0966	467.981	288.234	1.614	56	87.437
S8_1	DI344	3.1517	374.299	366.787	3.43	53	88.93
S8_11	DI233	2.7734	226.081	534.363	4.5	72	91.28
S8_13	DI250	0.5304	419.916	55.021	3.768	100	98
S8_16	DI333	0.4784	374.299	55.675	3.43	89	95.36
S8_5	DI272	2.0186	292.358	300.762	3.844	76	92.24
S8_8	DI185	2.97	226.081	572.243	4.5	44	84.56
S821_1	DI351	1.9802	256.286	336.567	6.035	81	93.081
S821_2	DI350	1.1485	256.286	195.206	6.035	87	94.523
S821_4	DI152	1.0733	256.286	182.425	6.035	73	91.479

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S821_5	DI151	0.744	256.286	126.455	6.035	19	77.624
S824	DI316	0.135	378.052	15.555	3.983	100	98
S824_1	DI266	6.1558	378.061	709.268	3.983	70	90.753
S824_10	DI280	0.3167	378.061	36.49	3.983	96	96.9
S824_11	DI286	0.1972	378.066	22.721	3.983	100	98
S824_12	DI291	0.2612	378.065	30.095	3.983	94	96.414
S824_13	DI290	0.3765	378.062	43.38	3.983	91	95.649
S824_14	DI496	0.9248	378.061	106.555	3.983	100	98
S824_2	DI305	0.7034	378.063	81.045	3.983	38	83.12
S824_3	DI307	1.1215	378.06	129.219	3.983	100	98
S824_4	DI289	0.7194	378.061	82.889	3.983	100	98
S824_6	DI303	0.9836	378.061	113.33	3.983	100	98
S824_7	DI292	0.1602	378.064	18.458	3.983	100	98
S824_8	DI317	0.9126	378.062	105.149	3.983	100	98
S824_9	DI279	2.0547	378.06	236.742	3.983	46	88.225
S832_3	DI061	2.7619	461.909	260.459	3.956	28	81.64
S838_1	DI357	1.9944	379.594	228.866	5.324	34	85.46
S838_3	DI356	0.2684	379.594	30.8	5.324	100	98
S838_4	DI358	1.9088	379.594	219.043	5.324	44	83.511
S853_2	DI352	1.3046	190.018	299.068	4.529	82	93.143
S853_3	DI355	0.2502	190.019	57.356	4.529	100	98
S853_4	DI354	1.6898	190.018	387.372	4.529	87	94.693
S856_1	DI345	0.2469	402.205	26.74	6.204	100	98
S856_10	DI339	0.8451	402.209	91.526	6.204	94	96.558
S856_11	DI341	0.6823	402.206	73.895	6.204	35	82.97
S856_12	DI340	0.3646	402.208	39.487	6.204	52	86.75
S856_13	DI348	0.4612	402.208	49.949	6.204	71	91.04
S856_2	DI329	0.7456	402.208	80.75	6.204	67	90.08
S856_3	DI346	0.2308	402.21	24.996	6.204	100	98
S856_4	DI347	0.0633	402.18	6.856	6.204	50	86
S856_5	DI342	0.1074	402.196	11.632	6.204	100	98
S856_6	DI338	1.7024	402.207	184.374	6.204	72	93.698
S856_8	DI349	0.1614	402.207	17.48	6.204	100	98
S856_9	DI343	1.3759	402.208	149.013	6.204	51	86.48
S864_1	DI321	0.2069	351.381	25.649	3.824	100	98
S864_10	DI326	0.4762	351.384	59.033	3.824	100	98
S864_11	DI494	0.6229	291.098	93.211	3.824	100	98

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S864_12	DI332	0.5224	351.38	64.761	3.824	100	98
S864_13	J16	0.1289	60.238	93.212	3.824	100	98
S864_2	DI535	0.5059	351.383	62.715	3.824	95	96.8
S864_3	DI495	0.2207	351.378	27.36	3.824	92	96.08
S864_4	DI324	0.9958	351.382	123.447	3.824	100	98
S864_5	J9	0.6557	140.902	202.71	3.824	95	96.95
S864_6	DI323	0.1112	351.387	13.785	3.824	100	98
S864_7	DI315	0.534	351.381	66.199	3.824	100	98
S864_8	DI331	0.9795	210.482	202.711	3.824	95	96.95
S864_9	DI325	0.3999	351.38	49.575	3.824	100	98
S868	DI110	0.5761	479.579	52.327	5.9	89	94.975
S868_10	DI111	0.7281	479.572	66.134	5.9	100	98
S868_2	DI114	0.3976	479.577	36.114	5.9	100	98
S868_4	DI115	0.0637	479.567	5.786	5.9	100	98
S868_5	DI112	0.1405	479.563	12.762	5.9	100	98
S868_6	DI117	0.1249	479.563	11.345	5.9	100	98
S868_8	DI113	0.2034	479.573	18.475	5.9	100	98
S869	DI318	0.4382	365.593	52.211	4.581	100	98
S869_3	DI327	0.7028	365.592	83.738	4.581	77	92.48
S869_4	DI320	2.0024	365.594	238.583	4.581	92	96.08
S872_4	DI077	0.8335	561.649	64.644	5.133	55	85.399
S880_1	J36	1.7899	356.184	218.898	3.779	83	94.07
S880_2	DI314	0.1928	356.18	23.579	3.779	91	95.84
S880_3	DI538	0.4886	356.184	59.754	3.779	91	95.84
S880_4	J33	2.128	356.185	260.246	3.779	97	97.28
S880_8	DI311	1.315	356.186	160.819	3.779	79	92.96
S886_3	DI121	3.5221	310.811	493.62	2.929	59	83.71
S890	DI336	0.4765	545.616	38.042	3.814	10	50.212
S890_1	J46	0.201	142.761	61.33	3.814	82	89.29
S890_2	DI334	2.4155	545.618	192.844	3.814	0	73.255
S890_3	DI337	0.5672	402.857	61.33	3.814	82	89.29
S890_4	J44	0.2306	545.624	18.41	3.814	100	98
S890_5	DI073	1.4347	545.617	114.541	3.814	40	83.587
S890_7	DI073	0.3101	545.622	24.757	3.814	100	98
S890_9	J45	0.1587	545.617	12.67	3.814	50	86
S892_1	DI364	2.0336	424.558	208.649	5.411	55	86.021
S892_2	DI028	0.7737	424.559	79.382	5.411	43	83.304

Name	Outlet	Area (ac)	Width (ft)	Flow Length (ft)	Slope (%)	Imperv. (%)	Curve Number
S892_4	DI490	0.3192	424.56	32.75	5.411	70	89.75
S892_6	DI027	1.0503	424.561	107.761	5.411	60	87.832
S892_7	DI026	0.8165	424.561	83.773	5.411	38	83.148
S893	DI076	0.1604	404.459	17.275	6.091	100	98
S893_1	DI015	1.9871	404.469	214.004	6.091	61	87.428
S893_3	DI013	2.0627	404.469	222.146	6.091	67	90.08
S893_4	DI094	1.1656	404.47	125.531	6.091	53	86.72
S893_5	DI080	1.2799	404.469	137.841	6.091	60	88.4
S893_6	DI012	1.0968	404.468	118.122	6.091	65	89.56
S893_7	DI011	0.9321	404.47	100.384	6.091	85	94.4
S9	DI175	6.9755	321.846	944.094	4.201	32	83.052
S908_1	DI006	1.6164	379.923	185.328	8.226	52	86.48
S927_2	DI005	1.3621	229.55	258.476	4.748	35	81.305
S995	DI049	1.5188	499.999	132.318	0.5	67	90.08
S995_3	DI048	1.5715	500	136.909	0.5	73	91.62

Attachment 4

SCS Curve Numbers



Figure 1 *Soils Data Boundary*

SCS curve numbers

	Hydrologic Soil Group1			
Land Use Description	**A**	**B**	**C**	**D**
Cultivated land				
Without conservation treatment	72	81	88	91
With conservation treatment	62	71	78	81
Pasture or range land				
Poor condition	68	79	86	89
Good condition	39	61	74	80
Meadow				
Good condition	30	58	71	78
Wood or forest land				
Thin stand, poor cover, no mulch	45	66	77	83
Good cover[2]	25	55	70	77
Open spaces, lawns, parks, golf courses, cemeteries, etc.				
Good condition: grass cover on 75% or more of the area	39	61	74	80
Fair condition: grass cover on 50 - 75% of the area	49	69	79	84
Commercial and business areas (85% impervious)	89	92	94	95
Industrial districts (72% impervious)	81	88	91	93
Residential[3] Average lot size (% Impervious[4])				
1/8 ac or less (65)	77	85	90	92
1/4 ac (38)	61	75	83	87
1/3 ac (30)	57	72	81	86
1/2 ac (25)	54	70	80	85
1 ac (20)	51	68	79	84
Paved parking lots, roofs, driveways, etc.[5]	98	98	98	98
Streets and roads				
Paved with curbs and storm sewers[5]	98	98	98	98
Gravel	76	85	89	91
Dirt	72	82	87	89

1. Antecedent moisture condition II; Source: SCS Urban Hydrology for Small Watersheds, 2nd Ed., (TR-55), June 1986.
2. Good cover is protected from grazing and litter and brush cover soil.
3. Curve numbers are computed assuming that the runoff from the house and driveway is directed toward the street with a minimum of roof water directed to lawns where additional infiltration could occur.
4. The remaining pervious areas (lawn) are considered to be in good pasture condition for these curve numbers.
5. In some warmer climates of the country a curve number of 95 may be used.

Disclaimer

The values listed here were transcribed from the original reference(s) cited; CHI does not guarantee their accuracy, completeness or suitability for any purpose. The reader should read the source document(s) to understand the limitations and appropriateness of the information. The modeler is obligated to verify the applicability of these and all attributes/parameters used in their models. Professional engineering judgement must be used throughout the modeling exercise.

Land Use Description	A	B	C	D
1 ac (20)	51	68	79	84
1/2 ac (25)	54	70	80	85
1/3 ac (30)	57	72	81	86
1/4 ac (38)	61	75	83	87
1/8 ac or less (65)	77	85	90	92
Commercial and business areas (85% impervious)	89	92	94	95
Dirt	72	82	87	89
Fair condition: grass cover on 50 - 75% of the area	49	69	79	84
Good condition	39	61	74	80
Good condition	30	58	71	78
Good condition: grass cover on 75% or more of the area	39	61	74	80
Good cover[2]	25	55	70	77
Gravel	76	85	89	91
Industrial districts (72% impervious)	81	88	91	93
Paved parking lots, roofs, driveways, etc.[5]	98	98	98	98
Paved with curbs and storm sewers[5]	98	98	98	98
Poor condition	68	79	86	89
Thin stand, poor cover, no mulch	45	66	77	83
With conservation treatment	62	71	78	81
Without conservation treatment	72	81	88	91

NRCS hydrologic soil group definitions

Group	Meaning	Saturated Hydraulic Conductivity (in/hr)	Saturated Hydraulic Conductivity (mm/hr)
A	Low runoff potential. Soils having high infiltration rates even when thoroughly wetted and consisting chiefly of deep, well to excessively drained sands or gravels.	≥ 0.45	≥ 11.43
B	Soils having moderate infiltration rates when thoroughly wetted and consisting chiefly of moderately deep to deep, moderately well to well-drained soils with moderately fine to moderately coarse textures. E.g., shallow loess, sandy loam.	0.30 - 0.15	7.62-3.81
C	Soils having slow infiltration rates when thoroughly wetted and consisting chiefly of soils with a layer that impedes downward movement of water, or soils with moderately fine to fine textures. E.g., clay loams, shallow sandy loam.	0.15 - 0.05	3.81-1.27
D	High runoff potential. Soils having very slow infiltration rates when thoroughly wetted and consisting chiefly of clay soils with a high swelling potential, soils with a permanent high water table, soils with a clay-pan or clay layer at or near the surface, and shallow soils over nearly impervious material.	0.05 - 0.00	1.27-0.00

Source: Hydrology National Engineering Handbook, Chapter 7, Natural Resources Conservation Service, U.S. Department of Agriculture, January 2009.

Disclaimer

The values listed here were transcribed from the original reference(s) cited; CHI does not guarantee their accuracy, completeness or suitability for any purpose. The reader should read the source document(s) to understand the limitations and appropriateness of the information. The modeler is obligated to verify the applicability of these and all attributes/parameters used in their models. Professional engineering judgement must be used throughout the modeling exercise.

Attachment 5

Base Condition Model Data

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C534_1	Overland	I536	DI537	560.294	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	2.31%		Ehoover	0.35	0.35	0.32
C534_2	Overland	DI537	I115	175.039	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.00%		Ehoover	0.35	0.35	0.32
C536	Overland	I114	I113	226.487	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.37%		Ehoover2	0.35	0.35	0.32
C33	Overland	I009	I060	665.603	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	-0.35%		ElkCreek	0.25	0.25	0.2
C50	Overland	I189	I009	1287.5	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.34%		ElkCreek	0.25	0.25	0.2
C54	Overland	I707	SP7	40.038	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.45%		S101-c54	0.15	0.15	0.15
C55	Overland	SP7	I049	190.502	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	3.04%		S101-c55	0.15	0.15	0.15
C11	Overland	I185	I183	1956.473	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	-0.26%		T-C11	0.4	0.4	0.6
C29	Overland	I183	I095	55.109	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	3.63%		T-C11	0.4	0.4	0.6
C15	Overland	I101	DI183	1358.822	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	1.20%		T-C15	0.15	0.15	0.15
C17	Street	DI514	DI199	59.924	0.017	0	0	0.1	0.1	IRREGULAR	0	0	1	-0.35%		T-C1-7Wilson-rd	0.011	0.011	0.011
C19	Overland	I002	I087	458.282	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.22%		T-C19-2	0.4	0.4	0.6
C614	Overland	I029	I190	69.259	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	-1.44%		T-C20	0.13	0.13	0.13
C615	Overland	I030	I190	72.374	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	-1.38%		T-C20	0.13	0.13	0.13
C20	Overland	I190	OF4	107.936	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.37%		T-C20-2	0.13	0.13	0.13
C33_1	Overland	DI512	I188	84.016	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.00%		T-C33_1	0.35	0.35	0.32
C33_4	Overland	SP1	I092	197.746	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.00%		T-C33_2	0.35	0.35	0.32
C33_5	Overland	I188	SP1	225.722	0.06	0	0	0	0.1	IRREGULAR	0	0	1	0.00%		T-C33_2	0.35	0.35	0.32
C37	Overland	I186	DI515	461.409	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	-0.98%		T-C37	0.4	0.4	0.6
C56	Overland	I186	I070	450.069	0.06	0	0	0	0	IRREGULAR	0	0	1	-1.11%		T-C37	0.4	0.4	0.6
C9	Overland	I086	I186	215.742	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	3.30%		T-C37	0.4	0.4	0.6
C3	Overland	I123	DI537	275.57	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	-0.36%		T-C3swale	0.05	0.04	0.05
C5_1	Overland	I103	OF1	344.337	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	1.10%		T-C5_1	0.4	0.4	0.6
C507	Overland	I102	I103	31.137	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	29.27%		T-C507	0.04	0.04	0.06
C6	Overland	I063	I009	389.49	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	1.26%		T-C6	0.04	0.04	0.06
C6_2	Overland	I057	I009	350.038	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.82%		T-C6_2	0.04	0.04	0.06
C624	Overland	I112	CreekStorage	159.206	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	8.58%		T-C624	0.04	0.04	0.06
C622	Overland	I116	CreekStorage	881.373	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	2.40%		T-C626	0.04	0.04	0.06
C626	Overland	CreekStorage	I110	820.339	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.00%		T-C626	0.04	0.04	0.06
C627	Overland	I110	I185	472.66	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	1.66%		T-C627	0.04	0.04	0.06
C707_1	Overland	I105	I185	187.228	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	4.69%		T-C707_1	0.04	0.04	0.06
C9_1	Overland	I087	I186	310.92	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	1.33%		T-C9_1	0.04	0.04	0.06
C5	Overland	I049	OF3	72.879	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	2.20%		Transect1	0.04	0.04	0.06
C51	Overland	I191	OF9	68.176	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	22.21%		Transect4	0.04	0.04	0.06
C52	Overland	I192	OF5	24.053	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	16.87%		Transect5	0.04	0.04	0.06
C53	Overland	I193	OF2	87.235	0.06	0	0	0.1	0.1	IRREGULAR	0	0	1	0.57%		Transect6	0.04	0.04	0.06
C001	Closed-Conduit	DI018	I038	74.026	0.012	1.7	0	0.1	0.1	CIRCULAR	1	0	1	5.21%					
C002	Closed-Conduit	DI019	MH015	85.566	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.10%					
C003	Closed-Conduit	DI038	DI039	205.587	0.014	0	0	0.1	0.1	CIRCULAR	3	0	1	0.04%					
C004	Closed-Conduit	I010	DI038	23.358	0.014	0	0	0.1	0.1	CIRCULAR	3	0	1	0.01%					
C005	Closed-Conduit	DI037	I010	19	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.11%					
C006	Closed-Conduit	DI034	DI035	39.953	0.014	1	0	0.1	0.1	CIRCULAR	2	0	1	0.71%					
C007	Closed-Conduit	DI035	DI037	207.844	0.014	0.6	0	0.1	0.1	CIRCULAR	2	0	1	0.86%					
C009	Closed-Conduit	DI033	DI034	219.879	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.05%					
C011	Closed-Conduit	DI032	MH070	391.139	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.04%					
C014	Closed-Conduit	I021	DI032	361.201	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.16%					
C015	Closed-Conduit	DI060	I021	318.661	0.014	0.5	0	0.1	0.1	CIRCULAR	2	0	1	0.56%					
C016	Closed-Conduit	I020	DI060	115.488	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.34%					
C017	Closed-Conduit	DI058	I019	12.38	0.014	3.1	0	0.1	0.1	CIRCULAR	1	0	1	31.92%					
C018	Closed-Conduit	I019	I020	195.576	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	0.36%					
C019	Closed-Conduit	DI059	I020	5.957	0.014	2.1	2.1	0.1	0.1	CIRCULAR	2	0	1	-0.07%					
C020	Closed-Conduit	DI057	I019	265.46	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	0.66%					
C021	Closed-Conduit	DI043	I011	37.922	0.014	0.65	0.2	0.1	0.1	CIRCULAR	1.5	0	1	0.69%					
C022	Closed-Conduit	DI044	I012	33.244	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.29%					
C023	Closed-Conduit	I011	I012	37.222	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.19%					
C024_1	Closed-Conduit	DI008	I003	134.896	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.07%					
C024_2	Closed-Conduit	I003	DI019	25.508	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.26%					
C025	Closed-Conduit	I012	I013	219.981	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	2.89%					
C026	Closed-Conduit	DI047	I015	187.338	0.014	2.5	0	0.1	0.1	CIRCULAR	1	0	1	2.98%					
C027	Closed-Conduit	DI046	I015	31.947	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	3.29%					
C028	Closed-Conduit	DI045	I014	35.751	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	6.95%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C029	Closed-Conduit	I015	I014	37.019	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.93%					
C030_1	Closed-Conduit	I014	I022	195.726	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.06%					
C030_2	Closed-Conduit	I022	I013	46.968	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.22%					
C031	Closed-Conduit	I013	I010	953.261	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.22%					
C032	Closed-Conduit	DI048	DI049	38.189	0.014	0.3	0.88	0.1	0.1	CIRCULAR	0.67	0	1	1.81%					
C033	Closed-Conduit	DI049	DI051	211.228	0.022	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.04%					
C034	Closed-Conduit	DI051	I016	42.251	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	3.95%					
C035	Closed-Conduit	DI010	DI008	54.852	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.04%					
C036	Closed-Conduit	DI052	I016	298.02	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.40%					
C037	Closed-Conduit	DI053	I017	24.445	0.014	0.75	0.4	0.1	0.1	CIRCULAR	1.5	0	1	5.49%					
C038	Closed-Conduit	I017	DI052	46.019	0.014	0.6	0.4	0.1	0.1	CIRCULAR	1.5	0	1	0.65%					
C039_1	Closed-Conduit	I016	MH069	419.999	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.17%					
C039_2	Closed-Conduit	MH069	I013	42.28	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.82%					
C040	Closed-Conduit	DI054	I018	51.383	0.014	2.2	0.1	0.1	0.1	CIRCULAR	1	0	1	0.66%					
C041	Closed-Conduit	I018	I017	742.775	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.04%					
C042	Closed-Conduit	DI056	DI055	39.723	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.51%					
C043	Closed-Conduit	DI251	I170	324.893	0.014	1	0	0.1	0.1	CIRCULAR	1	0	1	0.41%					
C044	Closed-Conduit	DI363	I170	54.998	0.012	0.6	0	0.1	0.1	CIRCULAR	1.5	0	1	0.13%					
C045	Closed-Conduit	DI061	I021	18.609	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.24%					
C046	Closed-Conduit	I170	DI491	155.538	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.09%					
C048	Closed-Conduit	DI009	DI008	69.7	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.46%					
C049	Closed-Conduit	DI361	DI492	3.266	0.012	0.7	0	0.1	0.1	CIRCULAR	1.5	0	1	4.11%					
C050	Closed-Conduit	DI491	DI492	13.522	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.85%					
C051_1	Closed-Conduit	DI492	DI362	184.59	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.12%					
C051_2	Closed-Conduit	DI362	DI359	399.051	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.43%					
C052	Closed-Conduit	DI360	DI359	39.487	0.014	0	1.2	0.1	0.1	CIRCULAR	1	0	1	3.34%					
C053	Closed-Conduit	DI359	I168	339.231	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.19%					
C054	Closed-Conduit	DI353	I168	82.895	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.77%					
C055	Closed-Conduit	I168	I163	71.998	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.69%					
C056	Closed-Conduit	DI344	I163	6.906	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	7.46%					
C057	Closed-Conduit	I163	I160	182.334	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.27%					
C059	Closed-Conduit	DI333	I160	9.642	0.014	1.8	0	0.1	0.1	CIRCULAR	1	0	1	31.82%					
C060	Closed-Conduit	DI322	I151	32.065	0.014	1.8	0	0.1	0.1	CIRCULAR	1	0	1	9.51%					
C063	Closed-Conduit	DI312	DI306	10.754	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	12.66%					
C065	Closed-Conduit	DI295	DI281	174.621	0.012	0	0	0.1	0.1	CIRCULAR	1	0	1	2.12%					
C066	Closed-Conduit	I143	I120	286.311	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.72%					
C067	Closed-Conduit	DI288	DI281	39.056	0.012	0	0.8	0.1	0.1	CIRCULAR	1.3	0	1	2.28%					
C068	Closed-Conduit	DI281	DI250	61.675	0.012	3.2	0.33	0.1	0.1	CIRCULAR	1	0	1	3.44%					
C069	Closed-Conduit	I104	DI009	279.165	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	2.01%					
C070	Closed-Conduit	DI250	I120	47.65	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.13%					
C071	Closed-Conduit	DI248	I120	17.082	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.93%					
C072	Closed-Conduit	DI272	DI264	39.254	0.012	0.1	0	0.1	0.1	CIRCULAR	1	0	1	0.08%					
C073	Closed-Conduit	I127	DI248	250.8	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.73%					
C074	Closed-Conduit	DI264	I127	29.958	0.012	2.3	0.1	0.1	0.1	CIRCULAR	1	0	1	9.92%					
C075	Closed-Conduit	I120	MH010	295.769	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.41%					
C076	Closed-Conduit	DI233	MH010	13.597	0.014	1.6	0	0.1	0.1	CIRCULAR	0.5	0	1	19.27%					
C077	Closed-Conduit	DI209	DI218	39.524	0.014	0.4	0	0.1	0.1	CIRCULAR	1	0	1	0.34%					
C078	Closed-Conduit	DI218	DI227	113.102	0.014	1.3	0	0.1	0.1	CIRCULAR	1	0	1	2.07%					
C079	Closed-Conduit	DI227	MH010	49.277	0.014	2.5	0.2	0.1	0.1	CIRCULAR	1	0	1	2.85%					
C080	Closed-Conduit	DI011	I104	15.71	0.014	1	0	0.1	0.1	CIRCULAR	0.67	0	1	10.58%					
C081	Closed-Conduit	DI255	I125	18.013	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.43%					
C082	Closed-Conduit	I125	I126	290.419	0.012	0	1	0.1	0.1	CIRCULAR	1.25	0	1	1.27%					
C083	Closed-Conduit	DI256	I126	19.254	0.013	0.9	0	0.1	0.1	CIRCULAR	1.25	0	1	11.65%					
C084	Closed-Conduit	DI257	I128	16.334	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	16.87%					
C085	Closed-Conduit	I126	I128	33.836	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.51%					
C086	Closed-Conduit	I128	DI258	12.601	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	3.48%					
C087	Closed-Conduit	DI258	DI259	135.205	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	5.14%					
C088	Closed-Conduit	DI254	I124	120.866	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	4.51%					
C089	Closed-Conduit	DI252	DI253	69.78	0.012	1.1	0	0.1	0.1	CIRCULAR	1.33	0	1	1.47%					
C090	Closed-Conduit	DI253	I124	72.312	0.012	3.1	0.25	0.1	0.1	CIRCULAR	1.5	0	1	7.49%					
C091	Closed-Conduit	I134	I104	11.346	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	3.20%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C092	Closed-Conduit	I124	DI259	293.727	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	2.17%					
C093	Closed-Conduit	DI259	DI260	39.707	0.014	5.9	0	0.1	0.1	CIRCULAR	1.5	0	1	0.99%					
C094	Closed-Conduit	DI260	I129	253.797	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.98%					
C095	Closed-Conduit	DI262	I129	169.226	0.014	0	0.75	0.1	0.1	CIRCULAR	1	0	1	1.94%					
C096	Closed-Conduit	DI261	DI263	44.846	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.56%					
C097	Closed-Conduit	I129	DI261	6.328	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.58%					
C098	Closed-Conduit	DI263	DI265	65.031	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	7.83%					
C099	Closed-Conduit	DI265	I130	197.19	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.53%					
C1	Street	DI347	DI340	210.389	0.017	0.8	1.5	0.1	0.1	STREET	0	0	1	3.09%	JStreet				
C10	Closed-Conduit	DI531	I013	20.512	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	25.07%					
C100	Closed-Conduit	DI266	DI267	70.734	0.012	0	0.35	0.1	0.1	CIRCULAR	1.4	0	1	3.12%					
C101	Closed-Conduit	DI267	I130	116.97	0.011	0	1.6	0.1	0.1	CIRCULAR	1	0	1	5.45%					
C102	Closed-Conduit	DI006	I134	37.199	0.013	0.7	0	0.1	0.1	CIRCULAR	1.5	0	1	3.06%					
C103	Closed-Conduit	I130	DI268	49.895	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	4.71%					
C104	Closed-Conduit	J50	DI063	301.817	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.66%					
C104_1	Closed-Conduit	DI268	MH042	37.117	0.013	2.6	0	0.1	0.1	CIRCULAR	2	0	1	2.32%					
C104_2	Closed-Conduit	MH042	DI269	12.435	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.54%					
C105	Closed-Conduit	DI488	I131	26.276	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	5.98%					
C106	Closed-Conduit	I131	DI269	100.687	0.012	0	0	0.1	0.1	CIRCULAR	1	0	1	3.95%					
C107	Closed-Conduit	DI270	DI269	14.834	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	19.96%					
C108	Closed-Conduit	DI271	DI273	193.304	0.014	0	0	0.1	0.1	CIRCULAR	2.67	0	1	-1.41%					
C109	Closed-Conduit	DI269	DI271	89.421	0.012	0	0	0.1	0.1	CIRCULAR	2	0	1	3.34%					
C110	Closed-Conduit	DI275	DI273	40.354	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.17%					
C111	Closed-Conduit	DI276	DI275	7.394	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.88%					
C112	Closed-Conduit	DI293	DI276	198.801	0.012	0	0	0.1	0.1	CIRCULAR	0.8	0	1	5.65%					
C113	Closed-Conduit	MH014	MH013	6.053	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.31%					
C114	Closed-Conduit	I169	I134	310.519	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.33%					
C115	Closed-Conduit	DI273	DI274	58.112	0.014	0	0	0.1	0.1	FILLED_CIRCULAR	2	1.9	1	1.82%					
C116	Closed-Conduit	DI274	DI277	38.947	0.013	0	1	0.1	0.1	FILLED_CIRCULAR	2	1.9	1	1.75%					
C117	Closed-Conduit	DI279	I132	11.929	0.014	2.5	0	0.1	0.1	CIRCULAR	1.5	0	1	28.30%					
C118	Closed-Conduit	DI280	I133	5.473	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	40.08%					
C119	Closed-Conduit	I132	I133	38.596	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.30%					
C12	Closed-Conduit	DI525	DI010	77.823	0.013	2.2	0	0.1	0.1	CIRCULAR	1	0	1	0.31%					
C120	Closed-Conduit	I133	DI277	250.235	0.011	0	1	0.1	0.1	CIRCULAR	1.5	0	1	2.39%					
C121	Closed-Conduit	J54	J53	3.439	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	2.65%					
C121_1	Closed-Conduit	DI277	DI508	42.748	0.013	1	0	0.1	0.1	CIRCULAR	2	0	1	0.41%					
C121_2	Closed-Conduit	DI508	DI284	226.99	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.57%					
C122	Closed-Conduit	DI284	I136	30.277	0.014	0.67	0	0.1	0.1	CIRCULAR	2	0	1	3.21%					
C123	Closed-Conduit	DI292	I139	9.304	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	4.41%					
C124	Closed-Conduit	I139	DI291	16.581	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.05%					
C125	Closed-Conduit	DI012	I169	6.829	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	72.02%					
C126	Closed-Conduit	DI291	DI290	45.657	0.014	0	0.1	0.1	0.1	FILLED_CIRCULAR	1	0.4	1	1.38%					
C127	Closed-Conduit	DI290	DI289	85.124	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.38%					
C128	Closed-Conduit	DI289	I137	114.908	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	1.54%					
C129	Closed-Conduit	DI286	I137	17.69	0.014	0.8	0.8	0.1	0.1	CIRCULAR	1	0	1	3.16%					
C13	Closed-Conduit	DI524	I003	40.699	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.74%					
C130	Closed-Conduit	DI496	I138	19.89	0.013	0	0	0.1	0.1	CIRCULAR	0.83	0	1	2.89%					
C131	Closed-Conduit	I138	MH034	134.952	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.14%					
C132	Closed-Conduit	I137	MH034	21.737	0.014	0.8	0	0.1	0.1	CIRCULAR	1	0	1	7.33%					
C133	Closed-Conduit	DI287	MH034	26.165	0.014	1	0	0.1	0.1	CIRCULAR	1	0	1	4.91%					
C134	Closed-Conduit	J56	J55	12.95	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	-15.31%					
C134_1	Closed-Conduit	MH034	J23	126.255	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	4.07%					
C134_2	Closed-Conduit	J23	I136	75.718	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	4.07%					
C134_3	Closed-Conduit	J31	J55	58.201	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	1.02%					
C134_4	Closed-Conduit	J58	J59	86.541	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	1.02%					
C134_5	Closed-Conduit	J55	J58	212.475	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	1.02%					
C134_7	Closed-Conduit	J59	J68	263.752	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	1.07%					
C135	Closed-Conduit	I136	DI285	8.47	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	3.15%					
C136	Closed-Conduit	DI013	I169	38.49	0.014	4	0	0.1	0.1	CIRCULAR	2	0	1	13.33%					
C137	Closed-Conduit	DI285	SP4	133.849	0.014	0	0	0.1	0.1	CIRCULAR	2.5	0	1	-0.20%					
C138	Closed-Conduit	J57	J58	8.938	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	-19.98%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C139	Closed-Conduit	SP4	DI302	150.625	0.013	0	0	0.1	0.1	CIRCULAR	2.5	0	1	-0.76%					
C14	Closed-Conduit	DI516	I100	157.505	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.40%					
C140	Closed-Conduit	DI303	DI302	300.6	0.014	0	1.75	0.1	0.1	CIRCULAR	1	0	1	0.62%					
C141	Closed-Conduit	J60	J59	8.267	0.012	0	0	0.1	0.1	CIRCULAR	2	0	1	-17.11%					
C142	Closed-Conduit	DI278	I135	40.96	0.014	1.7	0	0.1	0.1	CIRCULAR	2	0	1	2.21%					
C143	Closed-Conduit	I135	DI282	117.011	0.013	0	0	0.1	0.1	FILLED_CIRCULAR	2	1.9	1	0.17%					
C144	Closed-Conduit	DI283	J6	22.718	0.014	0.75	0	0.1	0.1	CIRCULAR	1.5	0	1	18.35%					
C145	Closed-Conduit	J63	J64	27.897	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	5.14%					
C145_1	Closed-Conduit	DI282	MH067	150.263	0.013	0	0	0.1	0.1	FILLED_CIRCULAR	2.5	1.9	1	0.20%					
C145_2	Closed-Conduit	MH067	DI302	281.936	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.12%					
C146	Closed-Conduit	J68	DI036	10.618	0.012	0	0	0.1	0.1	CIRCULAR	4	0	1	-0.94%					
C147	Closed-Conduit	DI014	I169	290.843	0.014	4.9	0	0.1	0.1	CIRCULAR	2	0	1	3.73%					
C148	Closed-Conduit	J40	J69	9.067	0.012	0	0	0.1	0.1	CIRCULAR	4.5	0	1	0.00%					
C149	Closed-Conduit	DI300	MH032	24.13	0.012	0.75	0.05	0.1	0.1	CIRCULAR	1.4	0	1	7.20%					
C151	Closed-Conduit	MH032	I142	47.14	0.012	2	0	0.1	0.1	CIRCULAR	3	0	1	3.23%					
C152	Closed-Conduit	DI299	I142	67.615	0.014	1.1	0	0.1	0.1	CIRCULAR	1	0	1	3.44%					
C153	Closed-Conduit	DI297	MH032	44.732	0.014	1.45	0.1	0.1	0.1	CIRCULAR	1	0	1	7.38%					
C154	Closed-Conduit	DI298	MH033	35.832	0.012	0	0	0.1	0.1	CIRCULAR	1	0	1	0.53%					
C155_1	Closed-Conduit	MH033	J32	13.686	0.012	0.25	0	0.1	0.1	CIRCULAR	3	0	1	1.30%					
C155_2	Closed-Conduit	J32	MH011	255.051	0.012	0	0	0.1	0.1	CIRCULAR	3	0	1	1.30%					
C156_1	Closed-Conduit	MH011	MH068	9.423	0.013	0.5	0.2	0.1	0.1	CIRCULAR	3	0	1	1.20%					
C156_2	Closed-Conduit	MH068	MH012	15.065	0.014	0.4	0.1	0.1	0.1	CIRCULAR	3	0	1	0.08%					
C157	Closed-Conduit	I142	I140	288.059	0.012	0	0	0.1	0.1	CIRCULAR	3	0	1	0.83%					
C158	Closed-Conduit	DI296	I141	30.145	0.022	2.55	0	0.1	0.1	CIRCULAR	1.25	0	1	15.80%					
C159	Closed-Conduit	DI015	DI014	75.418	0.014	2.05	4.65	0.1	0.1	CIRCULAR	0.75	0	1	2.68%					
C16	Street	DI195	DI193	525.863	0.017	2.8	4.6	0.1	0.1	STREET	0	0	1	0.11%	101S				
C160	Closed-Conduit	DI294	MH012	43.679	0.014	0	0	0.1	0.1	CIRCULAR	3	0	1	5.40%					
C161	Closed-Conduit	MH012	I140	13.058	0.014	0	0	0.1	0.1	CIRCULAR	3	0	1	0.23%					
C162	Closed-Conduit	I140	I141	14.716	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	1.36%					
C163	Closed-Conduit	MH030	I141	282.987	0.012	0	0	0.1	0.1	CIRCULAR	3	0	1	-0.02%					
C164	Closed-Conduit	DI305	MH031	57.999	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	3.39%					
C165	Closed-Conduit	DI307	MH031	35.845	0.014	0.2	0	0.1	0.1	CIRCULAR	1	0	1	3.44%					
C166	Closed-Conduit	MH031	I144	60.524	0.014	1.75	0.5	0.1	0.1	CIRCULAR	1.25	0	1	2.09%					
C167	Closed-Conduit	DI308	I144	42.99	0.014	1.1	0	0.1	0.1	CIRCULAR	1	0	1	6.38%					
C168_2	Closed-Conduit	DI527	MH030	51.038	0.012	0	3	0.1	0.1	CIRCULAR	2	0	1	1.73%					
C168_3	Closed-Conduit	I144	I033	118.703	0.012	0	0	0.1	0.1	CIRCULAR	2	0	1	0.18%					
C168_4	Closed-Conduit	I033	DI527	57.694	0.012	0	0	0.1	0.1	CIRCULAR	2	0	1	0.09%					
C170	Closed-Conduit	DI017	DI014	302.476	0.014	0	0.4	0.1	0.1	CIRCULAR	2	0	1	1.90%					
C172	Closed-Conduit	DI310	MH028	45.202	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	8.87%					
C174_1	Closed-Conduit	DI528	MH012	16.738	0.013	1.5	0.5	0.1	0.1	CIRCULAR	1.5	0	1	22.15%					
C174_2	Closed-Conduit	MH004	DI528	45.184	0.013	1.5	1.2	0.1	0.1	CIRCULAR	1.5	0	1	0.24%					
C175	Closed-Conduit	MH004	MH005	5.163	0.014	0	0	0.1	0.1	CIRCULAR	4	0	1	60.02%					
C176	Closed-Conduit	DI071	I026	18.075	0.014	0.95	1.95	0.1	0.1	CIRCULAR	1.25	0	1	2.98%					
C177	Closed-Conduit	MH005	I026	133.866	0.014	1.7	0	0.1	0.1	CIRCULAR	4	0	1	0.67%					
C178	Closed-Conduit	DI069	MH005	311.654	0.014	0	0	0.1	0.1	CIRCULAR	4	0	1	0.25%					
C179	Closed-Conduit	MH003	DI069	282.164	0.014	2.75	0	0.1	0.1	FILLED_CIRCULAR	3	2.75	1	0.17%					
C18	Closed-Conduit	I060	I049	547.498	0.014	0	0	0.1	0.1	RECT_CLOSED	6	12	1	0.98%					
C180	Closed-Conduit	DI068	MH003	5.85	0.014	0.15	0	0.1	0.1	FILLED_CIRCULAR	1.25	1.15	1	92.40%					
C181	Closed-Conduit	DI016	DI017	119.273	0.014	0	0.2	0.1	0.1	CIRCULAR	1.25	0	1	2.66%					
C183_1	Closed-Conduit	MH004	MH065	312.128	0.014	1	0	0.1	0.1	CIRCULAR	1.5	0	1	0.56%					
C183_2	Closed-Conduit	MH065	MH009	30.023	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.36%					
C184_1	Closed-Conduit	MH009	I997	246.497	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.04%					
C184_2	Closed-Conduit	I997	MH003	3.762	0.013	0	2	0.1	0.1	FILLED_CIRCULAR	1.5	1.25	1	33.91%					
C185	Closed-Conduit	DI067	I997	3.671	0.013	0	0	0.1	0.1	FILLED_CIRCULAR	1.5	1.25	1	19.60%					
C186_1	Closed-Conduit	DI066	J1	27.392	0.012	1.18	0	0.1	0.1	CIRCULAR	1.5	0	1	1.37%					
C186_3	Closed-Conduit	J1	J65	18.219	0.012	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.37%					
C186_4	Closed-Conduit	J65	DI067	47.309	0.012	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.37%					
C187	Closed-Conduit	DI065	DI066	40.055	0.012	0	0.3	0.1	0.1	CIRCULAR	1	0	1	2.18%					
C188	Closed-Conduit	I023	DI066	228.918	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	1.36%					
C189	Closed-Conduit	DI064	I023	39.332	0.014	1.65	0	0.1	0.1	CIRCULAR	1	0	1	5.82%					
C190	Closed-Conduit	DI062	DI063	56.961	0.014	0	0.9	0.1	0.1	CIRCULAR	1	0	1	0.13%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C191	Closed-Conduit	DI063	I023	57.065	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	0.35%					
C193	Closed-Conduit	I175	DI016	282.491	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	1.24%					
C194	Closed-Conduit	DI334	DI335	39.723	0.012	0.4	0	0.1	0.1	CIRCULAR	1.5	0	1	1.78%					
C195	Closed-Conduit	DI336	DI337	78.541	0.014	0.6	0	0.1	0.1	CIRCULAR	2	0	1	0.36%					
C196	Closed-Conduit	DI335	DI336	103.989	0.014	0	0.2	0.1	0.1	CIRCULAR	1.75	0	1	0.12%					
C197	Closed-Conduit	DI337	OF10	72.352	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	8.88%					
C199	Closed-Conduit	DI311	DI310	41.71	0.012	1.25	0	0.1	0.1	CIRCULAR	2	0	1	3.06%					
C2	Street	DI348	DI343	254.079	0.017	0.9	13.3	0.1	0.1	STREET	0	0	1	-1.91%	JStreet				
C200_1	Closed-Conduit	DI538	MH040	61.632	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	2.68%					
C200_2	Closed-Conduit	MH040	I147	38.704	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	1.73%					
C201	Closed-Conduit	DI314	I147	9.173	0.014	1	0	0.1	0.1	CIRCULAR	1	0	1	4.76%					
C202	Closed-Conduit	I147	I146	39.837	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	0.03%					
C203	Closed-Conduit	DI313	I146	6.707	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	9.09%					
C204	Closed-Conduit	DI367	I175	315.384	0.013	0	0.75	0.1	0.1	CIRCULAR	1.25	0	1	1.12%					
C205_1	Closed-Conduit	MH027	MH041	208.223	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.25%					
C205_2	Closed-Conduit	MH041	MH028	99.489	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	6.94%					
C206	Closed-Conduit	DI535	MH027	177.123	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	0.17%					
C207	Closed-Conduit	I146	MH027	35.402	0.013	0	0	0.1	0.1	CIRCULAR	1.25	0	1	0.40%					
C208	Closed-Conduit	DI081	MH055	26.002	0.014	1.6	0	0.1	0.1	CIRCULAR	1	0	1	19.54%					
C209	Closed-Conduit	MH055	MH057	125.219	0.014	1.25	0	0.1	0.1	CIRCULAR	4	0	1	0.19%					
C21	Closed-Conduit	DI521	I180	3.889	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	32.83%					
C210	Closed-Conduit	MH028	MH055	183.041	0.014	0.8	0	0.1	0.1	CIRCULAR	4	0	1	0.13%					
C211	Closed-Conduit	DI489	I034	45.218	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.85%					
C212	Closed-Conduit	I034	MH054	177.178	0.013	0	0	0.1	0.1	CIRCULAR	1.25	0	1	2.14%					
C213	Closed-Conduit	MH054	MH053	248.374	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.02%					
C214	Closed-Conduit	DI505	MH052	138.714	0.014	0	0	0.1	0.1	CIRCULAR	0.75	0	1	3.68%					
C215	Closed-Conduit	DI030	I175	15.549	0.014	1.35	0	0.1	0.1	CIRCULAR	1.25	0	1	5.84%					
C216	Closed-Conduit	DI504	MH051	87.834	0.013	0	0	0.1	0.1	CIRCULAR	0.833	0	1	7.71%					
C217	Closed-Conduit	DI078	MH059	25.788	0.012	2.1	0	0.1	0.1	CIRCULAR	2.5	0	1	10.39%					
C218_1	Closed-Conduit	MH057	J41	103.508	0.013	0	0	0.1	0.1	CIRCULAR	4	0	1	0.03%					
C218_2	Closed-Conduit	J41	MH059	172.004	0.013	0	0	0.1	0.1	CIRCULAR	4	0	1	0.03%					
C22	Closed-Conduit	DI522	I025	11.44	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	6.14%					
C220_1	Closed-Conduit	MH051	J21	9.88	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.15%					
C220_2	Closed-Conduit	J21	MH052	72.095	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.16%					
C221	Closed-Conduit	MH052	MH053	122.922	0.014	0.5	0.5	0.1	0.1	CIRCULAR	2	0	1	-2.35%					
C222	Closed-Conduit	MH053	MH059	95.3	0.014	0.2	0	0.1	0.1	CIRCULAR	2	0	1	1.80%					
C223	Closed-Conduit	MH059	MH062	72.769	0.014	0	0	0.1	0.1	CIRCULAR	3	0	1	4.03%					
C224	Closed-Conduit	MH062	I029	128.951	0.014	0.1	0	0.1	0.1	CIRCULAR	3	0	1	0.27%					
C225	Closed-Conduit	MH061	I030	126.083	0.014	0	0	0.1	0.1	CIRCULAR	3	0	1	1.16%					
C226	Closed-Conduit	MH013	DI003	14.955	0.022	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.18%					
C227	Closed-Conduit	DI036	I193	783.523	0.013	0	0	0.1	0.1	CIRCULAR	4	0	1	0.80%					
C228	Closed-Conduit	MH062	MH061	8.948	0.014	0	0	0.1	0.1	CIRCULAR	6	0	1	-13.65%					
C23	Closed-Conduit	DI523	DI272	16.654	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.36%					
C230	Closed-Conduit	I031	MH061	8.997	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	10.51%					
C231_1	Closed-Conduit	J39	J69	95.029	0.013	0	0	0.1	0.1	CIRCULAR	2	0	2	1.10%					
C231_2	Closed-Conduit	J69	MH061	62.703	0.011	0	0	0.1	0.1	CIRCULAR	4	0	1	0.78%					
C233_1	Closed-Conduit	J19	J20	43.412	0.022	0	0	0.1	0.1	CIRCULAR	2	0	1	0.44%					
C233_2	Closed-Conduit	J20	J39	161.951	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.62%					
C234	Closed-Conduit	DI082	MH050	35.025	0.014	0.25	0	0.1	0.1	CIRCULAR	1.5	0	1	3.95%					
C235_1	Closed-Conduit	MH050	J19	171.219	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.16%					
C235_2	Closed-Conduit	J19	MH049	12.547	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.17%					
C236	Closed-Conduit	DI083	MH050	17.913	0.014	0.35	0.4	0.1	0.1	CIRCULAR	1	0	1	6.12%					
C237_1	Closed-Conduit	MH048	MH044	89.199	0.022	0	0	0.1	0.1	HORIZ_ELLIPSE	1.83	3	2	0.34%					
C237_2	Closed-Conduit	MH044	MH049	286.53	0.022	1.9	0	0.1	0.1	HORIZ_ELLIPSE	1.83	3	2	0.13%					
C238	Closed-Conduit	I075	DI036	161.659	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.13%					
C239	Closed-Conduit	DI495	I149	84.939	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.49%					
C24	Closed-Conduit	DI529	I141	10.92	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	33.16%					
C240	Closed-Conduit	I149	I150	68.147	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.38%					
C241	Closed-Conduit	DI315	I150	81.716	0.011	1.08	0	0.1	0.1	CIRCULAR	0.67	0	1	0.09%					
C242_1	Closed-Conduit	DI320	J37	11.316	0.013	0.75	0	0.1	0.1	CIRCULAR	1.5	0	1	2.37%					
C242_2	Closed-Conduit	J37	DI321	43.039	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	2.37%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C243	Closed-Conduit	DI321	I155	61.322	0.014	1.75	0.25	0.1	0.1	CIRCULAR	1.25	0	1	2.64%					
C244	Closed-Conduit	I150	I156	111.044	0.022	0	0	0.1	0.1	CIRCULAR	1	0	1	0.23%					
C245	Closed-Conduit	DI324	I156	37.451	0.012	0.25	0	0.1	0.1	CIRCULAR	1	0	1	1.42%					
C246	Closed-Conduit	I156	DI323	13.848	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.00%					
C247	Closed-Conduit	DI323	J17	257.982	0.011	0	0	0.1	0.1	CIRCULAR	1	0	1	0.58%					
C248	Closed-Conduit	I155	I157	63.162	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.08%					
C249_1	Closed-Conduit	MH001	J60	66.083	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.51%					
C249_2	Closed-Conduit	J60	J68	251.708	0.014	0	0	0.1	0.1	CIRCULAR	3	0	1	0.57%					
C25	Closed-Conduit	DI526	I033	36.342	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.17%					
C250	Closed-Conduit	DI325	I157	2.954	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	43.40%					
C251_1	Closed-Conduit	I157	DI326	158.214	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.65%					
C251_2	Closed-Conduit	DI326	I158	13.381	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.66%					
C252	Closed-Conduit	DI326	I158	13.381	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.66%					
C253	Closed-Conduit	I158	MH026	16.865	0.022	0	0.5	0.1	0.1	CIRCULAR	1.5	0	1	3.69%					
C254	Closed-Conduit	DI327	I159	13.882	0.014	0.43	0	0.1	0.1	CIRCULAR	1.25	0	1	10.48%					
C255_1	Closed-Conduit	MH026	J17	8.035	0.022	0.9	0	0.1	0.1	CIRCULAR	1.5	0	1	0.32%					
C255_3	Closed-Conduit	J17	J18	154.525	0.022	0	0	0.1	0.1	CIRCULAR	1.25	0	1	0.32%					
C255_4	Closed-Conduit	J18	MH057	434.805	0.022	0	0.1	0.1	0.1	CIRCULAR	1.25	0	1	0.32%					
C256	Closed-Conduit	DI329	I161	68.211	0.012	1.1	0	0.1	0.1	CIRCULAR	1	0	1	2.42%					
C257	Closed-Conduit	I161	DI328	111.062	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.31%					
C258	Closed-Conduit	DI328	I159	20.583	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.51%					
C259	Closed-Conduit	I159	MH026	24.947	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	-0.52%					
C26	Closed-Conduit	DI007	DI009	39.557	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.38%					
C260	Closed-Conduit	DI050	MH001	10.448	0.012	1.6	0.1	0.1	0.1	CIRCULAR	1	0	1	33.27%					
C261-	Closed-Conduit	DI331	DI330	126.379	0.014	0.25	0.5	0.1	0.1	CIRCULAR	1	0	1	0.10%					
C262	Closed-Conduit	MH023	I162	9.475	0.022	0	0	0.1	0.1	CIRCULAR	1.5	0	1	8.22%					
C263	Closed-Conduit	DI332	I162	3.353	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	231.93%					
C264	Closed-Conduit	I162	MH024	220.223	0.022	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.34%					
C265	Closed-Conduit	MH024	MH025	26.95	0.022	0	0.1	0.1	0.1	CIRCULAR	1.5	0	1	-3.09%					
C266	Closed-Conduit	MH025	MH026	40.521	0.022	0	0	0.1	0.1	CIRCULAR	1.5	0	1	-1.71%					
C267	Closed-Conduit	DI330	MH025	42.881	0.022	0.05	0	0.1	0.1	CIRCULAR	1.5	0	1	1.29%					
C268	Closed-Conduit	MH023	MH022	58.783	0.022	0.7	0.5	0.1	0.1	CIRCULAR	1.5	0	1	2.83%					
C269	Closed-Conduit	MH022	DI494	204.721	0.014	3.2	0	0.1	0.1	CIRCULAR	2	0	1	0.22%					
C27	Closed-Conduit	DI509	I041	5.348	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	8.67%					
C270	Closed-Conduit	DI494	MH026	117.423	0.014	0	0.8	0.1	0.1	CIRCULAR	1.5	0	1	0.49%					
C271_1	Closed-Conduit	MH002	J56	58.88	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.92%					
C271_3	Closed-Conduit	J56	J57	212.498	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.92%					
C271_4	Closed-Conduit	J57	MH001	20.417	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.92%					
C272_1	Closed-Conduit	MH022	J15	80.751	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.12%					
C272_2	Closed-Conduit	J15	MH051	143.803	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.12%					
C273	Closed-Conduit	DI316	I153	16.268	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.98%					
C274	Closed-Conduit	DI318	I154	15.686	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.65%					
C275	Closed-Conduit	I154	DI319	12.023	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	-3.02%					
C276	Closed-Conduit	DI317	I153	15.493	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.59%					
C277	Closed-Conduit	I153	I154	36.431	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.31%					
C278	Closed-Conduit	DI090	DI519	40.693	0.012	0.5	0	0.1	0.1	CIRCULAR	1.5	0	1	3.07%					
C279	Closed-Conduit	DI519	MH046	57.437	0.014	0.8	0	0.1	0.1	CIRCULAR	1.5	0	1	2.49%					
C28	Closed-Conduit	DI511	DI180	223.098	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.22%					
C280	Closed-Conduit	DI089	MH046	34.167	0.014	1.1	0	0.1	0.1	CIRCULAR	1	0	1	5.32%					
C281	Closed-Conduit	MH046	I040	245.909	0.014	1	0	0.1	0.1	CIRCULAR	2	0	1	0.43%					
C282	Closed-Conduit	DI070	MH002	10.051	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	18.53%					
C283	Closed-Conduit	MH046	DI091	20.979	0.014	1.1	0	0.1	0.1	CIRCULAR	1	0	1	7.30%					
C284	Closed-Conduit	I040	I039	44.8	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.00%					
C285	Closed-Conduit	DI143	I071	36.393	0.022	0	0	0.1	0.1	CIRCULAR	1.5	0	1	3.89%					
C286	Closed-Conduit	DI144	I071	11.316	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	5.55%					
C287	Closed-Conduit	I071	I039	136.335	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.07%					
C288	Closed-Conduit	I039	DI086	24.158	0.022	0	0	0.1	0.1	CIRCULAR	1.2	0	1	0.08%					
C290	Closed-Conduit	DI088	I040	59.675	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.91%					
C291	Closed-Conduit	DI091	DI092	239.4	0.013	2.1	0	0.1	0.1	CIRCULAR	1	0	1	-0.05%					
C292	Closed-Conduit	DI092	I041	35.404	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.09%					
C293	Closed-Conduit	DI080	DI076	19.342	0.012	0	0	0.1	0.1	CIRCULAR	1.25	0	1	6.55%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C294	Closed-Conduit	DI093	I041	4.154	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	8.21%					
C295	Closed-Conduit	I041	I042	70.377	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.00%					
C296	Closed-Conduit	DI095	I042	35.15	0.022	1.8	0	0.1	0.1	CIRCULAR	1.5	0	1	-1.31%					
C297	Closed-Conduit	I042	I043	119.074	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.78%					
C298	Closed-Conduit	DI096	I043	2.819	0.014	2.2	0	0.1	0.1	CIRCULAR	1.5	0	1	10.16%					
C299	Closed-Conduit	I043	I044	107.259	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.09%					
C30	Closed-Conduit	I095	I184	58.528	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	1.71%					
C300	Closed-Conduit	DI097	I044	8.059	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	13.74%					
C301	Closed-Conduit	DI098	I044	42.034	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	-2.14%					
C302	Closed-Conduit	I045	DI098	29.329	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.03%					
C303	Closed-Conduit	I044	I046	53.579	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.06%					
C304_1	Closed-Conduit	DI076	J31	18.577	0.012	0.05	0	0.1	0.1	CIRCULAR	1.25	0	1	4.33%					
C304_2	Closed-Conduit	J31	MH002	14.09	0.012	0	1.4	0.1	0.1	CIRCULAR	1.25	0	1	4.33%					
C306	Closed-Conduit	DI100	I046	53.035	0.014	1.5	0	0.1	0.1	CIRCULAR	1.5	0	1	2.22%					
C307	Closed-Conduit	I046	I047	14.261	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.14%					
C308	Closed-Conduit	DI102	DI101	75.641	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.31%					
C309	Closed-Conduit	DI101	I047	7.69	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.98%					
C31	Closed-Conduit	I184	DI513	226.333	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.09%					
C310_1	Closed-Conduit	I047	I999	101.681	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.03%					
C310_2	Closed-Conduit	I999	I048	58.13	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.84%					
C311	Closed-Conduit	DI503	I049	82.119	0.013	0	0	0.1	0.1	CIRCULAR	4	0	1	5.47%					
C312	Closed-Conduit	DI123	DI124	71.873	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	3.66%					
C313	Closed-Conduit	DI125	DI124	69.504	0.022	1	1.05	0.1	0.1	CIRCULAR	1.5	0	1	0.11%					
C314	Closed-Conduit	DI124	I045	58.844	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.06%					
C315_1	Closed-Conduit	I035	J53	144.233	0.012	0	0	0.1	0.1	CIRCULAR	2	0	1	1.80%					
C315_2	Closed-Conduit	J53	MH002	138.779	0.012	0	2.75	0.1	0.1	CIRCULAR	2	0	1	1.80%					
C316	Closed-Conduit	DI103	I707	165.106	0.014	0	0	0.1	0.1	CIRCULAR	2.5	0	1	0.00%					
C317	Closed-Conduit	DI104	DI103	41.273	0.014	0.9	0.5	0.1	0.1	CIRCULAR	2.5	0	1	0.09%					
C318	Closed-Conduit	DI105	DI104	279.893	0.014	1.25	0	0.1	0.1	CIRCULAR	2.5	0	1	0.27%					
C319	Closed-Conduit	DI106	DI105	307.904	0.014	0.5	0	0.1	0.1	CIRCULAR	2.5	0	1	0.25%					
C320	Closed-Conduit	DI107	DI106	58.9	0.014	0.2	0.1	0.1	0.1	CIRCULAR	2	0	1	0.60%					
C321	Closed-Conduit	DI111	DI110	28.75	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	0.85%					
C322	Closed-Conduit	DI110	I051	70.266	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.35%					
C323	Closed-Conduit	DI109	DI107	239.611	0.014	0.1	0	0.1	0.1	CIRCULAR	2	0	1	0.73%					
C324	Closed-Conduit	I051	DI109	90.815	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.03%					
C325	Closed-Conduit	I052	I051	232.604	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	-0.01%					
C326	Closed-Conduit	DI087	I035	2.471	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	43.10%					
C327	Closed-Conduit	DI112	I052	22.346	0.011	1	0	0.1	0.1	CIRCULAR	1	0	1	7.70%					
C328	Closed-Conduit	DI113	I052	15.667	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	6.00E-05					
C329	Closed-Conduit	DI114	DI113	152.74	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.42%					
C331	Closed-Conduit	I053	I189	65.651	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.76%					
C333	Closed-Conduit	DI117	DI115	52.314	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.21%					
C334	Closed-Conduit	I054	I053	72.278	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.14%					
C335	Closed-Conduit	DI115	I054	55.553	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.18%					
C336	Closed-Conduit	I055	I054	17.927	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.34%					
C338_1	Closed-Conduit	DI099	J24	51.995	0.012	1	0	0.1	0.1	CIRCULAR	1	0	1	2.50%					
C338_3	Closed-Conduit	J24	J29	225.552	0.012	0	0	0.1	0.1	CIRCULAR	2	0	1	0.57%					
C338_4	Closed-Conduit	J29	I035	37.108	0.012	0	0	0.1	0.1	CIRCULAR	2	0	1	0.57%					
C339	Closed-Conduit	I056	I055	48.653	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.06%					
C34	Closed-Conduit	DI201	DI514	13.359	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.65%					
C340	Closed-Conduit	DI119	I056	92.201	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.05%					
C341	Closed-Conduit	DI121	DI120	73.045	0.011	0	0.45	0.1	0.1	CIRCULAR	0.67	0	1	0.40%					
C342	Closed-Conduit	DI120	DI119	27.477	0.014	0.47	0.03	0.1	0.1	CIRCULAR	1	0	1	1.82%					
C343	Closed-Conduit	I058	I057	134.498	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.22%					
C344	Closed-Conduit	I059	I058	27.613	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.36%					
C345	Closed-Conduit	DI501	I059	165.181	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.61%					
C346	Closed-Conduit	DI126	I060	147.268	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.12%					
C347	Closed-Conduit	DI127	DI126	40.753	0.022	0.7	0.5	0.1	0.1	CIRCULAR	0.75	0	1	2.16%					
C348	Closed-Conduit	DI128	DI126	209.096	0.014	0	0	0.1	0.1	FILLED_CIRCULAR	1.5	1	1	0.08%					
C349_1	Closed-Conduit	DI094	J30	34.846	0.013	1	0	0.1	0.1	CIRCULAR	1	0	1	1.91%					
C349_2	Closed-Conduit	J30	DI087	14.118	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.91%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C35	Overland	I029	I030	14.258	0.022	0	0	0	0	RECT_OPEN	8	40	1	0.00%					
C350	Closed-Conduit	DI129	DI128	54.591	0.012	0	0.77	0.1	0.1	CIRCULAR	1.25	0	1	2.21%					
C351	Closed-Conduit	I061	DI128	39.798	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.01%					
C352	Closed-Conduit	DI142	I063	1047.828	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.07%					
C353	Closed-Conduit	I070	DI142	525.758	0.011	1.9	0.83	0.1	0.1	CIRCULAR	0.67	0	1	0.51%					
C354	Closed-Conduit	I065	I061	423.02	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.02%					
C355	Closed-Conduit	DI133	DI132	32.086	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	6.11%					
C356	Closed-Conduit	DI131	DI130	47.494	0.012	1	0	0.1	0.1	CIRCULAR	1.5	0	1	1.94%					
C357	Closed-Conduit	DI132	DI130	39.749	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.25%					
C358	Closed-Conduit	DI130	I065	288.601	0.013	1.1	1.1	0.1	0.1	CIRCULAR	1.5	0	1	0.57%					
C359	Closed-Conduit	I064	I065	153.361	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.07%					
C36	Street	I113	DI207	1965.266	0.017	0.8	0.8	0.1	0.1	STREET	0	0	1	0.37%	Northcrest				
C360_1	Closed-Conduit	MH006	I180	185.293	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.55%					
C360_2	Closed-Conduit	I180	DI087	116.036	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.63%					
C361	Closed-Conduit	DI134	I064	324.077	0.013	0	0.75	0.1	0.1	CIRCULAR	1.5	0	1	0.68%					
C362	Closed-Conduit	DI135	I064	225.928	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.44%					
C363	Closed-Conduit	I066	DI135	57.135	0.014	1.7	0	0.1	0.1	CIRCULAR	1.5	0	1	2.98%					
C364	Closed-Conduit	DI137	I066	9.434	0.013	2	1.7	0.1	0.1	CIRCULAR	1	0	1	0.87%					
C365	Closed-Conduit	DI139	I067	21.423	0.014	0.7	0	0.1	0.1	CIRCULAR	1.25	0	1	2.37%					
C366	Closed-Conduit	DI138	I067	22.426	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.38%					
C367	Closed-Conduit	I067	I066	325.589	0.013	0	1.7	0.1	0.1	CIRCULAR	1.5	0	1	0.84%					
C368	Closed-Conduit	I068	DI137	98.081	0.014	0	2	0.1	0.1	CIRCULAR	1	0	1	0.02%					
C369	Closed-Conduit	DI140	I068	10.991	0.011	0.75	0	0.1	0.1	CIRCULAR	0.75	0	1	9.84%					
C370	Closed-Conduit	I069	I068	71.248	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.38%					
C371	Closed-Conduit	I050	MH006	6.793	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	71.53%					
C372	Closed-Conduit	DI141	I069	15.809	0.011	1.75	0	0.1	0.1	CIRCULAR	0.75	0	1	6.18%					
C373	Closed-Conduit	DI515	I069	249.785	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.33%					
C374	Closed-Conduit	DI165	I085	8.035	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	13.59%					
C375	Closed-Conduit	I085	DI163	276.611	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.80%					
C376	Closed-Conduit	DI164	DI163	21.897	0.014	0	0.85	0.1	0.1	CIRCULAR	1.25	0	1	0.43%					
C377	Closed-Conduit	DI163	DI162	39.693	0.014	1.1	0.4	0.1	0.1	CIRCULAR	1	0	1	3.75%					
C378	Closed-Conduit	DI162	I084	12.777	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	3.03%					
C379	Closed-Conduit	I084	MH036	604.4	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.18%					
C38	Overland	J2	DI513	106.035	0.014	0	0	0	0	RECT_OPEN	1	50	1	-2.33%					
C380	Closed-Conduit	MH036	MH037	267.631	0.014	0.4	1.15	0.1	0.1	CIRCULAR	1.5	0	1	0.14%					
C381	Closed-Conduit	DI158	MH037	19.249	0.014	0.17	0.4	0.1	0.1	CIRCULAR	1	0	1	5.59%					
C382	Closed-Conduit	DI116	MH006	38.156	0.014	0.1	1	0.1	0.1	CIRCULAR	1	0	1	6.64%					
C383	Closed-Conduit	DI157	I082	23.548	0.014	1	0.1	0.1	0.1	CIRCULAR	1	0	1	11.55%					
C384	Closed-Conduit	MH037	I082	40.548	0.014	1	0	0.1	0.1	CIRCULAR	2	0	1	4.26%					
C385	Closed-Conduit	I082	I081	246.514	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.16%					
C386	Closed-Conduit	DI156	I081	11.465	0.014	1	0.3	0.1	0.1	CIRCULAR	1	0	1	15.64%					
C387	Closed-Conduit	I081	I080	16.119	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	6.84%					
C388	Closed-Conduit	DI155	MH038	24.242	0.014	0	0.05	0.1	0.1	CIRCULAR	1	0	1	8.15%					
C389	Closed-Conduit	I080	MH038	22.316	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	1.51%					
C39	Street	DI003	DI525	224.66	0.017	2.1	3.1	0.1	0.1	STREET	0	0	1	1.50%	2ndStreet				
C390	Closed-Conduit	DI160	DI161	61.074	0.014	0.43	0.03	0.1	0.1	CIRCULAR	1	0	1	1.64%					
C391	Closed-Conduit	DI161	I083	54.668	0.014	0.8	0.45	0.1	0.1	CIRCULAR	1	0	1	2.29%					
C392	Closed-Conduit	I083	I080	258.499	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.74%					
C393	Closed-Conduit	I062	MH006	136.486	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.44%					
C394	Closed-Conduit	MH038	I079	163.306	0.014	3	0	0.1	0.1	CIRCULAR	2	0	1	3.78%					
C395	Closed-Conduit	DI154	I079	9.273	0.012	2.2	0	0.1	0.1	CIRCULAR	2	0	1	35.96%					
C396	Closed-Conduit	I079	MH039	137.535	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	1.64%					
C397	Closed-Conduit	DI152	MH039	40.601	0.014	0	0.75	0.1	0.1	CIRCULAR	1	0	1	8.72%					
C398	Closed-Conduit	MH039	I078	285.244	0.014	3.8	0.5	0.1	0.1	CIRCULAR	2	0	1	2.47%					
C399	Closed-Conduit	DI151	I078	32.789	0.014	0.5	0	0.1	0.1	CIRCULAR	1	0	1	8.69%					
C4	Street	DI055	DI052	1093.064	0.017	0.4	3.9	0.1	0.1	STREET	0	0	1	0.15%	Street				
C40	Closed-Conduit	DI028	DI029	39.45	0.013	1.2	0	0.1	0.1	CIRCULAR	1	0	1	1.23%					
C400	Closed-Conduit	DI150	I078	9.841	0.011	0.75	0	0.1	0.1	CIRCULAR	0.5	0	1	27.54%					
C401	Closed-Conduit	I078	I077	15.568	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	9.68%					
C402	Closed-Conduit	DI149	DI148	36.34	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	3.09%					
C403	Closed-Conduit	DI148	DI147	39.689	0.014	0	0.08	0.1	0.1	CIRCULAR	1	0	1	2.70%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C404	Closed-Conduit	DI122	I062	12.785	0.014	2	0	0.1	0.1	CIRCULAR	1.25	0	1	5.46%					
C405	Closed-Conduit	DI147	I074	107.386	0.014	0.8	0	0.1	0.1	CIRCULAR	1	0	1	1.77%					
C406	Closed-Conduit	I077	I074	33.528	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	5.38%					
C407	Closed-Conduit	DI350	I166	44.077	0.012	1.25	0	0.1	0.1	CIRCULAR	1	0	1	4.18%					
C408	Closed-Conduit	DI351	I166	23.12	0.012	2.53	0.12	0.1	0.1	CIRCULAR	0.67	0	1	7.75%					
C409	Closed-Conduit	I166	I077	295.134	0.013	0	0	0.1	0.1	CIRCULAR	1.25	0	1	0.51%					
C41	Street	DI029	DI022	286.126	0.017	2.1	2.85	0.1	0.1	STREET	0	0	1	0.22%	5thStreet				
C410	Closed-Conduit	I074	I072	266.001	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.77%					
C411	Closed-Conduit	DI145	DI146	62.126	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	2.25%					
C412	Closed-Conduit	DI146	I072	165.491	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.14%					
C413	Closed-Conduit	I073	I072	9.541	0.013	0	0	0.1	0.1	CIRCULAR	2.5	0	1	6.30%					
C414	Closed-Conduit	I072	MH048	241.246	0.013	0	0	0.1	0.1	HORIZ_ELLIPSE	1.83	3	2	1.27%					
C415	Closed-Conduit	DI136	I062	26.791	0.014	2.1	0	0.1	0.1	CIRCULAR	1	0	1	2.98%					
C416	Closed-Conduit	DI086	DI085	79.003	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	0.08%					
C417	Closed-Conduit	DI085	DI084	40.341	0.013	0.5	0	0.1	0.1	CIRCULAR	1	0	1	1.08%					
C418	Closed-Conduit	DI085	MH044	177.398	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.78%					
C419	Closed-Conduit	I036	MH048	65.356	0.013	0.2	0	0.1	0.1	CIRCULAR	1	0	1	1.92%					
C42	Closed-Conduit	MH070	DI033	246.292	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.34%					
C420_1	Closed-Conduit	MH045	MH058	253.762	0.014	0	0	0.1	0.1	CIRCULAR	3	0	2	0.55%					
C420_2	Closed-Conduit	MH058	J40	23.91	0.014	0	0	0.1	0.1	CIRCULAR	3	0	2	2.54%					
C420_4	Closed-Conduit	J40	MH062	62.896	0.011	0	0.1	0.1	0.1	CIRCULAR	4	0	1	2.54%					
C421	Closed-Conduit	I028	MH062	213.223	0.022	0	0	0.1	0.1	CIRCULAR	3	0	1	1.31%					
C422	Closed-Conduit	DI075	I028	19.608	0.014	0.9	0	0.1	0.1	CIRCULAR	1	0	1	12.63%					
C423_1	Closed-Conduit	I027	J43	131.328	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.01%					
C423_2	Closed-Conduit	J43	J46	87.236	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.01%					
C423_4	Closed-Conduit	J45	I028	71.787	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.01%					
C423_5	Closed-Conduit	J46	J45	74.29	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.01%					
C424	Closed-Conduit	DI074	I027	17.919	0.014	1.2	0	0.1	0.1	CIRCULAR	1	0	1	17.73%					
C425_2	Closed-Conduit	J47	MH064	272.842	0.022	0	0	0.1	0.1	FILLED_CIRCULAR	3	0.25	1	0.54%					
C425_3	Closed-Conduit	MH063	I027	42.614	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.12%					
C425_4	Closed-Conduit	MH064	MH063	16.387	0.022	2.5	2	0.1	0.1	FILLED_CIRCULAR	3	0.25	1	1.04%					
C426	Closed-Conduit	MH007	I062	146.935	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.27%					
C427_1	Closed-Conduit	DI072	J48	18.635	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.92%					
C427_2	Closed-Conduit	DI073	J48	21.97	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	-1.88%					
C428_1	Closed-Conduit	MH066	J47	325.913	0.022	1.5	0	0.1	0.1	FILLED_CIRCULAR	3	0.25	1	0.18%					
C428_2	Closed-Conduit	I026	MH066	127.986	0.022	0	0	0.1	0.1	FILLED_CIRCULAR	3	0.25	1	0.49%					
C429	Closed-Conduit	DI338	I164	37.454	0.014	2.25	0	0.1	0.1	CIRCULAR	1	0	1	11.76%					
C43	Closed-Conduit	DI301	J8	33.302	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	5.54%					
C430	Closed-Conduit	DI339	I164	15.827	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.82%					
C431	Closed-Conduit	I164	MH021	7.907	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.15%					
C432	Closed-Conduit	DI355	DI354	19.178	0.014	0.33	1	0.1	0.1	CIRCULAR	0.25	0	1	13.09%					
C433	Closed-Conduit	DI354	I167	37.556	0.014	0.12	0.45	0.1	0.1	CIRCULAR	1.25	0	1	3.96%					
C434	Closed-Conduit	DI352	I167	5.411	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	12.40%					
C435	Closed-Conduit	I167	I164	301.163	0.014	3.75	0	0.1	0.1	CIRCULAR	1.5	0	1	2.74%					
C436	Closed-Conduit	MH021	MH020	254.895	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.65%					
C437	Closed-Conduit	I076	MH007	12.845	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.57%					
C438	Closed-Conduit	DI341	MH020	8.296	0.014	1.5	0	0.1	0.1	CIRCULAR	1	0	1	24.62%					
C439	Closed-Conduit	DI342	MH020	33.404	0.014	1.23	0	0.1	0.1	CIRCULAR	0.67	0	1	6.50%					
C44	Street	DI302	DI300	318.924	0.017	4.1	3.6	0.1	0.1	STREET	0	0	1	1.03%	FStreet				
C440	Closed-Conduit	DI340	MH020	29.091	0.014	0	0	0.1	0.1	CIRCULAR	1.6	0	1	4.79%					
C441	Closed-Conduit	MH020	I165	64.54	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.02%					
C442	Closed-Conduit	DI343	I165	10.166	0.014	1.65	0	0.1	0.1	CIRCULAR	1.25	0	1	12.81%					
C443	Closed-Conduit	DI345	I165	30.413	0.014	0.4	0	0.1	0.1	CIRCULAR	1	0	1	4.10%					
C444	Closed-Conduit	I165	I073	267.599	0.013	0	0	0.1	0.1	CIRCULAR	2.5	0	1	0.02%					
C445	Closed-Conduit	DI346	DI347	27.225	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.65%					
C446	Closed-Conduit	DI349	DI348	22.351	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.07%					
C447	Closed-Conduit	DI357	MH019	39.073	0.012	1.8	0	0.1	0.1	CIRCULAR	1	0	1	7.18%					
C449	Closed-Conduit	DI153	I076	29.554	0.014	0.45	0	0.1	0.1	CIRCULAR	1.5	0	1	3.23%					
C45	Closed-Conduit	DI306	I143	11.334	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	10.29%					
C450	Closed-Conduit	DI358	MH019	30.481	0.014	1.45	0	0.1	0.1	CIRCULAR	1	0	1	5.33%					
C451	Closed-Conduit	DI356	MH019	13.07	0.014	1.25	0	0.1	0.1	CIRCULAR	1	0	1	12.87%					

Base Conditions Conduit Summary

Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C452	Closed-Conduit	MH019	I167	292.042	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	2.44%					
C453	Closed-Conduit	DI175	DI174	69.925	0.012	1.5	0	0.1	0.1	CIRCULAR	1.25	0	1	2.24%					
C454	Closed-Conduit	DI174	DI173	510.054	0.013	0	0	0.1	0.1	CIRCULAR	1.25	0	1	0.75%					
C455	Closed-Conduit	DI173	I091	43.228	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.80%					
C456	Closed-Conduit	I091	I090	17.02	0.014	1.1	0	0.1	0.1	CIRCULAR	1.5	0	1	8.85%					
C457	Closed-Conduit	DI172	I091	2.75	0.014	1.1	1.1	0.1	0.1	CIRCULAR	1.5	0	1	27.49%					
C458	Closed-Conduit	DI171	I088	12.724	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	20.88%					
C459	Closed-Conduit	I090	I088	40.329	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.74%					
C46	Closed-Conduit	I160	I151	21.558	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.32%					
C460_1	Closed-Conduit	MH008	I025	234.378	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.08%					
C460_2	Closed-Conduit	I025	I076	25.814	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.55%					
C461	Closed-Conduit	DI170	I090	20.77	0.012	1.5	0.5	0.1	0.1	CIRCULAR	1.2	0	1	12.70%					
C462_1	Closed-Conduit	I088	DI520	23.798	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.20%					
C462_2	Closed-Conduit	DI520	DI169	221.26	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	5.38%					
C463	Closed-Conduit	DI168	DI169	36.08	0.014	0.1	0	0.1	0.1	CIRCULAR	1	0	1	2.09%					
C464	Closed-Conduit	DI169	I087	267.567	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	3.57%					
C465	Closed-Conduit	DI167	DI166	45.034	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.16%					
C466	Closed-Conduit	DI166	I086	88.983	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	6.81%					
C467	Closed-Conduit	I092	I093	187.227	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	-1.60%					
C468	Closed-Conduit	DI177	DI176	95.544	0.011	0	0	0.1	0.1	CIRCULAR	0.5	0	1	2.88%					
C469	Closed-Conduit	I093	DI176	80.044	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	0.63%					
C47	Closed-Conduit	I151	I143	305.688	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.31%					
C470	Closed-Conduit	DI176	I002	139.464	0.014	0.25	0.25	0.1	0.1	CIRCULAR	1	0	1	3.95%					
C471	Closed-Conduit	DI159	MH008	12.107	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	4.95%					
C472	Closed-Conduit	DI182	I002	75.992	0.022	0	0.35	0.1	0.1	CIRCULAR	1.5	0	1	8.42%					
C473	Closed-Conduit	DI181	DI182	54.05	0.014	0	0.05	0.1	0.1	CIRCULAR	1.5	0	1	1.31%					
C474	Closed-Conduit	DI180	DI179	120.681	0.014	0.1	0.4	0.1	0.1	CIRCULAR	1.5	0	1	0.32%					
C475	Closed-Conduit	DI179	DI176	161.281	0.014	1.5	0	0.1	0.1	CIRCULAR	1.5	0	1	1.86%					
C476	Closed-Conduit	I094	I095	152.541	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.33%					
C478	Closed-Conduit	I096	DI183	273.777	0.014	0.15	0	0.1	0.1	CIRCULAR	3	0	1	-0.20%					
C479	Closed-Conduit	DI184	DI186	266.755	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.56%					
C48	Closed-Conduit	DI187	I096	6.807	0.013	1.65	1.65	0.1	0.1	CIRCULAR	1.5	0	1	0.00%					
C480	Closed-Conduit	DI186	I096	44.866	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	3.81%					
C481	Closed-Conduit	DI188	I097	4.403	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	22.05%					
C482	Closed-Conduit	I089	MH008	34.752	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.90%					
C483	Closed-Conduit	I097	I096	91.412	0.014	0	0	0.1	0.1	CIRCULAR	3	0	1	3.29%					
C484	Closed-Conduit	I098	I097	213.305	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.75%					
C485	Closed-Conduit	DI189	I098	58.446	0.014	2.25	0	0.1	0.1	CIRCULAR	2.5	0	1	4.14%					
C486	Closed-Conduit	DI191	DI189	223.569	0.014	0.05	0	0.1	0.1	CIRCULAR	2	0	1	1.15%					
C487	Closed-Conduit	I099	DI190	9.92	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.32%					
C488	Closed-Conduit	DI374	I099	311.469	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.97%					
C489	Closed-Conduit	DI193	DI191	130.13	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	0.74%					
C49	Closed-Conduit	DI183	I094	160.4	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.74%					
C490	Closed-Conduit	DI194	DI193	148.512	0.014	2.05	0.45	0.1	0.1	CIRCULAR	2.75	0	1	2.37%					
C491	Closed-Conduit	DI196	DI195	229.209	0.013	1.5	0.4	0.1	0.1	CIRCULAR	1.5	0	1	0.47%					
C492	Closed-Conduit	DI197	DI196	99.188	0.013	0.1	0	0.1	0.1	CIRCULAR	1.5	0	1	0.70%					
C493	Closed-Conduit	DI178	I089	15.577	0.014	1.8	0	0.1	0.1	CIRCULAR	1	0	1	10.44%					
C494	Closed-Conduit	DI198	DI197	56.367	0.014	0.25	0	0.1	0.1	CIRCULAR	1.5	0	1	0.41%					
C495	Closed-Conduit	DI199	DI198	97.875	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.15%					
C496	Closed-Conduit	I100	DI199	113.963	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.16%					
C497	Closed-Conduit	DI202	DI201	102.006	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.25%					
C498	Closed-Conduit	DI203	DI202	37.185	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.54%					
C499	Closed-Conduit	DI204	DI203	263.017	0.014	0.4	0	0.1	0.1	CIRCULAR	1.5	0	1	1.24%					
C500	Closed-Conduit	DI205	DI204	175.663	0.014	0.77	0.17	0.1	0.1	CIRCULAR	1.5	0	1	0.93%					
C501	Closed-Conduit	DI206	DI205	61.447	0.014	0	0.75	0.1	0.1	CIRCULAR	1.25	0	1	2.58%					
C502	Closed-Conduit	DI207	DI206	113.079	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	1.55%					
C503	Closed-Conduit	DI214	DI213	81.507	0.012	1.5	0.5	0.1	0.1	CIRCULAR	1.5	0	1	2.72%					
C504	Closed-Conduit	MH035	I089	304.52	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.34%					
C505_1	Closed-Conduit	DI213	DI518	494.982	0.013	0	1	0.1	0.1	CIRCULAR	1	0	1	0.17%					
C505_2	Closed-Conduit	DI518	DI215	186.533	0.013	1	0	0.1	0.1	CIRCULAR	1	0	1	0.10%					
C506	Closed-Conduit	DI215	I102	79.766	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.71%					

Base Conditions Conduit Summary

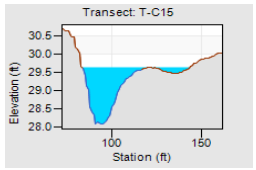
Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C508	Closed-Conduit	DI217	DI216	82.465	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	3.91%					
C509	Closed-Conduit	DI216	I102	230.035	0.014	2.1	0	0.1	0.1	CIRCULAR	1.5	0	1	1.00%					
C510	Closed-Conduit	DI500	DI499	366.6	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.32%					
C511	Closed-Conduit	DI499	DI498	38.771	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.22%					
C512	Closed-Conduit	DI498	DI228	313.961	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.73%					
C513	Closed-Conduit	DI228	DI229	41.674	0.012	0.6	0.5	0.1	0.1	CIRCULAR	1.5	0	1	0.71%					
C514	Closed-Conduit	DI229	I107	213.752	0.014	0.12	0	0.1	0.1	CIRCULAR	2	0	1	0.46%					
C515	Closed-Conduit	DI185	MH035	13.763	0.014	1	0	0.1	0.1	CIRCULAR	1.5	0	1	9.15%					
C516	Closed-Conduit	DI230	I107	12.52	0.013	2.17	0	0.1	0.1	CIRCULAR	2.5	0	1	1.76%					
C517	Closed-Conduit	DI231	I108	16.088	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	9.76%					
C518	Closed-Conduit	I107	I108	55.491	0.014	0	0	0.1	0.1	CIRCULAR	2.5	0	1	7.01%					
C519	Closed-Conduit	I108	I109	256.982	0.014	0	0	0.1	0.1	CIRCULAR	2.5	0	1	1.17%					
C520	Closed-Conduit	DI232	I109	9.667	0.012	1.25	0	0.1	0.1	CIRCULAR	1.5	0	1	87.90%					
C521	Closed-Conduit	I109	I110	453.491	0.013	0	0	0.1	0.1	CIRCULAR	2.5	0	1	1.58%					
C522	Closed-Conduit	DI226	I105	107.987	0.014	4.2	0	0.1	0.1	CIRCULAR	2	0	1	6.58%					
C523	Closed-Conduit	DI225	DI226	39.681	0.014	0.2	0	0.1	0.1	CIRCULAR	2	0	1	1.05%					
C524	Closed-Conduit	DI223	DI225	260.44	0.014	0.6	0	0.1	0.1	CIRCULAR	2	0	1	1.20%					
C525	Closed-Conduit	DI224	DI223	39.472	0.014	0.85	0	0.1	0.1	CIRCULAR	1.5	0	1	3.87%					
C526	Closed-Conduit	DI200	MH035	47.6	0.014	3.6	0	0.1	0.1	CIRCULAR	1	0	1	2.83%					
C527	Closed-Conduit	DI222	DI223	349.25	0.014	1.15	0	0.1	0.1	CIRCULAR	1.25	0	1	0.92%					
C528	Closed-Conduit	DI221	DI222	89.396	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	3.92%					
C529	Closed-Conduit	DI208	I101	96.141	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	3.09%					
C530	Closed-Conduit	DI236	I112	346.329	0.014	0	5.2	0.1	0.1	CIRCULAR	1.5	0	1	0.06%					
C531	Closed-Conduit	DI235	DI236	26.562	0.014	0	0.27	0.1	0.1	CIRCULAR	1.5	0	1	11.08%					
C532	Closed-Conduit	DI234	DI235	63.346	0.014	0	0.15	0.1	0.1	CIRCULAR	1.5	0	1	1.02%					
C533	Closed-Conduit	I111	DI234	537.472	0.014	0	0	0.1	0.1	CIRCULAR	1.25	0	1	0.45%					
C535	Closed-Conduit	I115	I114	46.31	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.67%					
C537	Closed-Conduit	MH010	MH035	301.176	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.66%					
C539	Closed-Conduit	DI237	DI238	41.663	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	8.15%					
C540	Closed-Conduit	DI238	I116	194.174	0.014	2.1	0	0.1	0.1	CIRCULAR	1.5	0	1	2.87%					
C541	Closed-Conduit	I117	DI238	320.929	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	9.00E-05					
C542	Closed-Conduit	I118	I117	260.059	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.19%					
C544	Closed-Conduit	DI240	DI239	40.241	0.014	0.15	0	0.1	0.1	CIRCULAR	1	0	1	0.27%					
C545	Closed-Conduit	DI239	I118	68.779	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	6.80%					
C546	Closed-Conduit	DI536	I118	63.343	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	8.26%					
C547	Closed-Conduit	DI241	DI242	92.78	0.014	0.7	0	0.1	0.1	CIRCULAR	1.5	0	1	1.32%					
C548	Closed-Conduit	I172	I191	87.318	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.26%					
C549	Closed-Conduit	DI242	DI243	106.14	0.014	0	0.15	0.1	0.1	CIRCULAR	2	0	1	0.28%					
C550	Closed-Conduit	DI243	DI245	104.718	0.014	0.75	0	0.1	0.1	CIRCULAR	2	0	1	0.98%					
C551	Closed-Conduit	DI245	DI246	77.129	0.014	0.1	0	0.1	0.1	CIRCULAR	2.75	0	1	0.36%					
C552	Closed-Conduit	DI244	DI243	51.765	0.014	0	0.4	0.1	0.1	CIRCULAR	1.25	0	1	1.15%					
C553	Closed-Conduit	DI246	I122	195.49	0.014	0.1	0.1	0.1	0.1	CIRCULAR	2.25	0	1	0.65%					
C554	Closed-Conduit	DI249	DI247	39.445	0.014	0	0.8	0.1	0.1	CIRCULAR	1	0	1	1.12%					
C555	Closed-Conduit	I122	DI247	4.65	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.11%					
C556	Closed-Conduit	DI247	I123	91.645	0.014	0.7	0	0.1	0.1	CIRCULAR	2.5	0	1	1.31%					
C557	Closed-Conduit	I174	I173	163.014	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.31%					
C558	Closed-Conduit	DI021	DI020	39.368	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.63%					
C559	Closed-Conduit	I171	I172	75.413	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	3.70%					
C560	Closed-Conduit	DI024	I171	46.515	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	4.96%					
C561	Closed-Conduit	I173	I171	284.503	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.43%					
C562	Closed-Conduit	DI001	I174	24.039	0.012	0.8	0	0.1	0.1	CIRCULAR	1.5	0	1	5.62%					
C563	Closed-Conduit	DI002	I174	17.436	0.014	0.9	0.2	0.1	0.1	CIRCULAR	1	0	1	3.43%					
C564	Closed-Conduit	I176	I173	30.042	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	5.50%					
C565	Closed-Conduit	DI025	I176	7.778	0.014	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.85%					
C566	Closed-Conduit	DI026	I176	34.921	0.014	1	0	0.1	0.1	CIRCULAR	1.5	0	1	9.49%					
C568	Closed-Conduit	DI027	DI028	26.25	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	7.39%					
C569	Closed-Conduit	DI020	I075	68.93	0.013	1.5	0	0.1	0.1	CIRCULAR	1	0	1	0.53%					
C57	Closed-Conduit	DI003	DI533	111.003	0.013	0	0	0.1	0.1	FILLED_CIRCULAR	2	1.99	1	0.88%					
C572_1	Closed-Conduit	DI022	DI532	40.73	0.013	0	0	0.1	0.1	FILLED_CIRCULAR	1.5	1.25	1	4.49%					
C572_2	Closed-Conduit	DI532	DI023	48.498	0.013	0	0	0.1	0.1	FILLED_CIRCULAR	1.5	1.25	1	1.27%					
C573	Closed-Conduit	DI023	OF8	74.548	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	22.08%					

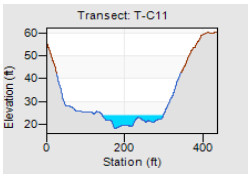
Base Conditions Conduit Summary

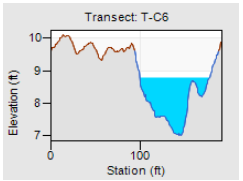
Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C575_1	Closed-Conduit	I181	OF6	111.001	0.013	0	0	0.1	0.1	CIRCULAR	4	0	1	12.94%					
C576	Closed-Conduit	DI369	I181	14.617	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	109.60%					
C577	Closed-Conduit	I179	I181	37.803	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	18.16%					
C578	Closed-Conduit	DI368	I179	20.919	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	23.56%					
C579	Closed-Conduit	MH017	I179	16.31	0.013	0	0	0.1	0.1	CIRCULAR	2.5	0	1	6.54%					
C58	Closed-Conduit	DI533	J107	89.414	0.013	0	0	0.1	0.1	FILLED_CIRCULAR	2	1.99	1	3.06%					
C580	Closed-Conduit	I038	I075	87.015	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.22%					
C581	Closed-Conduit	I178	MH017	70.858	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	2.73%					
C582	Closed-Conduit	DI366	I178	15.931	0.014	1.1	0	0.1	0.1	CIRCULAR	1	0	1	18.59%					
C583	Closed-Conduit	I177	I178	239.068	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.63%					
C584	Closed-Conduit	DI365	I177	26.259	0.014	0.05	0.8	0.1	0.1	CIRCULAR	0.5	0	1	7.91%					
C585	Closed-Conduit	MH018	I177	39.437	0.012	0	0	0.1	0.1	CIRCULAR	0.75	0	1	1.48%					
C586	Closed-Conduit	DI364	MH018	13.735	0.012	0	0	0.1	0.1	CIRCULAR	0.75	0	1	10.08%					
C587	Closed-Conduit	DI490	MH018	42.726	0.014	0	0	0.1	0.1	CIRCULAR	0.75	0	1	5.10%					
C588	Closed-Conduit	DI370	I182	7.956	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	32.91%					
C589	Closed-Conduit	I182	MH017	238.918	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	2.26%					
C59	Closed-Conduit	J107	OF7	58.398	0.013	0	0	0.1	0.1	FILLED_CIRCULAR	2	1.99	1	1.25%					
C590	Closed-Conduit	DI371	MH016	47.898	0.012	0	0.85	0.1	0.1	CIRCULAR	1.25	0	1	4.20%					
C591	Closed-Conduit	MH015	I038	17.619	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	2.17%					
C592	Closed-Conduit	MH016	I182	46.668	0.014	2.7	0	0.1	0.1	CIRCULAR	2.5	0	1	2.82%					
C593	Closed-Conduit	DI372	MH016	11.508	0.014	0.5	2.7	0.1	0.1	CIRCULAR	1.5	0	1	1.60%					
C594	Closed-Conduit	DI031	I004	20.412	0.014	0.5	0	0.1	0.1	CIRCULAR	1	0	1	3.80%					
C595	Closed-Conduit	DI373	I005	9.875	0.014	0.2	0	0.1	0.1	CIRCULAR	1	0	1	7.25%					
C596	Closed-Conduit	I005	I004	45.95	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	0.42%					
C597	Closed-Conduit	I004	DI372	277.929	0.014	0	1.5	0.1	0.1	CIRCULAR	1	0	1	1.06%					
C598	Closed-Conduit	DI041	DI042	40.005	0.014	0.2	0	0.1	0.1	CIRCULAR	4	0	1	0.92%					
C599_2	Closed-Conduit	DI042	I001	201.498	0.013	0	0	0.1	0.1	CIRCULAR	4	0	1	8.11%					
C599_3	Closed-Conduit	I001	I192	84.417	0.013	0	0	0.1	0.1	RECT_OPEN	4	4	1	6.53%					
C60	Closed-Conduit	J61	J62	26.15	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	-38.44%					
C60_2	Closed-Conduit	J62	MH012	373.507	0.011	0	0	0.1	0.1	CIRCULAR	3	0	1	0.52%					
C60_3	Closed-Conduit	J1	J64	83.299	0.011	0	0	0.1	0.1	CIRCULAR	3.5	0	1	0.52%					
C60_4	Closed-Conduit	J64	J62	131.044	0.011	0	0	0.1	0.1	CIRCULAR	3.5	0	1	0.52%					
C600	Closed-Conduit	DI039	DI040	40.234	0.014	0.85	0	0.1	0.1	FILLED_CIRCULAR	3	1	1	4.31%					
C601	Closed-Conduit	DI040	DI041	210.825	0.013	0.4	0	0.1	0.1	CIRCULAR	3.5	0	1	0.90%					
C602	Closed-Conduit	DI005	MH014	239.216	0.012	1.8	0	0.1	0.1	CIRCULAR	1.5	0	1	2.75%					
C61	Closed-Conduit	J66	J67	19.173	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	3.61%					
C61_1	Closed-Conduit	DI036	J67	244.816	0.011	0	0	0.1	0.1	CIRCULAR	3.5	0	1	-0.21%					
C61_2	Closed-Conduit	J67	J1	93.345	0.011	0	0	0.1	0.1	CIRCULAR	3.5	0	1	-0.21%					
C62	Closed-Conduit	J28	J27	21.2	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	2.97%					
C62_1	Closed-Conduit	DI302	J28	15.247	0.011	0	0	0.1	0.1	CIRCULAR	3	0	1	1.30%					
C62_2	Closed-Conduit	J28	MH032	279.077	0.011	0	0	0.1	0.1	CIRCULAR	2	0	2	1.30%					
C63	Closed-Conduit	I136	MH067	93.248	0.011	0	0	0.1	0.1	CIRCULAR	1.5	0	1	-1.61%					
C630	Street	DI319	DI320	250.525	0.017	0.2	2.6	0.1	0.1	STREET	0	0	1	1.64%	3rdStreet				
C64	Closed-Conduit	J3	J4	187.591	0.014	0	0	0.1	0.1	CIRCULAR	1	0	1	0.66%					
C65	Closed-Conduit	J4	J5	108.194	0.014	0	0	0.1	0.1	CIRCULAR	0.83	0	1	1.00%					
C653	Closed-Conduit	I048	DI503	165.758	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.35%					
C66	Closed-Conduit	J5	DI016	499.385	0.014	0	0	0.1	0.1	CIRCULAR	2	0	1	1.06%					
C67	Closed-Conduit	DI277	J6	172.388	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.31%					
C68	Closed-Conduit	J6	J7	176.086	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.57%					
C69	Closed-Conduit	J7	J8	278.021	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	0.36%					
C7	Street	DI190	DI181	738.784	0.017	0.8	2.6	0.1	0.1	STREET	0	0	1	0.95%	101N				
C70	Closed-Conduit	J30	J31	286.455	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	2.47%					
C70_1	Closed-Conduit	J8	J27	16.782	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	1.07%					
C70_2	Closed-Conduit	J27	MH032	281.306	0.013	0	0	0.1	0.1	CIRCULAR	3	0	1	1.07%					
C71	Closed-Conduit	MH067	J7	13.721	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	0.00%					
C72	Closed-Conduit	I138	DI289	35.112	0.014	0	0	0.1	0.1	CIRCULAR	0.75	0	1	-6.76%					
C73_1	Closed-Conduit	J13	MH049	13.942	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	-3.70%					
C73_2	Closed-Conduit	MH051	J13	24.326	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	-3.69%					
C74_1	Closed-Conduit	MH044	MH023	37.603	0.013	0	0	0.1	0.1	CIRCULAR	1.25	0	1	-4.89%					
C75	Closed-Conduit	J9	MH023	210.178	0.013	0	0	0.1	0.1	CIRCULAR	1.33	0	1	0.89%					
C76	Closed-Conduit	J10	J11	33.71	0.013	0	0	0.1	0.1	CIRCULAR	2.5	0	1	0.30%					

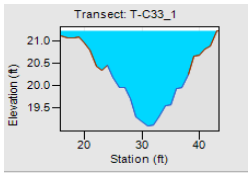
Base Conditions Conduit Summary

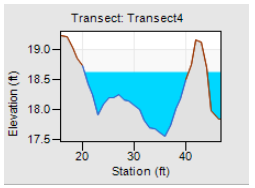
Name	Tag	Inlet Node	Outlet Node	Length (ft)	Roughness	Inlet Offset (ft)	Outlet Offset (ft)	Entry Loss Coeff.	Exit Loss Coeff.	Cross-Section	Geom1 (ft)	Geom2 (ft)	Barrels	Slope (ft/ft)	Street	Transect	Left Bank Roughness	Right Bank Roughness	Channel Roughness
C77	Closed-Conduit	J11	I039	99.359	0.013	0	0	0.1	0.1	CIRCULAR	2.5	0	1	0.40%					
C78	Closed-Conduit	J16	DI494	63.706	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	0.38%					
C79	Closed-Conduit	MH049	MH045	23.368	0.013	0	0	0.1	0.1	CIRCULAR	3	0	2	0.93%					
C8	Closed-Conduit	DI530	I022	15.849	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	27.37%					
C80	Closed-Conduit	MH047	MH045	5.69	0.013	0	0	0.1	0.1	CIRCULAR	5	0	1	-4.29%					
C81	Closed-Conduit	DI287	DI303	247.856	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.51%					
C82	Closed-Conduit	J22	J23	44.217	0.013	0	0	0.1	0.1	CIRCULAR	1.25	0	1	2.08%					
C83	Closed-Conduit	J25	J26	6.962	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.95%					
C83_1	Closed-Conduit	MH007	J26	117.924	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.88%					
C83_2	Closed-Conduit	J26	J24	173.942	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	1.36%					
C84	Closed-Conduit	I142	J32	14.244	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	-3.32%					
C85	Closed-Conduit	MH030	J34	215.857	0.013	0	0	0.1	0.1	CIRCULAR	3	0	2	0.07%					
C86	Closed-Conduit	J34	MH029	52.573	0.013	0	0	0.1	0.1	CIRCULAR	3	0	2	0.29%					
C87	Closed-Conduit	MH029	J36	44.695	0.013	0	0	0.1	0.1	CIRCULAR	4	0	1	0.34%					
C88	Closed-Conduit	J36	MH028	260.754	0.013	0	0	0.1	0.1	CIRCULAR	4	0	1	0.39%					
C89	Closed-Conduit	DI495	MH040	111.805	0.013	0	0	0.1	0.1	CIRCULAR	1.25	0	1	-1.25%					
C89_1	Closed-Conduit	DI077	J38	52.945	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	1.25%					
C89_2	Closed-Conduit	DI079	J38	29.456	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	7.90%					
C89_3	Closed-Conduit	J38	J69	177.256	0.013	0	0	0.1	0.1	CIRCULAR	1.5	0	1	1.16%					
C89_4	Closed-Conduit	MH059	J40	33.793	0.013	0	0	0.1	0.1	CIRCULAR	4.5	0	1	3.65%					
C90	Closed-Conduit	J42	J41	29.962	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	5.91%					
C91	Closed-Conduit	DI075	J41	52.846	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	2.60%					
C92	Closed-Conduit	MH028	MH063	65.893	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	-2.21%					
C92_1	Closed-Conduit	DI081	J44	62.303	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	2.65%					
C92_2	Closed-Conduit	J44	J43	34.258	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	2.65%					
C93	Closed-Conduit	J48	J47	11.545	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	0.94%					
C94	Closed-Conduit	J47	MH029	61.436	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	2.35%					
C95	Closed-Conduit	J33	J34	7.498	0.013	0	0	0.1	0.1	CIRCULAR	2	0	1	34.61%					
C96	Closed-Conduit	DI028	DI025	301.292	0.022	0	0	0.1	0.1	CIRCULAR	1	0	1	1.54%					
C97	Closed-Conduit	J52	J50	57.568	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	5.22%					
C98	Closed-Conduit	J49	J50	25.253	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	11.97%					
C99	Closed-Conduit	J51	J50	46.987	0.013	0	0	0.1	0.1	CIRCULAR	1	0	1	8.54%					

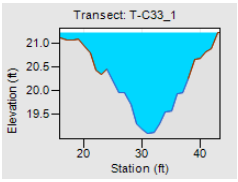

Transect: T-C15
Elevation (ft)
Station (ft)

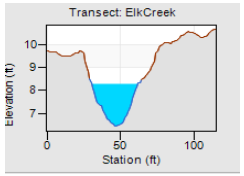

Transect: T-C11
Elevation (ft)
Station (ft)

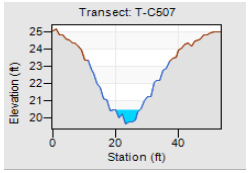

Transect: T-C6
Elevation (ft)
Station (ft)

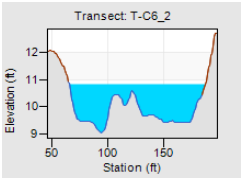

Transect: T-C33_1
Elevation (ft)
Station (ft)

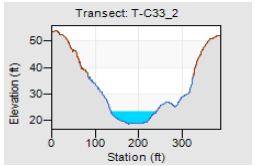

Transect: Transect4
Elevation (ft)
Station (ft)

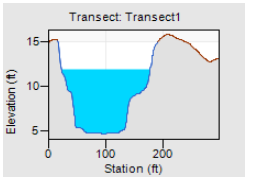

Transect: T-C33_1
Elevation (ft)
Station (ft)

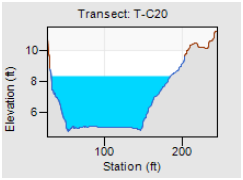

Transect: ElkCreek
Elevation (ft)
Station (ft)

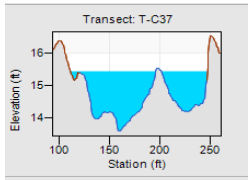

Transect: T-C507
Elevation (ft)
Station (ft)

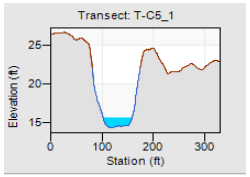

Transect: T-C6_2
Elevation (ft)
Station (ft)

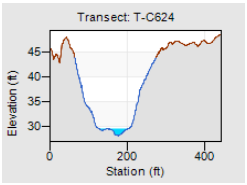

Transect: T-C33_2
Elevation (ft)
Station (ft)

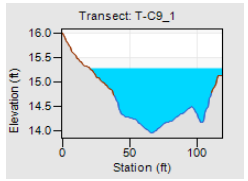

Transect: Transect1
Elevation (ft)
Station (ft)

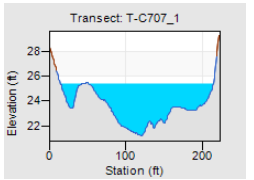

Transect: T-C20
Elevation (ft)
Station (ft)

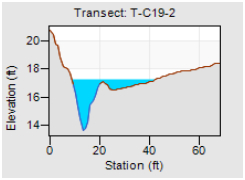

Transect: T-C37
Elevation (ft)
Station (ft)

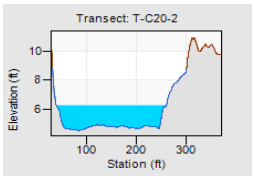

Transect: T-C5_1
Elevation (ft)
Station (ft)

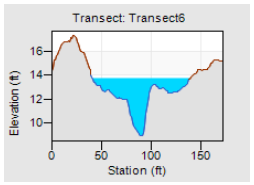

Transect: T-C624
Elevation (ft)
Station (ft)

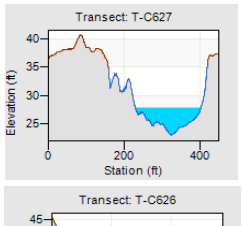

Transect: T-C9_1
Elevation (ft)
Station (ft)

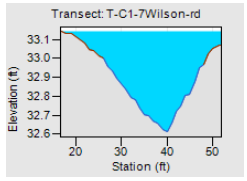

Transect: T-C707_1
Elevation (ft)
Station (ft)

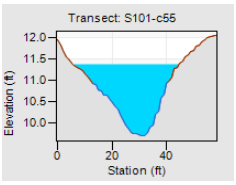

Transect: T-C19-2
Elevation (ft)
Station (ft)

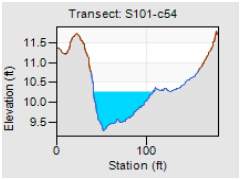

Transect: T-C20-2
Elevation (ft)
Station (ft)

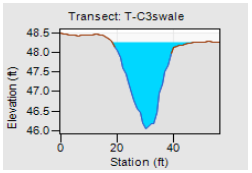

Transect: Transect6
Elevation (ft)
Station (ft)

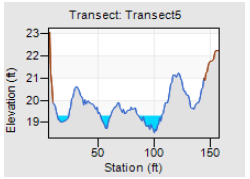

Transect: T-C627
Elevation (ft)
Station (ft)

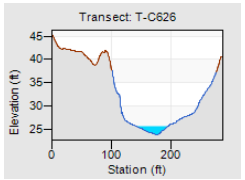

Transect: T-C1-7Wilson-rd
Elevation (ft)
Station (ft)

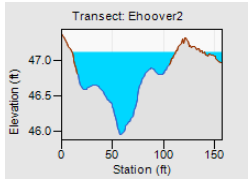

Transect: S101-c55
Elevation (ft)
Station (ft)

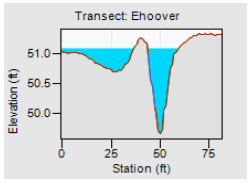

Transect: S101-c54
Elevation (ft)
Station (ft)


Transect: T-C3swale
Elevation (ft)
Station (ft)


Transect: Transect5
Elevation (ft)
Station (ft)


Transect: T-C626
Elevation (ft)
Station (ft)


Transect: Ehoover2
Elevation (ft)
Station (ft)


Transect: Ehoover
Elevation (ft)
Station (ft)

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI001	DI	27.048	29.348	2.3	DG9	5959961.516	2528186.888
DI002	DI	26.398	28.298	1.9	DG9	5959980.726	2528150.171
DI003	DI	14.109	16.309	2.2	DG7	5960407.528	2527713.454
DI005	DI	18.996	22.346	3.35	DG7	5960551.715	2527496.886
DI006	DI	18.421	20.621	2.2	DG2	5960458.576	2528170.644
DI007	DI	12.15	14.25	2.1	DG2	5960624.07	2527925.166
DI008	DI	11.681	15.181	3.5	DG2	5960696.845	2527891.75
DI009	DI	12	14.2	2.2	DG2	5960656.138	2527948.33
DI010	DI	11.7	13.4	1.7	DG2	5960643.592	2527882.469
DI011	DI	18.275	19.975	1.7	DG2	5960506.613	2528191.524
DI012	DI	22.991	25.991	3	DG2	5960316.093	2528451.92
DI013	DI	20.085	26.085	6	DG2	5960283.027	2528430.268
DI014	DI	24.932	31.832	6.9	DG2	5960189.443	2528702.05
DI015	DI	29.553	32.353	2.8	DG2	5960120.503	2528671.468
DI016	DI	34.443	36.743	2.3	DG2	5959952.208	2528919.066
DI017	DI	31.07	35.57	4.5	DG2	5960054.657	2528972.841
DI018	DI	12.353	15.053	2.7	DG2	5960829.558	2527621.412
DI019	DI	11.523	14.523	3	DG2	5960785.855	2527758.305
DI020	DI	8.876	12.376	3.5	DG2	5960985.727	2527743.424
DI021	DI	9.518	12.218	2.7	DG2	5960963.789	2527776.112
DI022	DI	31.684	34.584	2.9	DG8	5959399.214	2528217.952
DI023	DI	29.243	32.843	3.6	DG8	5959365.998	2528137.005
DI024	DI	27.091	29.691	2.6	DG9	5959954.875	2527819.183
DI025	DI	27.716	32.116	4.4	DG9	5959822.701	2528109.8
DI026	DI	29.948	32.448	2.5	DG9	5959790.613	2528085.17
DI027	DI	34.28	35.28	1	DG8	5959678.591	2528350.494
DI028	DI	32.345	35.145	2.8	DG8	5959653.867	2528359.32
DI029	DI	33.06	35.26	2.2	DG8	5959621.582	2528336.644
DI030	DI	37.507	40.107	2.6	DG2	5959780.757	2529149.89
DI031	DI	41.18	42.68	1.5	DG6	5958872.218	2528910.772
DI032	DI	46.238	48.938	2.7	DG5	5959402.297	2529979.343
DI033	DI	45.242	50.442	5.2	DG5	5959155.316	2529564.229
DI034	DI	42.926	47.476	4.55	DG5	5958976.141	2529436.774
DI035	DI	43.643	47.943	4.3	DG5	5958942.801	2529414.755
DI036	DI	9.8	12.8	3	DG2	5961050.144	2527836.602
DI037	DI	42.45	47.35	4.9	DG5	5958769.615	2529299.834
DI038	DI	42.427	47.677	5.25	DG5	5958736.044	2529274.245
DI039	DI	42.342	47.142	4.8	DG5	5958568.633	2529154.91
DI040	DI	41.459	47.359	5.9	DG5	5958535.428	2529132.19
DI041	DI	39.953	50.253	10.3	DG5	5958355.253	2529022.711
DI042	DI	39.784	50.484	10.7	DG5	5958322.281	2529000.055
DI043	DI	50.743	52.893	2.15	DG5	5958423.94	2530255.745
DI044	DI	51.291	52.791	1.5	DG5	5958398.383	2530232.922
DI045	DI	50.103	51.953	1.85	DG5	5958010.971	2529980.403
DI046	DI	49.756	52.006	2.25	DG5	5957979.912	2529954.99
DI047	DI	51.791	55.291	3.5	DG5	5957841.47	2529830.405
DI048	DI	53.214	54.764	1.55	DG5	5957839.236	2530724.796
DI049	DI	51.944	54.744	2.8	DG5	5957854.596	2530689.831
DI050	DI	13.274	15.874	2.6	DG2	5960903.887	2528117.352

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI051	DI	51.868	53.868	2	DG5	5957948.357	2530500.549
DI052	DI	51.4	55.4	4	DG5	5957684.947	2530391.184
DI053	DI	52.49	55.49	3	DG5	5957615.149	2530397.072
DI054	DI	50.07	53.27	3.2	DG5	5957615.301	2531170.966
DI055	DI	56.522	57.022	0.5	DG5	5958033.111	2531222.857
DI056	DI	56.726	57.226	0.5	DG5	5958065.931	2531245.236
DI057	DI	50.938	55.838	4.9	DG5	5958722.97	2531017.372
DI058	DI	49.865	53.965	4.1	DG5	5958857.676	2530795.664
DI059	DI	48.496	52.596	4.1	DG5	5958974.257	2530635.806
DI060	DI	48.109	51.709	3.6	DG5	5959041.506	2530536.885
DI061	DI	47.247	50.547	3.3	DG5	5959225.068	2530256.029
DI062	DI	13.973	16.323	2.35	DG4	5961116.566	2528241.127
DI063	DI	13	15.908	2.908	DG4	5961163.077	2528274.012
DI064	DI	13.435	16.085	2.65	DG4	5961156.343	2528209.074
DI065	DI	10.871	12.971	2.1	DG4	5961287.148	2528016.233
DI066	DI	9.697	12.977	3.28	DG4	5961321.842	2528036.251
DI067	DI	9.606	11.706	2.1	DG4	5961376.564	2527961.151
DI068	DI	9.512	12.512	3	DG4	5961382.661	2527950.927
DI069	DI	7.97	12.97	5	DG4	5961614.968	2528107.252
DI070	DI	15.996	18.646	2.65	DG2	5960737.11	2528365.088
DI071	DI	9.539	11.739	2.2	DG4	5961973.499	2528364.39
DI072	DI	8.571	11.571	3	DG4	5962344.805	2528594.899
DI073	DI	7.988	11.988	4	DG4	5962378.73	2528617.093
DI074	DI	9.029	11.229	2.2	DG4	5962624.043	2528803.559
DI075	DI	8.606	10.506	1.9	DG4	5962929.316	2529010.215
DI076	DI	16.929	19.579	2.65	DG2	5960703.573	2528338.787
DI077	DI	8.659	10.459	1.8	DG4	5963256.832	2529232.406
DI078	DI	7.748	12.448	4.7	DG4	5963022.88	2529167.445
DI079	DI	10.321	11.821	1.5	DG4	5963210.382	2529300.467
DI080	DI	18.193	19.193	1	DG2	5960708.68	2528320.131
DI081	DI	9.64	12.54	2.9	DG4	5962696.187	2528946.521
DI082	DI	9.603	11.353	1.75	DG4	5963029.735	2529534.683
DI083	DI	9.615	11.015	1.4	DG4	5963054.808	2529503.967
DI084	DI	8.086	11.086	3	DG4	5962869.883	2529788.593
DI085	DI	8.021	10.921	2.9	DG4	5962894.311	2529756.487
DI086	DI	8.081	10.831	2.75	DG4	5962959.714	2529800.805
DI087	DI	22.978	24.478	1.5	DG2	5960577.475	2528599.269
DI088	DI	9.837	10.837	1	DG4	5962985.735	2529788.813
DI089	DI	8.882	10.982	2.1	DG3	5963187.227	2530002.329
DI090	DI	9.543	11.543	2	DG3	5963239.678	2530039.652
DI091	DI	7.74	10.84	3.1	DG3	5963228.012	2529966.648
DI092	DI	9.963	11.463	1.5	DG3	5963363.185	2529769.056
DI093	DI	10.27	11.27	1	DG3	5963396.485	2529790.378
DI094	DI	22.914	24.917	2.003	DG2	5960535.951	2528573.332
DI095	DI	7.668	10.986	3.318	DG3	5963404.037	2529710.063
DI096	DI	7.085	10.785	3.7	DG3	5963502.583	2529633.204
DI097	DI	9.997	11.497	1.5	DG3	5963562.159	2529550.533
DI098	DI	8	11	3	DG3	5963519.064	2529534.104
DI099	DI	23.801	25.801	2	DG2	5960837.216	2528777.033

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI100	DI	8.548	11.548	3	DG3	5963544.937	2529472.81
DI101	DI	8.925	11.525	2.6	DG3	5963598.413	2529494.846
DI102	DI	9.915	10.915	1	DG3	5963673.994	2529497.878
DI103	DI	7.58	10.98	3.4	DG3	5963904.847	2529420.513
DI104	DI	7.219	10.819	3.6	DG3	5963944.831	2529430.748
DI105	DI	6.727	11.027	4.3	DG3	5964221.595	2529406.134
DI106	DI	7.007	10.507	3.5	DG3	5964515.142	2529313.194
DI107	DI	7.259	10.459	3.2	DG3	5964571.424	2529295.826
DI109	DI	8.9	11	2.1	DG3	5964799.911	2529223.652
DI110	DI	9.175	10.375	1.2	DG3	5964765.989	2529331.511
DI111	DI	9.418	10.668	1.25	DG3	5964758.443	2529303.767
DI112	DI	9.616	11.616	2	DG3	5965044.056	2529213.655
DI113	DI	8.902	11.802	2.9	DG3	5965068.163	2529231.114
DI114	DI	9.538	11.868	2.33	DG3	5965214.122	2529186.104
DI115	DI	9.7	12.957	3.257	DG3	5965296.262	2529134.267
DI116	DI	29.328	31.328	2	DG2	5960364.117	2528826.604
DI117	DI	9.812	12.812	3	DG3	5965246.452	2529150.259
DI119	DI	10.1	12.7	2.6	DG3	5965247.934	2529083.179
DI120	DI	10.16	12.49	2.33	DG3	5965247.731	2529055.702
DI121	DI	10.901	12.651	1.75	DG3	5965286.331	2528993.688
DI122	DI	25.197	28.537	3.34	DG2	5960509.794	2528918.127
DI123	DI	10.672	11.672	1	DG3	5963419.136	2529448.709
DI124	DI	8.045	11.045	3	DG3	5963483.87	2529479.938
DI125	DI	8.173	10.973	2.8	DG3	5963436.427	2529530.733
DI126	DI	7.134	10.134	3	DG3	5963765.969	2529774.415
DI127	DI	7.812	10.142	2.33	DG3	5963740.76	2529742.395
DI128	DI	7.296	10.296	3	DG3	5963653.667	2529950.798
DI129	DI	9.272	10.572	1.3	DG3	5963606.163	2529923.895
DI130	DI	9.04	11.64	2.6	DG3	5963141.261	2530165.525
DI131	DI	8.959	11.459	2.5	DG3	5963166.786	2530125.472
DI132	DI	9.14	11.89	2.75	DG3	5963108.556	2530142.934
DI133	DI	11.098	11.098	0	DG3	5963126.603	2530116.403
DI134	DI	10.437	12.937	2.5	DG3	5963024.32	2530267.327
DI135	DI	8.5	12.8	4.3	DG3	5963169.917	2530637.156
DI136	DI	25.197	28.297	3.1	DG2	5960531.936	2528885.497
DI137	DI	8.282	11.482	3.2	DG3	5963128.174	2530686.817
DI138	DI	13.029	14.529	1.5	DG3	5962852.181	2530518.99
DI139	DI	12.752	14.952	2.2	DG3	5962845.626	2530502.537
DI140	DI	10.626	12.126	1.5	DG3	5963087.57	2530778.416
DI141	DI	9.793	12.293	2.5	DG3	5963039.305	2530847.089
DI142	DI	10.277	12.177	1.9	DG3	5963332.506	2530824.898
DI143	DI	9.613	11.113	1.5	DG4	5962929.546	2529953.274
DI144	DI	8.827	10.827	2	DG4	5962892.193	2529927.98
DI145	DI	11.635	13.635	2	DG4	5962759.728	2530024.204
DI146	DI	10.239	13.239	3	DG4	5962698.501	2530034.74
DI147	DI	15.803	17.603	1.8	DG4	5962503.336	2530217.117
DI148	DI	16.954	18.704	1.75	DG4	5962480.523	2530249.596
DI149	DI	18.076	19.076	1	DG4	5962512.71	2530266.466
DI150	DI	19.863	21.113	1.25	DG4	5962389.383	2530205.765

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI151	DI	20.337	21.837	1.5	DG4	5962359.105	2530180.122
DI152	DI	26.025	27.775	1.75	DG4	5962190.194	2530415.9
DI153	DI	27.605	29.905	2.3	DG2	5960650.464	2529028.658
DI154	DI	24.938	29.138	4.2	DG4	5962155.6	2530552.695
DI155	DI	29.183	31.633	2.45	DG4	5962070.417	2530696.87
DI156	DI	29.672	31.672	2	DG4	5962017.203	2530660.959
DI157	DI	30.802	32.802	2	DG4	5961806.743	2530533.261
DI158	DI	31.029	32.529	1.5	DG4	5961771.982	2530509.268
DI159	DI	28.291	31.491	3.2	DG2	5960470.626	2529205.646
DI160	DI	33.499	35.829	2.33	DG4	5961903.692	2530945.376
DI161	DI	32.899	35.199	2.3	DG4	5961852.944	2530911.393
DI162	DI	38.387	40.887	2.5	DG4	5961222.713	2530860.722
DI163	DI	39.176	41.276	2.1	DG4	5961187.985	2530841.496
DI164	DI	40.121	41.371	1.25	DG4	5961190.689	2530819.767
DI165	DI	42.482	44.152	1.67	DG4	5961029.013	2531076.088
DI166	DI	20.049	21.049	1	DG3	5962390.374	2531284.317
DI167	DI	20.12	21.12	1	DG3	5962352.105	2531261.806
DI168	DI	21.211	23.611	2.4	DG3	5962183.393	2531491.654
DI169	DI	20.558	23.858	3.3	DG3	5962201.861	2531460.657
DI170	DI	34.417	37.117	2.7	DG3	5961975.816	2531282.129
DI171	DI	35.101	37.301	2.2	DG3	5962003.843	2531311.198
DI172	DI	33.929	36.529	2.6	DG3	5961949.157	2531291.423
DI173	DI	33.547	36.947	3.4	DG3	5961917.378	2531316.945
DI174	DI	37.391	39.291	1.9	DG3	5961494.734	2531031.399
DI175	DI	37.459	40.209	2.75	DG3	5961436.929	2530992.05
DI176	DI	17.5	19	1.5	DG3	5961994.749	2531906.499
DI177	DI	20.253	21.253	1	DG3	5961899.6	2531915.19
DI178	DI	28.517	31.317	2.8	DG2	5960449.067	2529235.504
DI179	DI	18.993	22.493	3.5	DG3	5962013.034	2532066.744
DI180	DI	19.676	23.576	3.9	DG3	5962027.487	2532186.559
DI181	DI	19.485	22.235	2.75	DG3	5962092.595	2531998.65
DI182	DI	18.729	21.629	2.9	DG3	5962090.586	2531944.635
DI183	DI	19.688	25.688	6	DG3	5961517.036	2532722.622
DI184	DI	22.198	23.698	1.5	DG3	5961523.156	2532679.279
DI185	DI	33.039	35.539	2.5	DG2	5960281.326	2529487.552
DI186	DI	20.698	23.698	3	DG3	5961789.896	2532676.025
DI187	DI	18.992	23.992	5	DG3	5961789.036	2532727.445
DI188	DI	22.948	24.448	1.5	DG3	5961881.901	2532722.355
DI189	DI	23.766	28.516	4.75	DG3	5962130.134	2532758.349
DI190	DI	28.264	29.264	1	DG3	5962229.239	2532719.174
DI191	DI	26.285	31.085	4.8	DG3	5962200.947	2532970.412
DI193	DI	27.246	32.046	4.8	DG3	5962239.362	2533094.746
DI194	DI	29.16	34.41	5.25	DG3	5962274.985	2533238.926
DI195	DI	29.618	32.618	3	DG3	5962493.326	2533554.522
DI196	DI	29.601	32.601	3	DG3	5962623.638	2533743.09
DI197	DI	30.197	32.697	2.5	DG3	5962680.75	2533824.187
DI198	DI	30.178	32.928	2.75	DG3	5962714.845	2533869.074
DI199	DI	30.323	32.523	2.2	DG3	5962777.792	2533944.025
DI200	DI	30.529	35.129	4.6	DG2	5960332.102	2529521.892

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI201	DI	30.2	33.012	2.812	DG3	5962727.405	2533965.889
DI202	DI	30.455	33.888	3.433	DG3	5962625.465	2533969.613
DI203	DI	30.655	34.155	3.5	DG3	5962588.408	2533972.704
DI204	DI	33.525	36.625	3.1	DG3	5962325.418	2533976.76
DI205	DI	34.552	38.222	3.67	DG3	5962149.802	2533980.972
DI206	DI	36.885	38.885	2	DG3	5962112.172	2534029.551
DI207	DI	38.641	39.641	1	DG3	5962004.5	2534064.108
DI208	DI	38.971	39.971	1	DG3	5961549.753	2534175.226
DI209	DI	37.667	39.567	1.9	DG2	5960282.286	2529802.766
DI213	DI	26.88	30.38	3.5	DG1	5963274.884	2534436.058
DI214	DI	28.095	31.095	3	DG1	5963210.944	2534385.508
DI215	DI	25.886	27.886	2	DG1	5963793.149	2534878.617
DI216	DI	24.715	28.315	3.6	DG1	5963670.14	2534669.965
DI217	DI	27.936	28.936	1	DG1	5963611.952	2534611.527
DI218	DI	37.931	40.231	2.3	DG2	5960259.124	2529834.79
DI221	DI	34.962	36.462	1.5	DG3	5960828.408	2534037.958
DI222	DI	31.459	35.659	4.2	DG3	5960821.295	2534127.073
DI223	DI	29.407	36.007	6.6	DG3	5960812.413	2534476.218
DI224	DI	30.085	35.835	5.75	DG3	5960851.869	2534475.061
DI225	DI	26.875	32.875	6	DG3	5960552.189	2534486.928
DI226	DI	26.659	32.859	6.2	DG3	5960512.581	2534484.498
DI227	DI	36.891	40.391	3.5	DG2	5960165.269	2529771.673
DI228	DI	37.942	40.442	2.5	DG3	5961085.721	2534689.589
DI229	DI	37.746	40.296	2.55	DG3	5961083.805	2534731.22
DI230	DI	34.93	39.6	4.67	DG3	5960868.467	2534743.588
DI231	DI	34.563	41	6.437	DG3	5960811.247	2534747.386
DI232	DI	35.132	37.882	2.75	DG3	5960552.62	2534743.462
DI233	DI	38.76	40.86	2.1	DG2	5960113.796	2529735.573
DI234	DI	45.812	48.262	2.45	DG3	5960583.864	2535410.081
DI235	DI	45.017	47.617	2.6	DG3	5960520.529	2535408.893
DI236	DI	41.822	47.022	5.2	DG3	5960493.997	2535410.147
DI237	DI	50.858	51.858	1	DG3	5960256.207	2536365.07
DI238	DI	47.472	51.472	4	DG3	5960297.803	2536362.711
DI239	DI	52.666	56.566	3.9	DG3	5960557.152	2536608.036
DI240	DI	52.625	56.625	4	DG3	5960597.391	2536607.638
DI241	DI	49.288	52.888	3.6	DG3	5960830.555	2536665.681
DI242	DI	48.765	51.665	2.9	DG3	5960923.199	2536660.625
DI243	DI	48.314	51.064	2.75	DG3	5961029.3	2536657.646
DI244	DI	49.308	51.108	1.8	DG3	5961041.413	2536707.975
DI245	DI	48.043	51.543	3.5	DG3	5961133.942	2536653.594
DI246	DI	47.864	51.164	3.3	DG3	5961162.791	2536604.627
DI247	DI	46.496	49.696	3.2	DG3	5961158.601	2536411.926
DI248	DI	39.148	44.248	5.1	DG2	5959944.875	2529983.379
DI249	DI	47.738	49.738	2	DG3	5961197.982	2536409.644
DI250	DI	40.005	43.905	3.9	DG2	5959997.744	2530019.764
DI251	DI	52.667	54.967	2.3	DG2	5958897.817	2531428.814
DI252	DI	34.934	40.334	5.4	DG4	5960743.428	2530523.195
DI253	DI	35.006	39.606	4.6	DG4	5960685.629	2530484.095
DI254	DI	37.901	38.901	1	DG4	5960561.71	2530538.058

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI255	DI	39.437	41.767	2.33	DG4	5960449.492	2530325.039
DI256	DI	35.646	37.796	2.15	DG4	5960611.502	2530088.082
DI257	DI	36.185	37.185	1	DG4	5960644.981	2530108.676
DI258	DI	33.03	36.43	3.4	DG4	5960664.713	2530102.248
DI259	DI	26.088	33.488	7.4	DG4	5960773.776	2530182.162
DI260	DI	31.597	33.747	2.15	DG4	5960790.57	2530146.18
DI261	DI	29	35	6	DG4	5960926.073	2529924.126
DI262	DI	33.13	34.88	1.75	DG4	5960780.276	2529837.821
DI263	DI	28.75	31	2.25	DG4	5960949.516	2529885.894
DI264	DI	41.727	45.027	3.3	DG2	5959724.79	2529863.031
DI265	DI	23.677	27.877	4.2	DG4	5960987.659	2529833.222
DI266	DI	29.214	30.714	1.5	DG4	5961250.439	2529773.031
DI267	DI	26.662	29.262	2.6	DG4	5961186.681	2529742.398
DI268	DI	16.354	22.454	6.1	DG4	5961049.195	2529651.263
DI269	DI	18.026	22.226	4.2	DG4	5961074.815	2529611.147
DI270	DI	20.929	22.429	1.5	DG4	5961071.477	2529596.69
DI271	DI	15.041	22.941	7.9	DG4	5961029.505	2529534.053
DI272	DI	41.657	44.807	3.15	DG2	5959694.487	2529838.076
DI273	DI	17.767	19.767	2	DG4	5961140.697	2529375.955
DI274	DI	16.711	18.711	2	DG4	5961197.553	2529387.979
DI275	DI	18.24	20.24	2	DG4	5961117.843	2529342.694
DI276	DI	18.453	20.453	2	DG4	5961113.15	2529348.407
DI277	DI	15.029	18.929	3.9	DG4	5961214.507	2529352.915
DI278	DI	13.203	18.953	5.75	DG4	5961210.302	2529349.613
DI279	DI	23.248	27.248	4	DG4	5961396.76	2529526.698
DI280	DI	24.036	27.036	3	DG4	5961421.876	2529489.102
DI281	DI	39.256	43.456	4.2	DG2	5960048.735	2530054.461
DI282	DI	13.8	19.081	5.281	DG4	5961249.315	2529214.409
DI283	DI	17.851	20.101	2.25	DG4	5961201.458	2529215.031
DI284	DI	12.301	16.631	4.33	DG4	5961398.664	2529156.107
DI285	DI	11.733	16.883	5.15	DG4	5961419.246	2529123.365
DI286	DI	21.558	23.358	1.8	DG4	5961564.985	2529282.612
DI287	DI	20.494	22.494	2	DG4	5961600.815	2529229.489
DI288	DI	40.945	43.445	2.5	DG2	5960072.4	2530023.391
DI289	DI	22.767	24.427	1.66	DG4	5961664.968	2529336.345
DI290	DI	23.093	24.893	1.8	DG4	5961735.426	2529384.116
DI291	DI	23.821	25.221	1.4	DG4	5961773.289	2529409.633
DI292	DI	24.24	25.24	1	DG4	5961784.18	2529423.342
DI293	DI	29.663	30.913	1.25	DG4	5960944.896	2529242.511
DI294	DI	9.787	13.587	3.8	DG4	5961785.651	2528331.873
DI295	DI	42.951	43.951	1	DG2	5960195.782	2530148.644
DI296	DI	9.354	13.154	3.8	DG4	5961844.961	2528371.809
DI297	DI	11.262	14.712	3.45	DG4	5961615.528	2528579.199
DI298	DI	10.389	14.389	4	DG4	5961639.353	2528547.281
DI299	DI	11.021	13.121	2.1	DG4	5961735.796	2528611.802
DI300	DI	10.352	14.102	3.75	DG4	5961671.666	2528617.189
DI301	DI	14.341	18.341	4	DG4	5961446.99	2528851.885
DI302	DI	13.149	17.399	4.25	DG4	5961501.02	2528863.253
DI303	DI	16.751	19.499	2.748	DG4	5961750.049	2529031.62

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI305	DI	13.282	14.982	1.7	DG4	5961867.846	2528763.961
DI306	DI	42.207	45.607	3.4	DG2	5959793.774	2530236.175
DI307	DI	12.348	14.898	2.55	DG4	5961916.248	2528781.748
DI308	DI	12.939	15.039	2.1	DG4	5961936.293	2528734.036
DI310	DI	9.687	13.087	3.4	DG4	5962528.651	2528855.5
DI311	DI	9.711	13.211	3.5	DG4	5962562.618	2528879.709
DI312	DI	43.558	46.558	3	DG2	5959787.539	2530244.943
DI313	DI	13.845	14.845	1	DG4	5962361.638	2529063.795
DI314	DI	12.687	14.687	2	DG4	5962322.741	2529037.461
DI315	DI	9.993	11.743	1.75	DG4	5962401.966	2529251.272
DI316	DI	18.187	19.517	1.33	DG4	5961948.801	2529179.276
DI317	DI	17.794	19.544	1.75	DG4	5961944.952	2529162.923
DI318	DI	17.849	19.459	1.61	DG4	5961981.17	2529200.677
DI319	DI	17.953	19.283	1.33	DG4	5961996.767	2529197.648
DI320	DI	11.456	14.206	2.75	DG4	5962197.783	2529347.172
DI321	DI	10.919	14.419	3.5	DG4	5962217.33	2529296.455
DI322	DI	43.235	46.235	3	DG2	5960081.424	2530415.283
DI323	DI	10.75	13.047	2.297	DG4	5962265.668	2529325.083
DI324	DI	11.033	14.033	3	DG4	5962242.639	2529281.276
DI325	DI	11.926	12.926	1	DG4	5962315.72	2529369.583
DI326	DI	9.722	11.87	2.148	DG4	5962444.28	2529464.04
DI327	DI	9.267	10.937	1.67	DG4	5962443.213	2529499.484
DI328	DI	8.56	10.66	2.1	DG4	5962445.657	2529521.568
DI329	DI	9.45	11.55	2.1	DG4	5962316.263	2529595.447
DI330	DI	8.188	10.938	2.75	DG4	5962477.319	2529541.256
DI331	DI	8.56	10.81	2.25	DG4	5962589.767	2529598.941
DI332	DI	10.779	12.779	2	DG4	5962713.547	2529629.152
DI333	DI	43.624	46.424	2.8	DG2	5960033.201	2530416.628
DI334	DI	9.205	11.105	1.9	DG10	5962840.183	2528652.954
DI335	DI	8.898	11.325	2.427	DG10	5962879.895	2528653.906
DI336	DI	8.578	12.2	3.622	DG10	5962961.594	2528718.243
DI337	DI	8.895	12	3.105	DG10	5963040.105	2528715.996
DI338	DI	14.626	17.876	3.25	DG4	5962030.592	2529594.77
DI339	DI	12.629	16.879	4.25	DG4	5962055.737	2529628.369
DI340	DI	12.068	13.668	1.6	DG4	5962271.268	2529771.782
DI341	DI	11.158	13.658	2.5	DG4	5962274.675	2529747.663
DI342	DI	11.611	13.511	1.9	DG4	5962296.613	2529714.67
DI343	DI	10.302	13.202	2.9	DG4	5962329.582	2529784.8
DI344	DI	43.514	47.314	3.8	DG2	5959933.913	2530564.464
DI345	DI	11.507	12.907	1.4	DG4	5962352.792	2529752.209
DI346	DI	19.995	20.995	1	DG4	5962134.432	2529964.137
DI347	DI	19.275	20.275	1	DG4	5962156.398	2529948.049
DI348	DI	17.861	19.861	2	DG4	5962181.458	2529978.987
DI349	DI	18.324	20.324	2	DG4	5962183.314	2530001.261
DI350	DI	18.592	20.842	2.25	DG4	5962109.193	2530011.495
DI351	DI	17.376	20.576	3.2	DG4	5962142.482	2530037.012
DI352	DI	17.666	22.766	5.1	DG4	5961893.373	2529868.926
DI353	DI	45.797	46.797	1	DG2	5959968.552	2530672.557
DI354	DI	18.814	23.264	4.45	DG4	5961860.077	2529847.098

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI355	DI	21.974	23.304	1.33	DG4	5961856.03	2529828.349
DI356	DI	24.531	26.781	2.25	DG4	5961742.811	2530112.56
DI357	DI	25.111	27.911	2.8	DG4	5961695	2530091.968
DI358	DI	24.286	26.736	2.45	DG4	5961715.066	2530131.976
DI359	DI	44.156	49.156	5	DG2	5959704.278	2530902.715
DI360	DI	46.672	49.472	2.8	DG2	5959736.242	2530925.9
DI361	DI	51.384	53.884	2.5	DG2	5959378.709	2531385.55
DI362	DI	49.875	52.675	2.8	DG2	5959480.908	2531233.402
DI363	DI	51.811	53.911	2.1	DG2	5959220.412	2531472.609
DI364	DI	35.459	37.639	2.18	DG6	5959505.345	2528601.861
DI365	DI	36.32	37.62	1.3	DG6	5959454.494	2528583.817
DI366	DI	33.811	35.911	2.1	DG6	5959257.27	2528434.116
DI367	DI	42.216	44.216	2	DG2	5959617.698	2529414.602
DI368	DI	33.797	34.797	1	DG6	5959183.944	2528404.034
DI369	DI	33.042	34.042	1	DG6	5959185.822	2528364.584
DI370	DI	37.946	38.946	1	DG6	5959064.005	2528611.259
DI371	DI	36.936	39.336	2.4	DG6	5959086.692	2528680.75
DI372	DI	36.46	39.26	2.8	DG6	5959038.607	2528663.44
DI373	DI	41.614	42.814	1.2	DG6	5958917.137	2528928.239
DI374	DI	31.417	32.417	1	DG3	5962328.656	2533023.33
DI488	DI	23.569	24.569	1	DG4	5961184.459	2529664.177
DI489	DI	13.368	14.868	1.5	DG4	5962655.805	2529263.554
DI490	DI	36.256	37.256	1	DG6	5959539.674	2528576.707
DI491	DI	52.2	53.45	1.25	DG2	5959373.37	2531399.789
DI492	DI	51.95	53.2	1.25	DG2	5959380.491	2531388.293
DI494	DI	9.759	12.759	3	DG4	5962584.534	2529464.31
DI495	DI	12.526	15.526	3	DG4	5962237.548	2529106.116
DI496	DI	20.974	23.974	3	DG4	5961706.562	2529302.267
DI498	DI	40.222	41.722	1.5	DG3	5961399.604	2534682.313
DI499	DI	40.695	41.695	1	DG3	5961399.527	2534721.145
DI500	DI	41.86	42.86	1	DG3	5961766.044	2534713.026
DI501	DI	8.908	9.908	1	DG3	5964537.478	2529381.565
DI503	DI	6.091	10.691	4.6	DG3	5963551.526	2529272.164
DI504	DI	13.506	14.506	1	DG4	5962808.483	2529343.118
DI505	DI	10.904	11.904	1	DG4	5962813.214	2529241.619
DI508	DI	15.855	18.355	2.5	DG4	5961240.743	2529319.163
DI509	DI	10.392	11.392	1	DG3	5963389.468	2529791.801
DI511	DI	22.404	25.204	2.8	DG3	5962060.215	2532407.248
DI512	DI	15	21	6	DG3	5961490.817	2532424.913
DI513	DI	16.791	21	4.209	DG3	5961494.216	2532451.252
DI514	DI	30.113	33.013	2.9	DG3	5962740.757	2533965.502
DI515	DI	11.397	13.397	2	DG3	5962900.87	2531038.772
DI516	DI	31.129	32.229	1.1	DG3	5962958.06	2534145.128
DI518	DI	25.063	28.763	3.7	DG1	5963649.858	2534759.186
DI519	DI	8.795	11.095	2.3	DG3	5963267.21	2530009.687
DI520	DI	32.453	35.853	3.4	DG3	5962017.173	2531338.804
DI521	DI	26.087	27.087	1	DG2	5960511.861	2528695.085
DI522	DI	28.201	30.201	2	DG2	5960607.698	2529020.791
DI523	DI	41.717	45.417	3.7	DG2	5959679.4	2529831.017

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
DI524	DI	12.705	14.105	1.4	DG2	5960737.074	2527758.134
DI525	DI	9.744	12.944	3.2	DG2	5960580.311	2527837.168
DI526	DI	11.152	14.002	2.85	DG4	5961990.713	2528581.883
DI527	DI	11.037	13.887	2.85	DG4	5962059.154	2528552.713
DI528	DI	10.049	13.749	3.7	DG4	5961839.456	2528324.294
DI529	DI	10.637	13.737	3.1	DG4	5961864.995	2528341.813
DI530	DI	49.726	52.226	2.5	DG5	5958187.139	2530072.754
DI531	DI	49.487	51.887	2.4	DG5	5958234.667	2530104.901
DI532	DI	29.857	34.357	4.5	DG8	5959392.171	2528177.835
DI533	DI	13.133	16.133	3	DG7	5960311.992	2527656.962
DI535	DI	13.394	14.394	1	DG4	5962539.89	2529177.876
DI536	DI	53.215	57.215	4	DG3	5960569.425	2536739.316
DI537	DI	47	50.164	3.164	DG3	5961168.533	2536044.846
DI538	DI	15.568	16.568	1	DG4	5962247.98	2528980.466
I001	Inter	23.5	49	25.5	DG5	5958143.768	2528906.59
I002	Inter	12	17.537	5.537	DG3	5962131.828	2531880.806
I003	Inter	11.59	15	3.41	DG2	5960771.7	2527779.526
I004	Inter	40.906	42.906	2	DG6	5958886.07	2528895.775
I005	Inter	41.1	43.445	2.345	DG6	5958924.233	2528921.37
I009	Inter	4.625	12	7.375	DG3	5964322.801	2529924.783
I010	Inter	42.43	47.413	4.983	DG5	5958755.644	2529286.952
I011	Inter	50.933	52.933	2	DG5	5958447.889	2530226.341
I012	Inter	50.861	52.861	2	DG5	5958417.087	2530205.439
I013	Inter	44.5	52.288	7.788	DG5	5958233.374	2530084.431
I014	Inter	47.624	52.506	4.882	DG5	5958030.837	2529950.71
I015	Inter	48.707	52.449	3.742	DG5	5958000.034	2529930.175
I016	Inter	50.2	53	2.8	DG5	5957972.529	2530465.894
I017	Inter	51.5	58	6.5	DG5	5957638.927	2530391.392
I018	Inter	51.83	58.23	6.4	DG5	5957651.077	2531134.083
I019	Inter	49.2	54.7	5.5	DG5	5958870.037	2530796.368
I020	Inter	48.5	55	6.5	DG5	5958980.118	2530634.709
I021	Inter	46.83	53	6.17	DG5	5959222.193	2530274.415
I022	Inter	45.542	52.33	6.788	DG5	5958194.177	2530058.552
I023	Inter	12.8	15.689	2.889	DG4	5961192.309	2528225.001
I025	Inter	27.5	30.105	2.605	DG2	5960617.655	2529026.419
I026	Inter	8	13.53	5.53	DG4	5961985.103	2528350.532
I027	Inter	7.1	12.35	5.25	DG4	5962635.794	2528790.033
I028	Inter	7.05	11.26	4.21	DG4	5962938.725	2528993.01
I029	Inter	4	11	7	DG4	5963205.281	2529034.404
I030	Inter	4	11	7	DG4	5963214.052	2529045.643
I031	Inter	6.4	10.922	4.522	DG4	5963113.023	2529134.05
I033	Inter	11.09	14.358	3.268	DG4	5962023.32	2528597.933
I034	Inter	12.533	14.133	1.6	DG4	5962689.351	2529233.233
I035	Inter	22	25	3	DG2	5960578.932	2528597.313
I036	Inter	8	14	6	DG4	5962745.743	2529780.785
I038	Inter	10.2	13.823	3.623	DG2	5960848.475	2527692.981
I039	Inter	8.1	11.476	3.376	DG4	5962979.511	2529814.652
I040	Inter	8.1	10.368	2.268	DG4	5963016.479	2529839.96
I041	Inter	9.93	13	3.07	DG3	5963393.145	2529787.919

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
I042	Inter	9.93	11.419	1.489	DG3	5963433.031	2529729.935
I043	Inter	9	12	3	DG3	5963500.238	2529631.638
I044	Inter	8.9	10.985	2.085	DG3	5963560.21	2529542.71
I045	Inter	8.01	12	3.99	DG3	5963534.827	2529509.368
I046	Inter	8.87	11.575	2.705	DG3	5963591.095	2529498.927
I047	Inter	8.85	12	3.15	DG3	5963599.219	2529487.204
I048	Inter	8.33	11.33	3	DG3	5963692.967	2529357.939
I049	Inter	1.604	5.604	4	DG3	5963580.048	2529195.156
I050	Inter	29.853	30.853	1	DG2	5960397.102	2528848.58
I051	Inter	8.929	12	3.071	DG3	5964832.37	2529308.469
I052	Inter	8.901	11.963	3.062	DG3	5965052.807	2529234.216
I053	Inter	9.5	13.188	3.688	DG3	5965342.747	2529192.057
I054	Inter	9.6	13.36	3.76	DG3	5965349.99	2529120.141
I055	Inter	10.02	13.679	3.659	DG3	5965352.405	2529102.377
I056	Inter	10.05	13.121	3.071	DG3	5965336.193	2529056.503
I057	Inter	7.5	12.281	4.781	DG3	5964356.11	2529576.326
I058	Inter	7.8	10.673	2.873	DG3	5964354.436	2529441.835
I059	Inter	7.9	9.819	1.919	DG3	5964381.223	2529435.138
I060	Inter	6.958	8.958	2	DG3	5963858.902	2529660.17
I061	Inter	7.3	11.187	3.887	DG3	5963621.305	2529973.963
I062	Inter	26.5	32	5.5	DG2	5960518.221	2528908.513
I063	Inter	9.514	10.514	1	DG3	5963949.013	2529977.606
I064	Inter	7.5	12.497	4.997	DG3	5963293.399	2530447.953
I065	Inter	7.4	12	4.6	DG3	5963382.865	2530323.389
I066	Inter	8.5	12.169	3.669	DG3	5963137.171	2530683.979
I067	Inter	12.944	14.444	1.5	DG3	5962867.047	2530502.196
I068	Inter	10.3	12.4	2.1	DG3	5963078.917	2530771.634
I069	Inter	10.568	12.568	2	DG3	5963039.968	2530831.295
I070	Inter	11.867	12.867	1	DG3	5963072.273	2531281.747
I071	Inter	8.2	11.352	3.152	DG4	5962903.512	2529927.842
I072	Inter	10	15.492	5.492	DG4	5962565.687	2529936.004
I073	Inter	10.6	15.499	4.899	DG4	5962557.899	2529930.506
I074	Inter	14.7	20.73	6.03	DG4	5962415.395	2530155.484
I075	Inter	10.012	12.012	2	DG2	5960916.818	2527745.177
I076	Inter	27.1	29.93	2.83	DG2	5960632.426	2529005.248
I077	Inter	16.5	21.559	5.059	DG4	5962396.505	2530183.184
I078	Inter	18	21.347	3.347	DG4	5962387.758	2530196.062
I079	Inter	24	29.472	5.472	DG4	5962149.756	2530545.495
I080	Inter	27.5	35	7.5	DG4	5962039.262	2530662.304
I081	Inter	28.6	35	6.4	DG4	5962025.824	2530653.4
I082	Inter	29	32.675	3.675	DG4	5961821.748	2530515.11
I083	Inter	32	35.288	3.288	DG4	5961895.622	2530877.227
I084	Inter	38	41.079	3.079	DG4	5961224.446	2530848.06
I085	Inter	41.4	43.897	2.497	DG4	5961036.37	2531072.861
I086	Inter	14.003	15.003	1	DG3	5962463.537	2531334.967
I087	Inter	11	15.5	4.5	DG3	5962424.142	2531609.606
I088	Inter	32.5	36.786	4.286	DG3	5961999.303	2531323.087
I089	Inter	28.7	31.798	3.098	DG2	5960463.393	2529241.62
I090	Inter	32.8	37.093	4.293	DG3	5961965.953	2531300.409

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
I091	Inter	33.2	36.589	3.389	DG3	5961951.859	2531290.873
I092	Inter	15	18.6	3.6	DG3	5961771.305	2532051.762
I093	Inter	18	21.757	3.757	DG3	5961923.052	2531942.09
I094	Inter	18.5	28.09	9.59	DG3	5961357.324	2532707.756
I095	Inter	18	25	7	DG3	5961257.483	2532592.424
I096	Inter	18.992	24.579	5.587	DG3	5961790.812	2532720.881
I097	Inter	22	29	7	DG3	5961882.179	2532717.966
I098	Inter	23.6	29	5.4	DG3	5962095.385	2532711.354
I099	Inter	28.395	29.395	1	DG3	5962227.132	2532728.864
I100	Inter	30.5	32.776	2.276	DG3	5962843.545	2534037.109
I101	Inter	36	40.135	4.135	DG3	5961547.962	2534079.099
I102	Inter	24.521	27.521	3	DG1	5963845.704	2534818.61
I103	Inter	15.775	16.775	1	DG1	5963866.098	2534795.078
I104	Inter	17.622	20.122	2.5	DG2	5960497.994	2528178.387
I105	Inter	23.764	27	3.236	DG3	5960404.667	2534488.532
I107	Inter	36.88	39.88	3	DG3	5960870.049	2534731.168
I108	Inter	33	39.895	6.895	DG3	5960814.559	2534731.642
I109	Inter	30	37.907	7.907	DG3	5960557.596	2534735.171
I110	Inter	22.82	40.279	17.459	DG3	5960104.406	2534751.914
I111	Inter	48.209	49.209	1	DG3	5961120.988	2535390.463
I112	Inter	36.425	37.925	1.5	DG3	5960147.714	2535416.172
I113	Inter	45.855	46.855	1	DG3	5961572.176	2535981.107
I114	Inter	46.69	47.69	1	DG3	5961345.964	2535992.356
I115	Inter	47	50	3	DG3	5961343.464	2536038.599
I116	Inter	44	46	2	DG3	5960293.638	2536168.577
I117	Inter	47.5	57.466	9.966	DG3	5960307.801	2536683.492
I118	Inter	48	56.893	8.893	DG3	5960567.757	2536675.994
I120	Inter	38.99	44.156	5.166	DG2	5959960.707	2529989.782
I122	Inter	46.594	52	5.406	DG3	5961162.327	2536409.133
I123	Inter	46	49	3	DG3	5961159.899	2536320.288
I124	Inter	32.454	39.819	7.365	DG4	5960629.769	2530438.172
I125	Inter	39	41.978	2.978	DG4	5960466.112	2530318.096
I126	Inter	34.318	39	4.682	DG4	5960626.443	2530075.938
I127	Inter	40.971	44.971	4	DG2	5959740.737	2529837.672
I128	Inter	33.468	36.868	3.4	DG4	5960654.249	2530095.222
I129	Inter	29.1	35	5.9	DG4	5960922.578	2529929.41
I130	Inter	18.7	28	9.3	DG4	5961096.028	2529668.476
I131	Inter	22	24.584	2.584	DG4	5961158.373	2529667.329
I132	Inter	22.5	27.503	5.003	DG4	5961405.199	2529518.269
I133	Inter	22	26.559	4.559	DG4	5961426.409	2529486.022
I134	Inter	17.985	19.985	2	DG2	5960491.604	2528187.76
I135	Inter	14	19.667	5.667	DG4	5961188.957	2529314.654
I136	Inter	12	17.259	5.259	DG4	5961415.586	2529131.001
I137	Inter	21	23.385	2.385	DG4	5961573.329	2529267.015
I138	Inter	20.4	23.9	3.5	DG4	5961695.304	2529318.664
I139	Inter	23.83	25.179	1.349	DG4	5961788.865	2529415.309
I140	Inter	7.4	13.77	6.37	DG4	5961841.836	2528335.031
I141	Inter	7.2	15	7.8	DG4	5961854.148	2528343.097
I142	Inter	9.8	13.803	4.003	DG4	5961680.127	2528573.424

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
I143	Inter	41.047	46.047	5	DG2	5959800.816	2530227.294
I144	Inter	11.3	14.69	3.39	DG4	5961956.834	2528696.272
I146	Inter	13.238	15.238	2	DG4	5962364.805	2529057.882
I147	Inter	13.251	15.251	2	DG4	5962331.73	2529035.677
I149	Inter	11.259	14.959	3.7	DG4	5962308.039	2529153.506
I150	Inter	11	14.074	3.074	DG4	5962326.894	2529218.994
I151	Inter	42	46.714	4.714	DG2	5960054.869	2530397.31
I153	Inter	17.702	19.702	2	DG4	5961959.814	2529167.303
I154	Inter	17.59	19.59	2	DG4	5961989.995	2529187.709
I155	Inter	10.8	12.816	2.016	DG4	5962262.074	2529338.39
I156	Inter	10.75	12.964	2.214	DG4	5962265.09	2529311.251
I157	Inter	10.75	12.388	1.638	DG4	5962315.237	2529372.496
I158	Inter	9.5	11.433	1.933	DG4	5962455.141	2529471.857
I159	Inter	8.25	11.433	3.183	DG4	5962456.347	2529503.98
I160	Inter	42.5	46.759	4.259	DG2	5960042.725	2530415.121
I161	Inter	8.9	11.566	2.666	DG4	5962382.244	2529612.75
I162	Inter	7.7	12.066	4.366	DG4	5962715.408	2529626.361
I163	Inter	43	47.454	4.454	DG2	5959940.607	2530566.18
I164	Inter	12.5	17.292	4.792	DG4	5962062.656	2529614.13
I165	Inter	10.66	15	4.34	DG4	5962337.614	2529778.564
I166	Inter	18	21.085	3.085	DG4	5962152.995	2530016.42
I167	Inter	17	22.639	5.639	DG4	5961893.844	2529863.539
I168	Inter	43.5	47.708	4.208	DG2	5959900.146	2530625.735
I169	Inter	19	25.83	6.83	DG2	5960318.383	2528445.48
I170	Inter	52.338	54.478	2.14	DG2	5959222.523	2531417.65
I171	Inter	24.786	27.786	3	DG9	5959996.059	2527840.806
I172	Inter	22	26.123	4.123	DG9	5960038.165	2527778.241
I173	Inter	26	31.827	5.827	DG9	5959837.061	2528076.739
I174	Inter	26.5	29.368	2.868	DG9	5959973.454	2528166.021
I175	Inter	37.95	39.95	2	DG2	5959795.687	2529154.236
I176	Inter	27.65	31.994	4.344	DG9	5959821.104	2528102.193
I177	Inter	33.5	37.859	4.359	DG6	5959470.169	2528562.747
I178	Inter	32	35.881	3.881	DG6	5959272.237	2528428.665
I179	Inter	29	35.04	6.04	DG6	5959204.4	2528399.652
I180	Inter	24.874	28	3.126	DG2	5960508.748	2528692.765
I181	Inter	22.244	34.244	12	DG6	5959200.225	2528362.08
I182	Inter	35.459	38.459	3	DG6	5959070.896	2528615.235
I183		20	25	5	DG3	5961228.73	2532639.439
I184		17	25.324	8.324	DG3	5961315.989	2532590.765
I185		15	24.602	9.602	DG3	5960301.918	2534332.012
I188		15	22.275	7.275	DG3	5961493.168	2532344.319
I189		9	17	8	DG3	5965334.986	2529257.249
I190		4.996	14	9.004	DG4	5963254.354	2528985.527
I191		20.9	22.9	2	DG9	5960052.484	2527692.104
I192		18	22	4	DG5	5958091.701	2528840.14
I193		3.5	8	4.5	DG2	5961443.576	2527216.784
I536	Inter	59.953	60.953	1	DG3	5960608.585	2536064.844
I707		7.58	10.83	3.25	DG3	5963770.789	2529324.132
I997		8.9	12.198	3.298	DG4	5961378.612	2527958.097

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
I999		8.82	10.928	2.108	DG3	5963656.362	2529403.096
J1		10.502	12.602	2.1	DG4	5961337.974	2528014.112
J10		8.6	11.157	2.557	DG4	5963054.437	2529745.338
J107		10.395	17.395	7	DG7	5960239.325	2527604.891
J11		8.5	11.205	2.705	DG4	5963026.19	2529726.938
J13	Inter	7.653	13.418	5.765	DG4	5962895.06	2529414.174
J15	Inter	6.922	12.869	5.947	DG4	5962794.065	2529519.745
J16	DI	10	12.236	2.236	DG4	5962527.37	2529436.189
J17		9.253	11.788	2.535	DG4	5962473.169	2529475.684
J18	MH	8.757	14.117	5.36	DG4	5962563.37	2529350.243
J19	Inter	8.189	12.987	4.798	DG4	5962917.266	2529428.641
J20	DI	8	12.855	4.855	DG4	5962936.69	2529389.846
J21	DI	6.641	13.783	7.142	DG4	5962880.091	2529392.425
J22		16	18.324	2.324	DG4	5961512.741	2529147.485
J23		15.079	17.972	2.893	DG4	5961477.646	2529174.414
J24		23.5	25.837	2.337	DG2	5960794.537	2528747.365
J25	DI	26	27.945	1.945	DG2	5960695.074	2528890.945
J26		25.864	28.075	2.211	DG2	5960701.231	2528894.227
J27	MH	12.321	17.98	5.659	DG4	5961489.692	2528840.716
J28	MH	12.951	17.696	4.745	DG4	5961508.686	2528850.106
J29	DI	22.212	25.118	2.906	DG2	5960609.393	2528618.567
J3	DI	42.029	45.029	3	DG2	5959542.544	2529349.583
J30	MH	23.248	24.67	1.422	DG2	5960565.506	2528591.822
J31	MH	16.175	19.404	3.229	DG2	5960718.603	2528349.735
J32	Inter	10.272	14.456	4.184	DG4	5961669.52	2528563.952
J33	DI	9.452	13.72	4.268	DG4	5962265.703	2528626.448
J34	Inter	7	13.764	6.764	DG4	5962268.858	2528619.646
J36	DI	6.7	13.669	6.969	DG4	5962347.712	2528675.588
J37	MH	11.938	14.299	2.361	DG4	5962201.852	2529336.646
J38	MH	8	11.773	3.773	DG4	5963226.872	2529276.06
J39	DI	6.996	12.631	5.635	DG4	5963024.421	2529253.741
J4	DI	40.799	43.799	3	DG2	5959695.947	2529457.592
J40	MH	5.949	11.844	5.895	DG4	5963072.54	2529171.658
J41	Inter	7.233	12.102	4.869	DG4	5962902.509	2529055.787
J42	DI	9	13.087	4.087	DG4	5962884.874	2529079.98
J43	DI	7.082	11.833	4.751	DG4	5962744.895	2528863.17
J44	DI	7.99	11.935	3.945	DG4	5962727.616	2528892.813
J45	DI	7.06	11.012	3.952	DG4	5962879.084	2528953.116
J46	DI	7.07	11.562	4.492	DG4	5962817.368	2528911.793
J47	MH	8.292	11.95	3.658	DG4	5962354.717	2528613.831
J48	MH	8.4	11.939	3.539	DG4	5962360.999	2528604.117
J49	DI	18	21.416	3.416	DG4	5961017.33	2528537.374
J5	Inter	39.718	42.718	3	DG2	5959698.982	2529349.468
J50	MH	15	21.134	6.134	DG4	5960995.376	2528524.926
J51	DI	19	22.114	3.114	DG4	5960964.438	2528560.264
J52	DI	18	21.228	3.228	DG4	5960947.777	2528492.513
J53	Inter	19.409	21.828	2.419	DG2	5960655.922	2528475.373
J54	DI	19.5	21.627	2.127	DG2	5960659.002	2528476.909
J55	Inter	15.582	18.73	3.148	DG2	5960752.117	2528302.239

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
J56	Inter	13.622	18.682	5.06	DG2	5960762.99	2528309.243
J57	Inter	11.664	16.416	4.752	DG2	5960882.048	2528133.255
J58	Inter	13.415	16.673	3.258	DG2	5960874.461	2528128.546
J59		12.532	16.054	3.522	DG2	5960892.944	2528046.912
J6		14.5	20.039	5.539	MH	5961220.666	2529227.16
J60		11.138	16.12	4.982	DG2	5960899.779	2528051.538
J61	DI	0	14.869	14.869	DG4	5961503.855	2528154.573
J62		9.382	13.926	4.544	DG4	5961517.01	2528132.002
J63	DI	11.5	14.164	2.664	DG4	5961393.302	2528083.928
J64		10.067	13.111	3.044	DG4	5961407.554	2528059.975
J65	DI	10.253	12.598	2.345	DG4	5961348.704	2527999.417
J66	DI	11	13.372	2.372	DG4	5961247.536	2527980.826
J67	Inter	10.308	13.303	2.995	DG4	5961258.523	2527965.142
J68	MH	9.7	14.26	4.56	DG2	5961044.538	2527845.616
J69	MH	5.949	11.771	5.822	DG4	5963080.072	2529176.709
J7		13.5	21.288	7.788	MH	5961320.482	2529082.095
J8		12.5	17.678	5.178	MH	5961480.188	2528854.514
J9	DI	10.352	13.352	3	DG4	5962605.284	2529814.08
MH001	MH	11.476	16.476	5	DG2	5960893.486	2528116.282
MH002	MH	14.165	19.165	5	DG2	5960730	2528357.986
MH003	MH	5.692	12.192	6.5	DG4	5961377.929	2527954.383
MH004	MH	9.857	12.857	3	DG4	5961866.187	2528287.866
MH005	MH	7.2	12.9	5.7	DG4	5961869.143	2528283.645
MH006	MH	25.901	30.901	5	DG2	5960399.001	2528842.064
MH007	MH	26.899	29.899	3	DG2	5960637.972	2528993.662
MH008	MH	27.692	31.692	4	DG2	5960481.105	2529211.717
MH009	MH	9	12.512	3.512	DG4	5961582.347	2528096.858
MH010	MH	37.787	40.787	3	DG2	5960124.731	2529743.655
MH011	MH	6.955	13.155	6.2	DG4	5961813.496	2528353.39
MH012	MH	7.43	13.63	6.2	DG4	5961828.987	2528337.354
MH013	MH	14.136	17.336	3.2	DG7	5960414.778	2527700.373
MH014	MH	14.215	17.515	3.3	DG7	5960418.433	2527695.536
MH015	MH	10.583	14.583	4	DG2	5960832.154	2527686.346
MH016	MH	34.076	39.276	5.2	DG6	5959046.349	2528654.928
MH017	MH	30.064	35.264	5.2	DG6	5959202.545	2528415.855
MH018	MH	34.082	38.082	4	DG6	5959498.968	2528589.692
MH019	MH	24.113	27.113	3	DG4	5961731.379	2530106.226
MH020	MH	10.675	13.675	3	DG4	5962282.515	2529744.952
MH021	MH	12.33	17.33	5	DG4	5962067.545	2529607.92
MH022	MH	7.015	12.315	5.3	DG4	5962748.738	2529586.577
MH023	MH	8.476	12.376	3.9	DG4	5962716.548	2529635.764
MH024	MH	6.953	11.553	4.6	DG4	5962527.873	2529510.905
MH025	MH	7.686	11.886	4.2	DG4	5962501.414	2529505.783
MH026	MH	8.379	11.779	3.4	DG4	5962468.477	2529482.18
MH027	MH	13.097	14.897	1.8	DG4	5962391.567	2529081.058
MH028	MH	5.693	13.193	7.5	DG4	5962561.687	2528824.647
MH029	MH	6.85	13.787	6.937	DG4	5962308.443	2528654.244
MH030	MH	7.154	14.054	6.9	DG4	5962084.026	2528508.144
MH031	MH	11.315	15.565	4.25	DG4	5961923.18	2528746.578

Base Conditions Junction Summary

Name	Description	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Tag	X-Coordinate	Y-Coordinate
MH032	MH	9.32	14.72	5.4	DG4	5961649.024	2528608.847
MH033	MH	10.2	14.78	4.58	DG4	5961661.796	2528575.215
MH034	MH	20.212	23.212	3	DG4	5961581.124	2529246.722
MH035	MH	32.785	35.785	3	DG2	5960293.349	2529494.248
MH036	MH	30.849	34.249	3.4	DG4	5961563.29	2530347.563
MH037	MH	29.724	32.724	3	DG4	5961785.964	2530496.039
MH038	MH	27.163	32.163	5	DG4	5962054.778	2530678.345
MH039	MH	21.749	27.549	5.8	DG4	5962227.463	2530432.013
MH040	MH	13.92	15.42	1.5	DG4	5962300.05	2529013.441
MH041	MH	12.579	14.079	1.5	DG4	5962506.057	2528907.132
MH042	MH	18.093	21.993	3.9	DG4	5961063.958	2529617.209
MH044	MH	6.641	11.641	5	DG4	5962746.011	2529659.131
MH045	MH	7.95	13.066	5.116	DG4	5962914.362	2529399.838
MH046	MH	8.168	11.168	3	DG3	5963215.935	2529983.803
MH047	MH	7.706	13.006	5.3	DG4	5962919.43	2529402.407
MH048	MH	6.948	11.948	5	DG4	5962699.102	2529735.001
MH049	MH	8.168	13.168	5	DG4	5962906.68	2529421.88
MH050	MH	8.47	11.47	3	DG4	5963061.752	2529520.484
MH051	MH	6.755	13.855	7.1	DG4	5962874.785	2529400.73
MH052	MH	5.808	13.608	7.8	DG4	5962918.807	2529331.577
MH053	DI	8.7	17	8.3	DG4	5962987.863	2529229.883
MH054	MH	8.739	11.739	3	DG4	5962786.212	2529084.871
MH055	MH	6.254	12.754	6.5	DG4	5962713.413	2528927.04
MH057	MH	7.263	12.463	5.2	DG4	5962817.177	2528997.135
MH058	MH	6.557	12.557	6	DG4	5963058.499	2529190.98
MH059	MH	7.183	11.883	4.7	DG4	5963044.304	2529153.093
MH061	MH	5.46	11.46	6	DG4	5963116.793	2529125.881
MH062	MH	4.25	11.25	7	DG4	5963109.476	2529120.72
MH063	MH	7.15	12.4	5.25	DG4	5962598.257	2528769.862
MH064	MH	6.82	12.32	5.5	DG4	5962584.406	2528761.1
MH065	MH	9.109	12.609	3.5	DG4	5961607.772	2528112.825
MH066	MH	7.373	12.873	5.5	DG4	5962086.814	2528428.222
MH067	MH	13.5	18.59	5.09	DG4	5961332.272	2529089.118
MH068	MH	7.142	13.342	6.2	DG4	5961822.615	2528351.006
MH069	MH	45.268	52.268	7	DG5	5958206.627	2530117.177
MH070	MH	46.07	51.834	5.764	DG5	5959082.327	2529754.405

Base Condition Outfalls

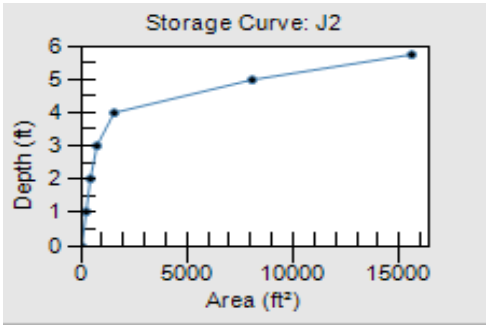
Name	Invert Elev. (ft)	Rim Elev. (ft)	Type
OF1	12.00	14.17	NORMAL
OF2	3.00	8.00	TIDAL
OF3	0.00	4.00	TIDAL
OF4	4.60	10.00	TIDAL
OF5	14.00	18.00	TIDAL
OF6	8.00	12.00	TIDAL
OF7	9.66	17.66	TIDAL
OF8	13.17	17.17	TIDAL
OF9	6.12	22.00	TIDAL
OF10	2.49	4.49	TIDAL

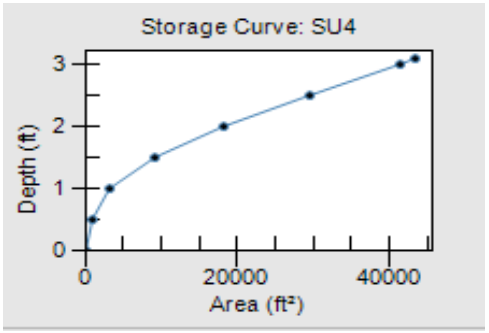
Attachment 6

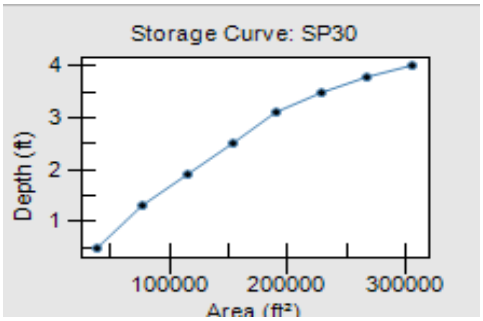
Storage Curves

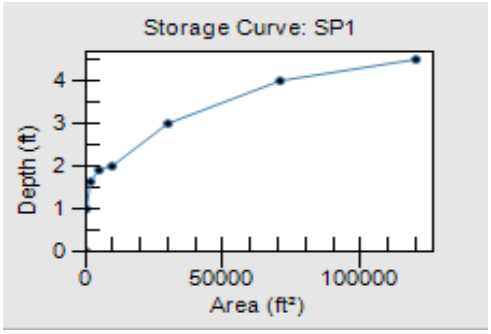
Storage Curves

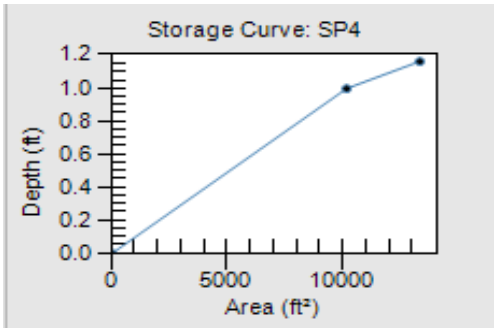
Name	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Curve Name
CreekStorage	22.81	25.91	3.09	SU4
I186	6.88	17.00	10.12	SP30
J2	14.32	20.03	5.71	J2
SP1	15.00	22.00	7.00	SP1
SP4	12.00	17.53	5.53	SP4
SP7	7.40	10.29	2.89	SP7

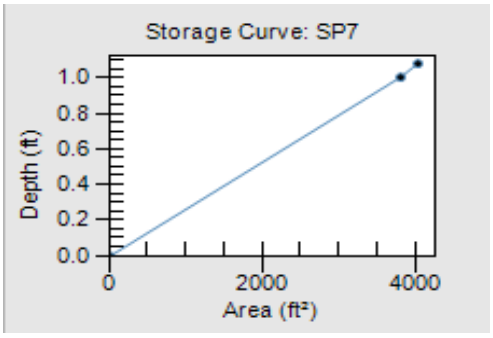














ghd.com

→ The Power of Commitment

Technical Memorandum

April 28, 2026

To	Eric Wier, PE	**Contact No.**	(707)267-2238
Copy to	David Yeager	**Email**	Patrick.Sullivan@ghd.com
From	Patrick Sullivan	**Project No.**	12588710
Project Name	Crescent City Storm Drain Master Plan		
Subject	Extreme Event October 13, 2025, Analysis		

1. Introduction

On October 13th, 2025, Crescent City was impacted by an extreme weather event that tested the capacity and resilience of its storm drain infrastructure. This event highlighted vulnerabilities within the existing system and underscored the importance of ongoing assessment and planning to mitigate future risks.

1.1 Purpose of this Memorandum

The purpose of this memorandum is to evaluate the Crescent City October 13th, 2025, extreme rainfall event to determine the recurrence interval and evaluate the performance of City's storm drain system under existing, base, and proposed conditions (as outlined the City's Storm Drain Master Plan).

1.2 Scope and limitations

This technical memorandum has been prepared by GHD for City Of Crescent City. It is not prepared as, and is not represented to be, a deliverable suitable for reliance by any person for any purpose. It is not intended for circulation or incorporation into other documents. The matters discussed in this memorandum are limited to those specifically detailed in the memorandum and are subject to any limitations or assumptions specially set out.

2. Extreme Event Recurrence Interval

The Crescent City extreme rainfall event on October 13th, 2025, commenced at approximately 2:30 AM. The most severe precipitation occurred between 3:00 AM and 5:30 AM, placing considerable stress on the stormwater drainage infrastructure. Precipitation persisted at lower intensity until about 8:00 AM. This event resulted in immediate flooding throughout downtown Crescent City. Resident observations indicated that the heaviest rainfall was highly localized to the downtown area, with markedly reduced intensity just a few miles away. According to data from the National Oceanic and Atmospheric Administration (NOAA) weather station at Jack McNamara Field, located roughly two miles from downtown, 1.68 inches of rain were recorded on October 13th, 2025.

This Technical Memorandum is provided as an interim output under our agreement with City Of Crescent City. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

To supplement this information, the City collected additional rainfall data via Weather Underground, a commercial service providing real-time, hyper-local weather reports based on a network of personal weather stations (PWS). Data from Station KCACRESC155 at 1405 Harrold St., Crescent City, recorded rainfall at five-minute intervals, totalling 2.89 inches for the event. A graph depicting rainfall intensity and cumulative accumulation is presented in Figure 1; the blue line represents rainfall intensity while the orange line indicates total accumulation. Analysis of this plot shows that 96% of the total precipitation occurred within a three-hour window, with 100% falling within six hours.

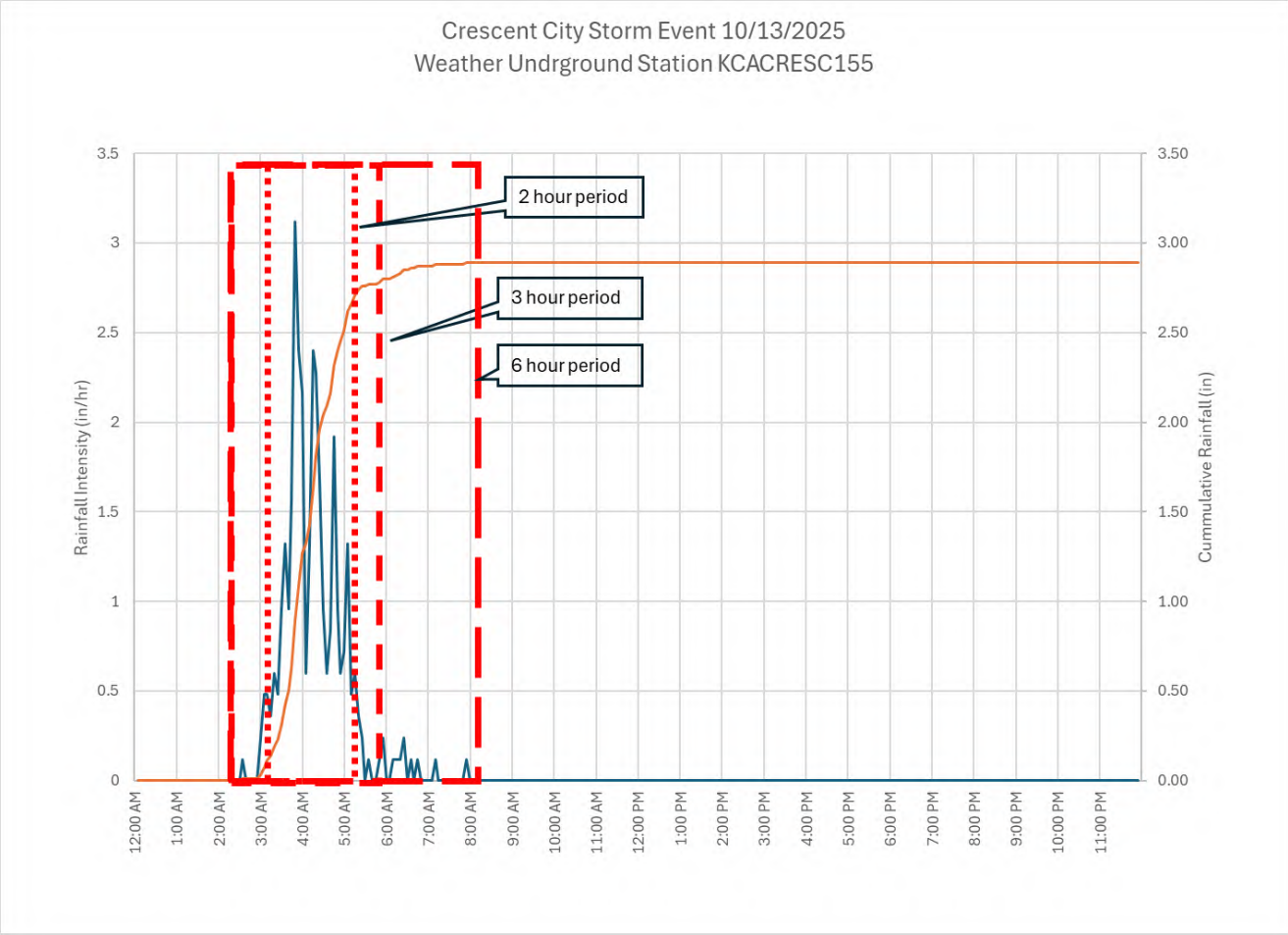


Figure 1 ***Rainfall Intensity and Cumulative Plot, Crescent City October 13, 2025***

The return period, or recurrence interval, measures how often a specific rainfall event occurs on average, calculated using historical rainfall data. NOAA's Precipitation-Frequency Atlas offers location-specific precipitation frequency estimates for different intervals and storm durations. For Crescent City, 2-hour, 3-hour and 6-hour precipitation frequency values were used to estimate the return period of a recent rain event. Precipitation frequency plots (Figure 2, Figure 3, and Figure 4) display the estimate along with 90% confidence intervals; the return period is found where the observed rainfall crosses these plots. Based on the rainfall data presented in Figure 1 and NOAA data, the estimated return period for the October 13, 2025, Crescent City storm was 210 years for the 2-hour event, 87 years for a 3-hour event, and 7 years for a 6-hour event.

Table 1 *Return Period Estimates for October 13, 2025, Storm Event*

Storm Duration	Precipitation (in)	Return Period (yr)	Lower 90% Confidence (yr)	Upper 90% Confidence (yr)
2-hr	2.57	210	48	--
3-hr	2.79	87	25	--
6-hr	2.89	7	4	20

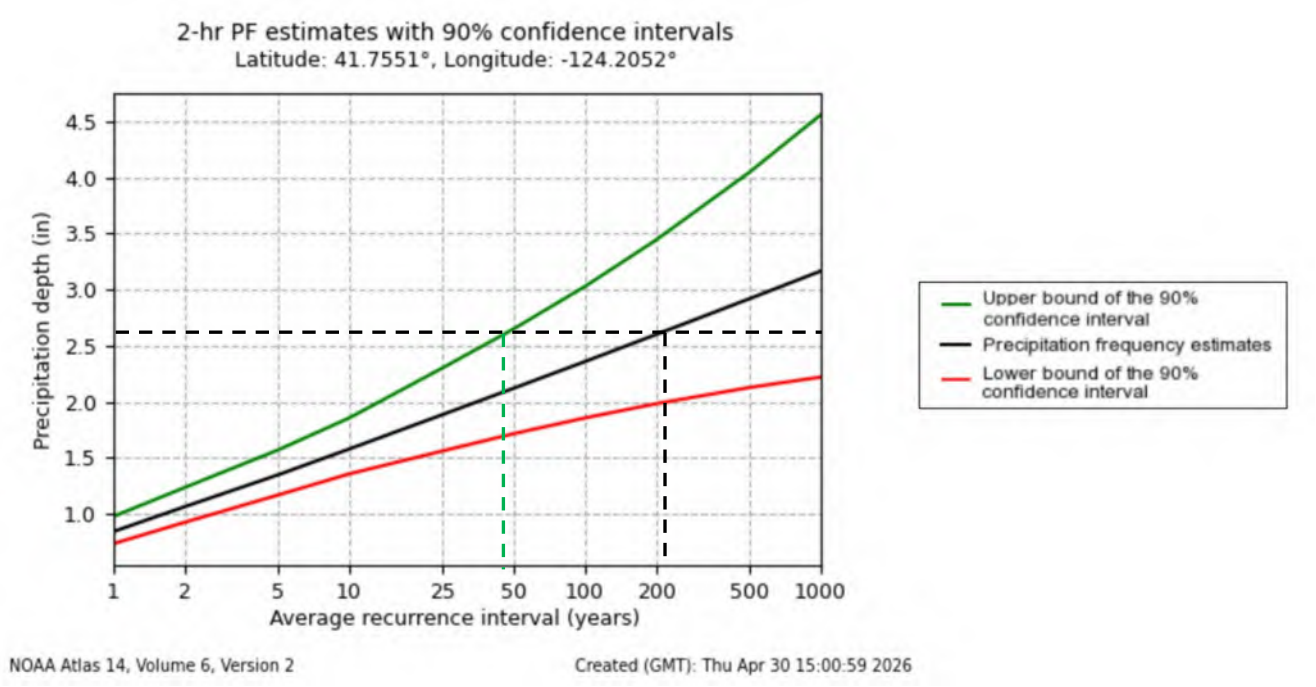


Figure 2 *NOAA 2-hr Precipitation Frequency Estimate for Crescent City*

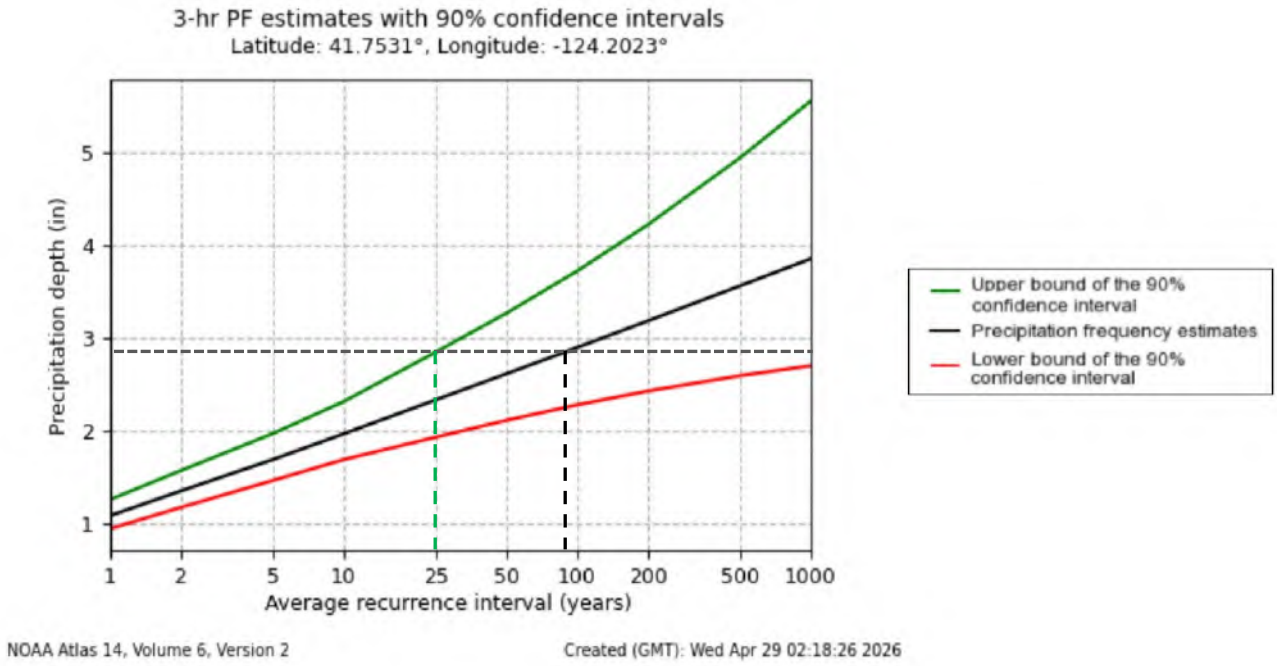


Figure 3 *NOAA 3-hr Precipitation Frequency Estimate for Crescent City*

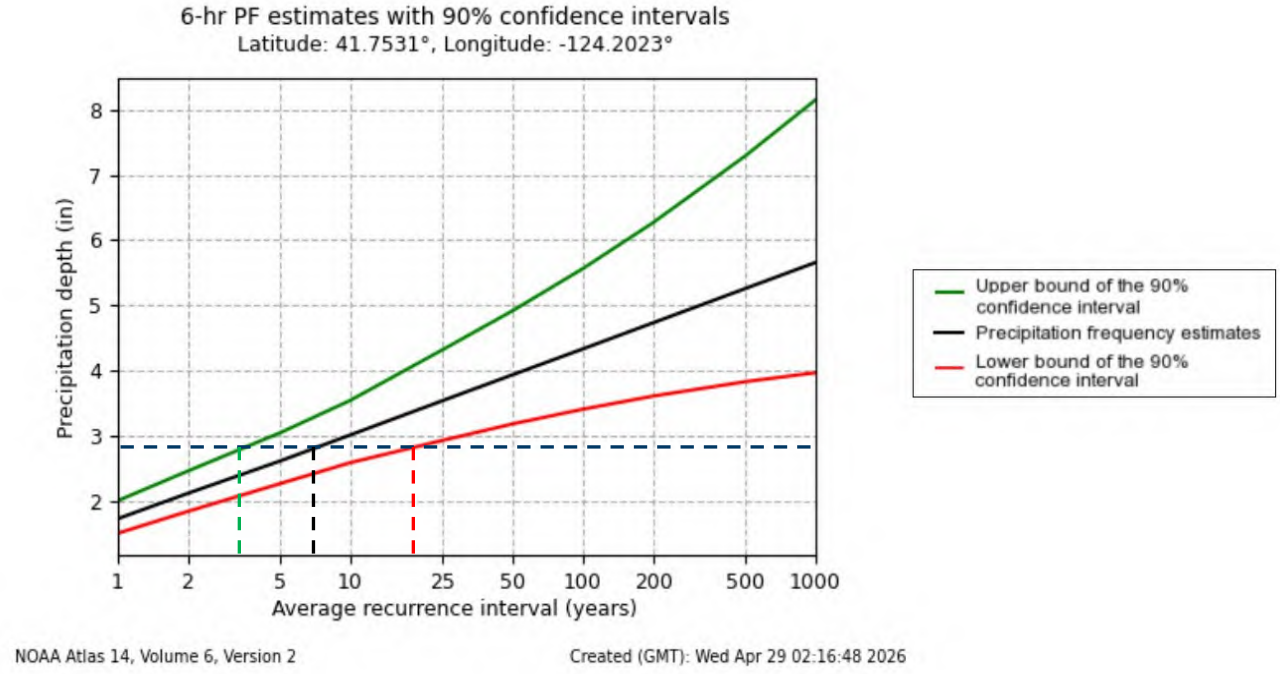


Figure 4 *NOAA 6-hr Precipitation Frequency Estimate for Crescent City*

3. Flooding Assessment

Crescent City is in the process of developing Storm Drain Master Plan (SDMP), which is a document that analyzes a City's existing stormwater infrastructure to identify flooding risks, assess pipe conditions, and plan for future capacity needs. It serves as a roadmap for identifying deficiencies, prioritizing repairs, upgrading systems to meet regulatory standards, and directing capital improvement projects. As part of this process a computation stormwater model, PC-SWMM, was developed. The model simulates stormwater runoff and movement through the City and the City's storm drain system. The stormwater model simulates selected rainfall events with various return periods (2-yr 24-hr, 10-yr 24-hr, and 50-yr 24-hr) and stormwater flow through drainage infrastructure (pipes, ditches, culverts) and over the ground surface. It quantifies stormwater flow, volume, velocity, and flooding/inundation extents. It is used to identify deficiencies in the existing system and assess potential improvement projects. Several different storm drain model scenarios were developed:

- Existing conditions – this model scenario represents the storm drain system at the time of the extreme rainfall event
- Base conditions – this model scenario is similar to the existing conditions model, but it includes several storm drain improvement projects that are already design and construction scheduled. This scenario was used in the SDMP as the base condition for deficiency analysis and comparison assessment of proposed projects
- Proposed conditions – this model scenario simulates the proposed drainage improvement projects that are recommended in the SDMP

The model development and parameterization process is extensively documented the City's Storm Drain Master Plan (GHD 2023) and included in Appendix A.

The assessment of the October 13th extreme event uses the model scenarios to quantify and compare the resulting flooding under each scenario. The model will use the observed rainfall pattern, shown in Figure 1, and observed tidal conditions to access each scenario. The tide data was obtained from NOAA Tides and Currents (Crescent City, CA 9419750) for October 13, 2025, and is shown graphically in Figure 5.

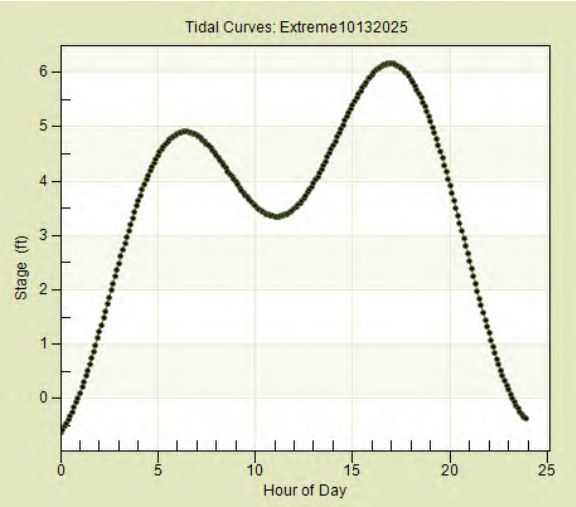


Figure 5 Crescent City (9419750) Tides October 13, 2025

The flooding impacts are evaluated by updating model scenarios to simulate rainfall and tides on October 13, 2025. The extents of flooding under existing conditions are used to identify key locations. Flooding volumes under each scenario are calculated and volumes are compared across scenarios to assess differences.

3.1 Key Flooding Locations

The city staff indicated two regions where flooding damage occurred or was documented. These regions were identified as Key flooding locations and are shown in Figure 6. The western location encompassed flooding from 4th St. to 7th St. between C St. and G St. The eastern location encompassed flooding from Front St. to 4th St. between H St. and N St.

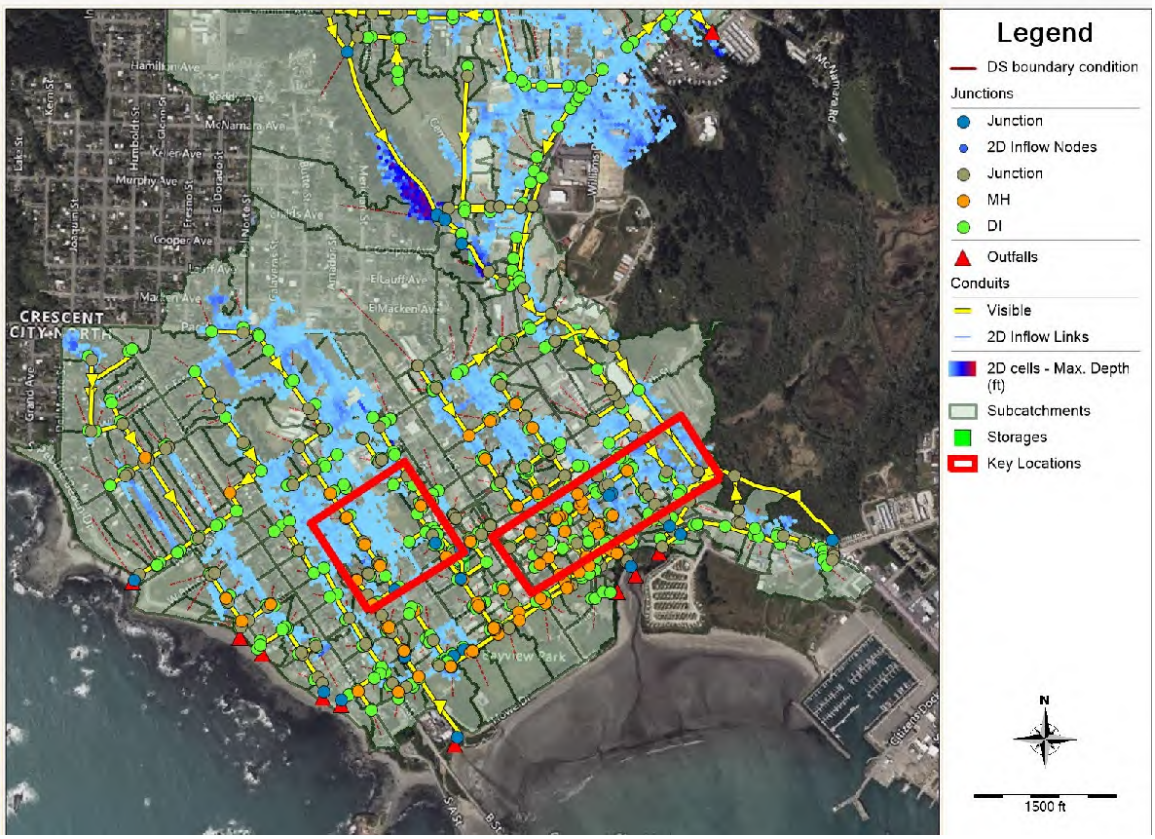


Figure 6 Key Flooding Locations, Extreme Event October 13, 2025

3.2 Flooding Volume Estimates

The three modeling scenarios were run with the rainfall and tidal conditions for October 13, 2025. The resulting flooding within the key locations was calculated and presented in Table 2. There were minimal differences between the existing and base condition models.

Table 2 Model Scenario Flooding Summary

Model Scenario	Flooding Volume West (MG)	Flooding Volume East (MG)	Flooding Volume Total (MG)	Flooding Difference (MG)
Existing Conditions	1.687	1.924	3.611	--
Base Conditions	1.687	1.929	3.616	0.005
Proposed Conditions	0.132	0.455	0.587	3.024

The proposed condition model demonstrated considerable improvement over the existing and base conditions. The proposed condition modeled flooding extents are shown in Figure 7.

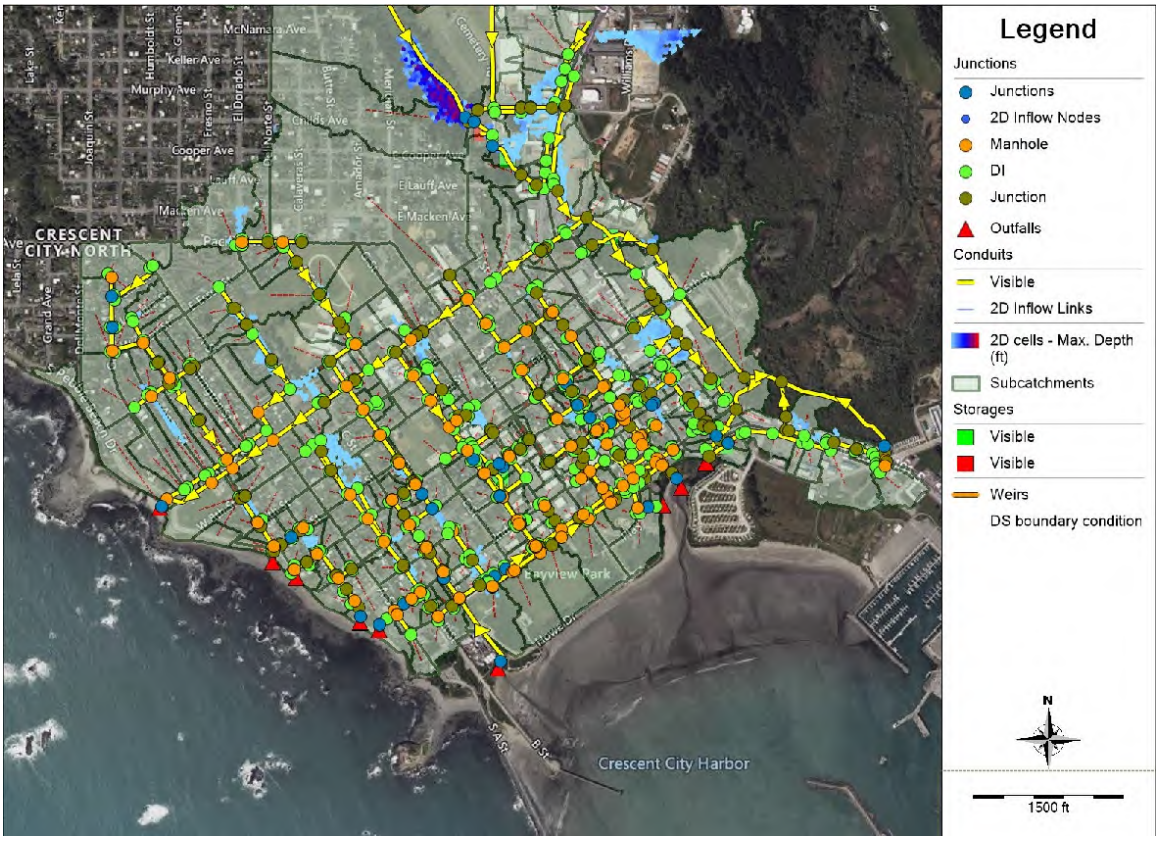


Figure 7 *Proposed Condition Scenario Flooding with Extreme Event Rainfall and Tides*

4. Conclusion

This memorandum summarises an analysis of the Crescent City extreme rain event that occurred on 13/10/2025. An evaluation of the available precipitation data revealed a significant discrepancy in rainfall intensity across the region. Several rain gauges near Crescent City were assessed, and precipitation amounts varied considerably, which suggests that a small but intense rainstorm struck the city. A privately owned weather station recorded rainfall data at five-minute intervals, indicating that 2.89 inches of rain fell in less than six hours, with 2.7 inches occurring within three hours. This observation confirms that the storm was a three-hour event, and therefore the six-hour return period estimate is not representative of this occurrence. NOAA precipitation frequency predictions for Crescent City were used to estimate the return period, resulting in an 87-year return period. However, the upper and lower confidence intervals were inconclusive, due to the limited period of record for high intensity three-hour storm events. However, within the 3-hour period there was a higher intensity 2-hour period with 2.57 inches of rain fell. The return period for the 2-hour period was 210 years. This estimate was also inconclusive, due to the limited period of record.

Hydrologic modelling was performed using rainfall data from local gauges to simulate runoff and assess storm drain performance under both existing and proposed conditions. The effects of the high intensity rainfall event were used to evaluate flooding associated with the City's existing storm drain system and the proposed conditions recommended in the City's SDMP. There was minimal difference in flooding between the current storm drain system and the base conditions that include scheduled improvements. Performance under the proposed SDMP improvements indicated substantial enhancements in storm drain system effectiveness.

CITY COUNCIL AGENDA REPORT

TO: **MAYOR WRIGHT AND MEMBERS OF THE CITY COUNCIL**

FROM: **ERIC WIER, CITY MANAGER**

BY: **ROBIN ALTMAN, CITY CLERK/ADMINISTRATIVE ANALYST**

DATE: **JUNE 15, 2026**

SUBJECT: **AD HOC COMMITTEE APPOINTMENTS**

RECOMMENDATION

- Hear staff report
- Technical questions from the Council
- Receive public comment
- Further Council discussion
- Mayor to appoint and Council to confirm the appointment of two Council Members to each of the following ad hoc committees: the Lighthouse Cove RV Park ad hoc committee, the Fred Endert Municipal Pool ad hoc committee, Planning Fees ad hoc committee, and Beachfront Park ad hoc committee

BACKGROUND

The City is preparing to make updates to the Master Fee Schedule. As part of that update, staff recommend reviewing current fees and adding new fees for new facilities. Council input will be helpful in that process. When establishing committees, the process is for the Mayor to appoint and the Council to confirm those appointments.

ANALYSIS

Staff recommend the creation of the following ad hoc committees:

- Lighthouse Cove RV Park: recommend rental fees (incl. new cabins / apartment)
- Fred Endert Municipal Pool: recommend facility use and rental fees
- Planning Fees: recommendation on fees for planning department (permits, etc.)
- Beachfront Park: recommendation on facility use fees at park

These ad hoc committees will make recommendations on appropriate fees, which will be brought back to the Council in the revised master fee schedule.

ATTACHMENTS - None