

AGENDA

**REGULAR MEETING
PARADISE IRRIGATION DISTRICT
BOARD OF DIRECTORS
MEETING LOCATION:
PID BOARD ROOM
6332 CLARK ROAD, PARADISE, CA 95969**

WEDNESDAY, DECEMBER 18, 2019 – 6:30 PM

- ❖ *The Board of Directors is committed to making its meetings accessible to all citizens. Any persons requiring a special accommodation to participate, is requested to contact the District Secretary at 530-877-4971, extension 2039 at least 48 hours in advance of the meeting.*
 - ❖ *The Board of Directors or its President pursuant to Government Code section 54954.3 reserves the right to impose reasonable regulations governing public participation on agenda and non-agenda items, including limiting the total amount of time allocated to public testimony on particular issues and for each individual speaker.*
1. **OPENING:**
 - a. Call to Order
 - b. Public & Board Members; please silence your cell phones
 - c. Invocation and Pledge of Allegiance
 - d. Roll Call
 2. **CLOSED SESSION:**
 - a. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION (Paragraph (a) of subdivision (d) of Government Code section 54956.9): Neil Essila et al v. Paradise Irrigation District et al. Butte County Superior Court Case No. 17CV02546.
 3. **APPROVAL OF CONSENT CALENDAR:** *Action may be taken.*
 - a. Approval of Meeting Agenda Order
 - b. Approval of Minutes:
 1. Special Meeting of November 20, 2019
 2. Regular Meeting of November 20, 2019
 4. **PUBLIC PARTICIPATION:**

Individuals will be given an opportunity to address the Board regarding matters not scheduled on the agenda, although the Board cannot take action on any matter not on the agenda. Comments will be limited to 5 minutes per speaker. Opportunity for public comment on agenda items will be provided at the time they are discussed by the Board with comments limited to 5 minutes per agenda item.
 5. **ELECTION AND APPOINTMENT OF OFFICERS FOR 2020.** *Action may be taken.*
 - a. Election:
 1. President
 2. Vice President
 - b. Appointment
 1. Treasurer
 2. Secretary
 6. **RECOVERY PROCESS STATUS UPDATE:** Information update provided by Michael Lindquist and Colleen Boak with Water Works Engineers. *Information item only.*
 7. **DISTRICT MANAGER / STAFF AND FACILITY REPORT UPDATE FOR NOVEMBER 2019:** A verbal report by Manager Phillips. *Information item only.*

8. Notice of Proposed Settlement of Class Action and Final Fairness Hearing in the matter of Neil Essila, et al. v. Paradise Irrigation District, et al; A class action settlement involving FTJ Fundchoice, LLC, Dean Cook, and Richard Mootz will provide cash deposits and non-monetary relief to participants and beneficiaries of the 401(a) and 457(b) retirement plans of Paradise Irrigation District who qualify as class members. *Information item only; no action will be taken.*
9. **TREASURER'S REPORT:** Review and acceptance of the Treasurer's Report for the period ending November 30, 2019. *Action may be taken.*
10. **EXPENSE APPROVAL REPORT:** Approval of General Fund Check Numbers 54034 through 54231 for the month of November 2019 totaling \$1,124,118.63, exclusive of voided check numbers 54089, 54090, 54174, 54229, and 54230, and authorization of a similar amount allowing or adjusting for extraordinary budget or Board approved items during the month of December. *Action may be taken.*
11. **LEGAL REPORT:** A verbal update from Legal Counsel. *Information item only.*
12. **COMMITTEE REPORTS:** *Information Item Only.*
Board oral report(s) regarding their representation on Commissions/Committees/Conferences:
 1. Town/PID Liaison Committee (Directors Sulik & Boston (G. Mowers for Director Boston)
 2. Community Relations Committee (Directors Boston & Sulik)
13. **UNFINISHED BUSINESS:**
 - a. PID Commercial Property – 6360 Clark Road, Paradise (Manager Phillips / Ross Gilb): Review and provide direction regarding current real estate market rentals. *Action may be taken.*
14. **NEW BUSINESS:**
 - a. Butte County Local Hazard Mitigation Plan (Manager Phillips): Adopt Resolution No. 2019-09 for acceptance of the the Butte County Local Hazard Mitigation Annex into Butte County Hazard Mitigation Plan. *Action may be taken.*
 - b. Professional Engineering Services – Magalia and Paradise Dam Field Evaluations for Fire Damage and Safety, and Surveying of Dams (Manager Phillips / WTP Superintendent Bill Taylor): Approve proposal and authorize the District Manager to execute an agreement with Genterra Consultants, Inc. to provide professional engineering services for the years of 2019 and 2020 for a cost not to exceed \$29,960.00. *Action may be taken.*
 - c. District Organization: Director Kellogg to present idea for discussion regarding the organization of Paradise Irrigation District. *Information Item Only.*
15. **DIRECTORS' COMMENTS:** *Information Item Only.*
16. **RECESS as the Paradise Irrigation District Board of Directors and convene as the Paradise Irrigation District Public Facilities Financing Corporation (PFFC) Board. PFFC Agenda included (see page after Consent Calendar).**

**CONTINUED – PARADISE IRRIGATION DISTRICT BOARD OF DIRECTORS REGULAR MEETING
DECEMBER 18, 2019**

17. **CLOSED SESSION:**
 - a. PUBLIC EMPLOYEE PERFORMANCE EVALUATION (California Government Code section 54957). District Manager.
 - b. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION (California Government Code section 54956.9). Paradise Irrigation District v. Pacific Gas & Electric.
18. **ANNOUNCEMENT FROM CLOSED SESSION**

19. OPEN SESSION:

- a. **District Manager Position:** Consider compensation adjustments for the District Manager.
Action may be taken.

20. ADJOURNMENT

CONSENT CALENDAR
REGULAR MEETING
PARADISE IRRIGATION DISTRICT
BOARD OF DIRECTORS

WEDNESDAY, DECEMBER 20, 2019

A. APPROVAL OF MEETING AGENDA ORDER

B. APPROVAL OF MINUTES:

1. Special Meeting of November 20, 2019
2. Regular Meeting of November 20, 2019



PARADISE IRRIGATION DISTRICT

6332 Clark Road, Paradise CA 95969 | Phone (530)877-4971 | Fax (530)876-0483

AGENDA

**ANNUAL MEETING OF THE
BOARD OF DIRECTORS
PARADISE IRRIGATION DISTRICT
PUBLIC FACILITIES FINANCING CORPORATION
6332 CLARK ROAD, PARADISE, CA 95969**

WEDNESDAY, DECEMBER 18, 2019

1. OPENING
 - a. Call to Order
 - b. Roll Call

2. APPROVAL OF MINUTES
 - a. Approval of Minutes: February 20, 2019 Annual Meeting of the Public Facilities Financing Corporation

3. PUBLIC PARTICIPATION

Members of the audience will be given an opportunity to present items not scheduled on the agenda. No action can be taken on these items, but they may be placed on future agendas for consideration. Comments should be limited to a maximum of five minutes duration. Opportunity for public comment on agenda items will be provided at the time they are discussed by the Board with comments limited to 5 minutes per item.

4. DISCUSSION: Public Facilities Financing Corporation – Organization, Purpose, and Use of Funds (Manager Phillips). *Information item only.*

5. ADJOURNMENT
 - a. Adjourn as the Public Facilities Financing Corporation and convene as the Paradise Irrigation District Board of Directors.

MINUTES
SPECIAL MEETING
BOARD OF DIRECTORS
PARADISE IRRIGATION DISTRICT
NOVEMBER 20, 2019

The special meeting of the Board of Directors of the Paradise Irrigation District was called to order at 5:30 p.m. by President Marc Sulik. OPENING

BOARD MEMBERS PRESENT: Directors Dan Hansen, Gregg Mowers, Vice-President Shelby Boston, and President Marc Sulik ROLL CALL

BOARD MEMBERS ABSENT: Director Bill Kellogg

STAFF PRESENT: District Manager Kevin Phillips, Finance & Accounting Manager Ross Gilb, and Secretary Georgeanna Borryo

ALSO PRESENT: PID Legal Counsel Tony Soares

No members of the public were present.

PUBLIC
PARTICIPATION
(Item 2)

President Sulik announced closed session item 3.a. As there were no public comments, the Board adjourned to closed session at 5:31 p.m. regarding the following: CLOSED SESSION
(Item 3.a.)

3.a. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION (California Government Code section 54956.9). Paradise Irrigation District v. Pacific Gas & Electric.

President Sulik reconvened the special meeting at 6:30 p.m. and announced direction has been given to Legal Counsel regarding closed session item 3.a. above. CLOSED SESSION
ANNOUNCEMENT

It was moved by President Sulik to adjourn the meeting. The special meeting was adjourned at 6:31 p.m. ADJOURNMENT

Georgeanna Borryo, Secretary

Shelby Boston, Vice President

MINUTES

REGULAR MEETING
BOARD OF DIRECTORS
PARADISE IRRIGATION DISTRICT
NOVEMBER 20, 2019

The regular meeting of the Board of Directors of the Paradise Irrigation District was called to order at 6:32 p.m. by President Marc Sulik, followed by a moment of silence and the Pledge of Allegiance to the Flag of the United States of America.

OPENING

BOARD MEMBERS PRESENT: Directors Dan Hansen, Gregg Mowers, Vice-President Shelby Boston, and President Marc Sulik

ROLL CALL

BOARD MEMBERS ABSENT: Director Bill Kellogg

STAFF PRESENT: District Manager Kevin Phillips, Finance & Accounting Manager Ross Gilb, and Secretary Georgeanna Borrayo

ALSO PRESENT: Member of the public

Board members reviewed consent calendar items as follows:

APPROVAL OF
CONSENT
CALENDAR
(Item 2.a., 2.b., &
2.c.)

- 2.a. Approval of Meeting Agenda Order
- 2.b. Approval of Minutes: Regular Meeting of October 16, 2019
Special Meeting of October 23, 2019
- 2.c. Approval of Employee Safety Awards Event & Closure of Office & Corp. Yard at 1:00 p.m. on December 12 or 19

A correction to page two of the October 16, 2019 Minutes was noted by the Secretary. The date for the next Community Information Meeting was noted incorrectly. The correct date is November 18, 2019. It was moved by Director Boston and seconded by Director Mowers to approve the Consent Calendar with amendment to the October 16, 2019 Minutes.

AYES: Directors Hansen, Boston, Mowers, and Sulik
NOES: None
ABSENT: Director Kellogg

Motion passes 4-0

No public comments were presented.

PUBLIC
PARTICIPATION
(Item 3)

Manager Phillips provided an overview of information highlighted in a written District Manager's Report. Additional information reported included the following:

PID STAFF &
FACILITY REPORT
UPDATE FOR
OCTOBER 2019
(Item 4)

Water Supply Recovery Program: Almost half of the standing structures in the PID service are have had the Water Quality Advisory lifted. The current plan is to have the remainder tested by March 2020. In reference to the Service Lateral Replacement Program, the District is working with the Town of Paradise on the priority list for replacements to support rebuilding in a timely fashion. The current total priority backlog for rebuilds is approaching 180.

CONTINUED – PID
STAFF & FACILITY
REPORT UPDATE

Reservoir B Replacement: Consultant Sami Kader has developed an interim storage plan to provide temporary Reservoir B volume until the reservoir replacement project is funded and constructed.

Long-Term Capital Projects:

Water Rights - Attorney Dustin Cooper is working with the District's Water Rights Engineers, Wagner & Bonsignore, regarding PID's water rights license and permit.

NPDES Permit Renewal – The District is in contact with the Regional Water Quality Control Board in Redding to revisit permit renewal discussions with regards to developing a National Pollutant Discharge Elimination System (NPDES) permit renewal approach.

TREASURER'S
REPORT ACCEPTED
PERIOD ENDING
OCTOBER 31, 2019
(Item 5)

Finance & Accounting Manager Ross Gilb reported as of October the District's cash position was up substantially following receipt of the State of California backfill funding allocation of \$7.3 million for fiscal year 2019-20. After revenues and expenses, the District's total cash position was \$8.9 million for the period ending October 31, 2019. From a debt service standpoint, the District has incurred debt service payments of \$422,456. The next debt service payments of the fiscal year are scheduled in April and May 2020.

It was moved by Director Boston and seconded by Director Hansen to accept the Treasurer's Report as presented for the period ending October 31, 2019.

AYES: Directors Hansen, Boston, Mowers, and Sulik

NOES: None

ABSENT: Director Kellogg

Motion passes 4-0

APPROVAL OF
EXPENSE REPORT
FOR THE MONTH OF
OCTOBER 2019
(Item 6)

Board members reviewed accounts payable expense reports for the month of October 2019. It was moved by Director Boston and seconded by Director Mowers to approve General Fund Check Numbers 53901 through 54033 for the month of October 2019 totaling \$887,141.88, exclusive of voided check numbers 53968, 53999, 54004, 54009, 54010, 54020, and 54033, and authorization of a similar amount allowing or adjusting for extraordinary budget or Board approved items during the month of November.

AYES: Directors Hansen, Boston, Mowers, and Sulik

NOES: None

ABSENT: Director Kellogg

Motion passes 4-0

COMMITTEE
REPORTS
(Item 7.1)

Paradise Lake & Recreation Committee: Director Mowers and Sulik reported discussion at the November 18 committee meeting included an update regarding the proposed agreement between PID and the Paradise Recreation & Park District regarding recreation at Paradise Lake. Further information will be reported under new business item 9.a.

NEW BUSINESS:

DRAFT LEASE
AGREEMENT WITH
PARADISE
RECREATION &
PARK DISTRICT
(Item 9.a.)

Manager Phillips reported a meeting was held with the Paradise Recreation & Park District (PRPD) to discuss a draft agreement in reference to turning over management and oversight of recreation at Paradise Lake to PRPD. A Lease Agreement is being developed as opposed to a Memorandum of Understanding, which will allow greater flexibility for future changes. The Draft Agreement is currently in legal review. Upon completion of legal review, it may be beneficial to hold a special meeting to review the draft agreement prior to final consideration to approve. No action taken; agenda item tabled until completion of legal review.

Manager Phillips discussed the signed Memorandum of Understanding with Butte County and Cal Water to conduct the Intertie Feasibility Study, which was in progress. This matter was brought back for further discussion by the Butte County Board of Supervisors in November and the necessary votes were not received to continue this matter forward. The County is hosting a water workshop on December 17 and Supervisors Lucero and Ritter are scheduled to meet with Manager Phillips on December 13 to tour PID's watershed. Assemblyman James Gallagher is seeking funds to pay for the feasibility study outside of county funding. **Informational update provided; no Board action taken.**

RIDGE/VALLEY
INTERTIE
FEASIBILITY
STUDY
(Item 9.b.)

Manager Phillips reported the District received a 30-day notice from the current tenant confirming plans to vacate the property located at 6360 Clark Road by December 1, 2019. Following discussion regarding potential options, direction was given to staff to obtain current market information for commercial rentals and market value to sell, as well as expenses to retain this property. Requested information will be prepared and brought back to the Board for further discussion and consideration.

PID COMMERCIAL
PROPERTY – 6360
CLARK ROAD
(Item 9.c.)

At the October 23, 2019 special Board of Directors meeting, Board members discussed the Employee Assistance Program and available services to employees. Direction was given to staff to coordinate arrangements for a counselor to speak with employees.

EMPLOYEE
ASSISTANCE
PROGRAM
UPDATE
(Item 9.d.)

Manager Phillips confirmed a counselor was onsite November 12th and provided a presentation to all employees followed by an opportunity for individual employee sessions. Arrangements have been made for the counselor to return on December 3rd. Directors suggested conducting one or two sessions offsite. **Informational update provided; no Board action taken.**

Staff reported on October 10, 2019, the District received a claim for water damages from a customer for their home located on Wirths Way in Paradise. The District, as a public entity, is bound by certain Government Code regulations relating to claims. The claim will be forwarded to ACWA Joint Powers Insurance Authority for processing; however, the JPIA cannot process the claim unless the District has formally "rejected" the claim at its level.

LETTER OF MERIT
REJECTION –
CLAIM FOR
WATER DAMAGES
ACWA-JPIA CLAIM
NO. 20-0359
(Item 9.e.)

It was moved by Directors Mowers and seconded by Director Hansen to reject the claim for water damages recorded as ACWA-JPIA Claim Number 20-0359 and approve the letter of merit rejection for submittal to ACWA Joint Powers Insurance Authority to process and respond to the Claim.

AYES: Directors Hansen, Boston, Mowers, and Sulik
NOES: None
ABSENT: Director Kellogg

Motion passes 4-0

Director Boston: Requested the secretary notify the directors when the date is confirmed for the PID Safety Awards & Recognition luncheon.

DIRECTORS'
COMMENTS
(Item 10)

Director Mowers: Commented on respecting the opinion of others and the importance of being respectful to one another.

President Sulik announced closed session item 11.a. As there were no public comments, the Board adjourned to closed session at 7:36 p.m. regarding the following:

CLOSED SESSION
(Item 11.a.)

11.a. CONFERENCE WITH LABOR NEGOTIATORS (California Government Code section 54957.6).

Agency designated representative – Emily LaMoe. Negotiations with Teamsters Local 137.

CLOSED SESSION
ANNOUNCEMENT

President Sulik reconvened the regular meeting at 7:39 p.m. and announced direction has been given to the labor negotiator in reference to closed session item 11.a. – Conference with Labor Negotiators.

ADJOURNMENT

It was moved by President Sulik to adjourn the meeting. The regular meeting was adjourned at 7:40 p.m.

Georgeanna Borrayo, Secretary

Marc Sulik, President

PENDING BOARD APPROVAL



PARADISE IRRIGATION DISTRICT

DATE: December 13, 2019

TO: Board of Directors

FROM: Kevin Phillips, District Manager
Georgeanna Borrayo, District Secretary

RE: Election and Appointment of Officers for 2020
12/18/19 Board of Directors Meeting

The following is information from the Paradise Irrigation District Policy & Procedures Manual – Chapter 2.7 regarding election and appointment of officers, which occurs in December.

2.7 QUALIFICATIONS; OFFICER ELECTION AND TERM OF OFFICE

A. Election –

At the first meeting after noon on the first Friday of December the Board shall choose one of its members as President and shall choose another of its members as Vice-President. Nominations shall come from the Board members. The Board shall also appoint a Secretary of the Board and a Treasurer of the District.

B. Term –

The officers shall serve until the next Annual Meeting. The President and Vice-President shall not serve in their respective positions for more than two consecutive one-year terms.



Paradise Irrigation District

6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

1. **Cash Position** – At 11/30/2019 the District's total cash position was \$7,816,784.
2. **Debt Service Analysis**
 - a. Through 11/30/2019 the District has incurred debt service payments of \$422,456. The next debt service payments of the fiscal year are due 04/01/20 and 05/01/20 in the amounts of \$296,353 and \$122,914, respectively. The total annual budgeted debt service is \$841,723.
 - b. The District's total outstanding debt is \$5,879,945.
 - i. IBank \$1,035,645
 - ii. Capital One \$2,059,000
 - iii. BB&T \$2,785,300
3. **Operational Overview and Highlights – FY 2019/20**
 - a. The District is not charging consumption fees due to the damage to the District's distribution system. Customers with non-potable service continue to be charged the readiness to serve charge of \$21.49 per month. As customers are cleared for potable service, they will return to the standard service charge based on the size of their service line/meter.
 - b. Through 11/30/19 the District has processed 2,029 customer requests to permanently disconnect services.
 - c. The District is collecting fees for Interim Water Supply installation. Through 11/30/19 the District has processed 1,402 total requests for Interim Water Supply and has collected \$496,497 in related fees for the current fiscal year.
 - d. The District is collecting service fees for Residential Fire Flow testing. Through 11/30/19 the District has processed 439 requests for Residential Fire Flow testing and has collected \$39,965 in related fees.
 - e. The District has made a request to the State of California for a budget allocation of \$21 million dollars to help bridge the gap for three years for the loss of revenue due to the Camp Fire. Based on this initial request, the State of California has allocated a total of \$14,748,660 to PID for loss of revenue for fiscal year 2019-20 and 2020-21, contingent on the District's participation in a feasibility study to examine the possibility of consolidating the District's operations with one or more neighboring water districts. The District has received \$7,374,330 for the loss of revenue funding for FY 2019-20. The funding for FY 2020-21 (\$7,374,330) will be available after June 30, 2020.
 - f. The District continues to work with the State of California, FEMA, and insurance to fund the recovery of the District distribution system.
 - g. Total expenditures are within budgeted expectations for the fiscal year ending 06/30/20. The District cannot substantially reduce operational cost as the majority of the District's expenses are fixed.

Paradise Irrigation District
November 30, 2019
Financial Summary

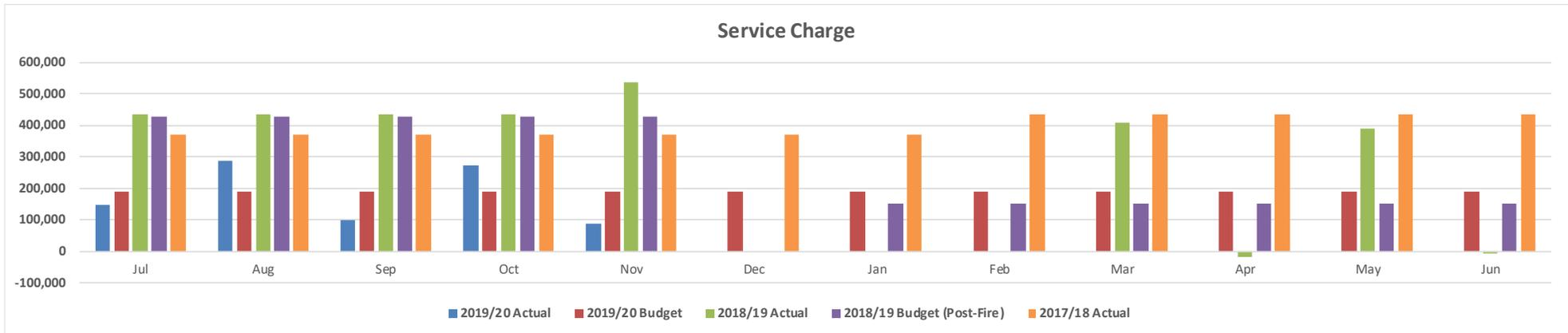
	2018/19 Actual	2019/20 Budget	2019/20 Actual
REVENUES:			
Water Sales	5,365,105	2,301,554	899,259
Outside Water Sales	68,689	-	-
Other	652,634	719,240	557,911
Interest	12,760	60,000	42,151
Taxes - 1%	286,826	270,000	35,746
FMV Gain/Loss - Securities	1,031	-	17
Inc-Save-A-Can/Buy-A-Fish	747	-	-
Inc-Capacity Fees	35,008	-	8,752
Revenue - PFD	73,308	-	26,362
Total Revenue	6,496,107	3,350,794	1,570,198
EXPENDITURES:			
Operating	4,990,364	5,311,705	2,050,870
Pipeline	290,729	-	-
Debt Service	609,108	841,723	422,456
Save a Can	-	-	-
PFD	8,414	150,000	34,043
Total Expenditures	5,898,615	6,303,427	2,507,370
Increase/(Decrease) in Cash before Recovery, Debt Proceeds, and Capital Improvements	597,493	(2,952,633)	(937,172)
Debt Proceeds	-	-	-
Increase/(Decrease) in Cash before Recovery and Capital Improvements	597,493	(2,952,633)	(937,172)
FEMA Reimbursements	1,217,402	2,625,000	-
Insurance Proceeds	1,350,000	2,950,000	-
State Funding	-	7,000,000	7,374,330
Cash Available for Recovery/Capital Projects	2,567,402	12,575,000	7,374,330
Cash Available for Recovery/Capital Projects	3,164,895	9,622,367	6,437,158
Capital/Recovery Projects	(2,378,529)	(3,425,000)	(2,664,172)
Increase/(Decrease) in Cash	786,365	6,197,367	3,772,986
Beginning Cash Balance	3,257,432	4,043,797	4,043,797
Ending Cash Balance	4,043,797	10,241,164	7,816,784

Paradise Irrigation District
November 30, 2019
Revenue Summary

	FY 2016/17 Actual	FY 2017/18 Actual	FY 2018/19 Actual	FY 2019/20 Estimate	FY 2019/20 Actual
<i>General Fund/Operating</i>					
Water - Service	4,397,207	4,871,781	3,755,354	2,295,054	892,513
Water - Consumption	2,629,210	3,070,573	1,587,485	-	(738)
Water - Fees & Adjustments	43,355	49,298	22,266	6,500	7,484
Outside Water Sales	110,874	115,728	68,689	-	-
Meter Revenue	31,915	15,225	265,156	511,300	498,922
Recreation & Boating Permits	38,814	39,789	22,778	10,000	8,567
Backflow Check	10,940	10,960	20,527	4,000	480
Rents	17,095	15,740	9,392	15,180	4,784
Revenue - Surplus Property	24,737	17,481	273,233	-	-
Escrow Fees	-	-	-	5,000	-
Annexation	2,140	546	-	-	-
Custom Work/PFD Reimbursement	94,780	200,000	15,125	173,760	39,965
Misc	52,591	30,602	46,424	-	5,193
Interest	-	-	-	-	-
Total Operating Income	7,453,658	8,437,722	6,086,428	3,020,794	1,457,170
<i>Special Revenue Fund</i>					
Capital Improvement Program					
Taxes - 1%	259,213	271,960	286,826	270,000	35,746
\$1 Surcharge for Capital Projects	-	-	-	-	-
Interest	34,783	11,326	12,760	60,000	42,151
FMV Gain/Loss - Securities	187	(514)	1,031	-	17
Inc-Capacity Fees	57,262	39,414	35,008	-	8,752
RDA Reimbursement	-	-	-	-	-
Grant	-	-	-	-	-
Inc-Save-A-Can/Buy-A-Fish	6,622	8,351	747	-	-
Total Capital Improvement	358,067	330,538	336,371	330,000	86,665
<i>Debt Service Fund</i>					
Inc-Assessment Res (PID Share)	193,420	1,756	-	-	-
Interest	6,907	-	-	-	-
Total Debt Service	200,327	1,756	-	-	-
<i>Recovery Proceeds</i>					
State Backfill Funding	-	-	-	7,000,000	7,374,330
FEMA Reimbursements	-	-	1,217,402	2,625,000	-
Insurance Proceeds	-	-	1,350,000	2,950,000	-
Total Recovery Proceeds	-	-	2,567,402	12,575,000	7,374,330
<i>PFD</i>					
Revenue - PFD	122,794	124,037	73,308	-	26,362
PFD - Interest Income	-	-	-	-	-
Total PFD	122,794	124,037	73,308	-	26,362
Total Revenue	8,134,846	8,894,053	9,063,509	15,925,794	8,944,528

Paradise Irrigation District
November 30, 2019
Water Revenue

Service Charge													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Year to Date Totals
2019/20 Actual	146,492.90	286,941.77	98,612.10	272,780.57	87,685.70								892,513.04
2019/20 Budget	191,260.00	191,259.00	191,258.00	191,257.00	191,256.00	191,255.00	191,254.00	191,253.00	191,252.00	191,251.00	191,250.00	191,249.00	2,295,054.00
2018/19 Actual	436,392.90	436,643.38	436,273.95	436,719.47	537,251.36	-	-	-	410,683.57	(17,049.96)	391,672.04	(7,797.98)	3,060,788.73
2018/19 Budget (Post-Fire)	429,021.00	429,021.00	429,021.00	429,021.00	429,021.00	-	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	3,045,105.00
2017/18 Actual	370,414.10	371,213.98	370,772.40	371,237.20	370,130.18	371,681.00	371,421.01	436,336.33	436,122.75	436,034.97	435,797.15	435,718.87	4,776,879.94
2016/17 Actual	341,413.24	339,237.37	341,571.71	341,336.16	341,299.65	340,548.52	370,001.59	373,087.79	371,908.05	371,244.66	371,420.70	370,865.06	3,903,069.44



Paradise Irrigation District
November 30, 2019
Operational Expense Summary

	FY 2016/17 Actual	FY 2017/18 Actual	FY 2018/19 Actual	FY 2019/20 Estimate	FY 2019/20 Actual
Operational Summary					
Salary and Benefits	3,715,155	3,583,708	3,834,620	3,683,437	1,478,969
Materials and Supplies	669,902	641,180	568,531	787,100	340,904
Outside Services	358,722	442,291	216,443	442,120	116,093
Utilities	260,884	290,220	241,473	286,739	79,988
Insurance	86,488	111,642	107,607	94,909	34,916
Board	89,120	23,471	21,691	17,400	-
Total Operating Expense	5,180,270	5,092,511	4,990,364	5,311,705	2,050,870
	FY 2016/17 Actual	FY 2017/18 Actual	FY 2018/19 Actual	FY 2019/20 Estimate	FY 2019/20 Actual
Source of Supply					
Salary and Benefits	1,134	-	3,568	-	-
Materials and Supplies	58,344	55,247	29,461	26,500	-
Outside Services	8,387	9,138	3,926	7,070	28,740
Utilities	3,666	5,229	5,294	3,100	(125)
Insurance	800	492	-	-	-
Total Source and Supply	72,332	70,106	42,249	36,670	28,615
Security & Recreation					
Salary and Benefits	192,704	173,017	143,483	-	39,927
Materials and Supplies	1,237	1,494	554	4,200	-
Outside Services	5,450	1,427	1,925	4,350	-
Utilities	10,598	6,314	3,890	2,700	487
Insurance	2,486	1,530	-	1,565	-
Total Security & Recreation	212,474	183,781	149,851	12,815	40,414
Water Treatment					
Salary and Benefits	947,798	932,485	1,006,757	791,949	431,837
Materials and Supplies	191,014	183,223	196,599	231,900	36,658
Outside Services	22,381	23,262	29,931	71,250	13,563
Utilities	137,303	146,929	117,886	153,300	44,523
Insurance	19,773	12,168	-	17,740	-
Total Water Treatment	1,318,268	1,298,068	1,351,173	1,266,139	526,581
Transmission & Distribution					
Salary and Benefits	998,301	1,103,566	1,117,209	1,689,933	500,152
Materials and Supplies	176,836	191,972	168,200	289,500	207,926
Outside Services	23,688	21,988	18,567	34,900	10,084
Utilities	56,603	64,252	64,467	80,600	10,957
Insurance	16,048	9,876	-	26,778	-
Total Transmission and Distribution	1,271,476	1,391,655	1,368,444	2,121,712	729,120
Customer Service					
Salary and Benefits	448,304	453,206	467,799	341,606	147,287
Materials and Supplies	6,497	27	5,132	7,000	1,264
Outside Services	4,267	3,847	3,121	10,000	1,740
Insurance	5,991	3,687	-	11,936	-
Total Customer Service	465,059	460,766	476,051	370,542	150,291
Administration					
Salary and Benefits	1,126,914	921,433	1,095,804	859,948	359,766
Materials and Supplies	235,975	209,216	168,585	228,000	95,056
Outside Services	294,550	382,630	158,974	314,550	61,966
Utilities	52,714	67,496	49,935	47,039	24,147
Insurance	41,389	83,889	107,607	36,890	34,916
Board	89,120	23,471	21,691	17,400	-
Total Administration	1,840,661	1,688,136	1,602,596	1,503,826	575,849

Paradise Irrigation District
November 30, 2019
Debt Service

Loan Name	FY 2016/17 Actual Total Payments	FY 2017/18 Actual Total Payments	FY 2018/19 Actual Total Payments	FY 2019/20 Estimated Total Payments	FY 2019/20 Actual Total Payments
Davis Grunsky	182,743	-	-	-	-
IBANK	130,276	130,240	130,202	-	-
Private Placement Loan	-	-	-	-	-
2009 COP's	614,694	538,047	-	-	-
2016 Private Placement (Refi)	243,426	244,874	148,325	246,002	123,088
2017 Private Placement (Refi)	-	75,192	330,580	595,721	299,369
New Debt	-	-	-	-	-
Total	1,171,139	988,353	609,108	841,723	422,456

Paradise Irrigation District
November 30, 2019
Recovery Related Expenditures

Recovery Expenditure Projection

- Supplies and services consist of construction costs associated with repair of the distribution system. FY 2019/20 estimates are based on costs incurred during the prior year and expected costs to be incurred based on the current recovery plan.
- Professional Services/Engineering costs consist of professional services, engineering fees, mutual aid support, legal fees, and public assistance consulting fees. Year to date actual expenditures include approximately:
 - Smoke Cleaning Fees \$200,000
 - Mutual Aid Reimbursements \$584,100
 - Recovery Related Legal Fees \$ 67,200
 - Project Management Costs \$893,700
 - Public Assistance Consulting Fees \$ 59,700
- Water sampling costs are estimated based on the number of water samples expected to be completed during FY 2019/20.

	FY 2018/19 Actual	FY 2019/20 Estimate	FY 2019/20 Actual
<u>Materials and Supplies</u> Supplies and Services	714,209	750,000	663,497
<u>Outside Services</u> Professional Services/Engineering	1,309,242	2,425,000	1,804,688
Water Sampling	147,345	250,000	195,987
	2,170,796	3,425,000	2,664,172



Paradise Irrigation District

Expense Approval Report

By Vendor Name

Payment Dates 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
Vendor: 01022 - ACWA/JPIA					
11/21/2019	54165	Dental			1,864.34
11/21/2019	54165	Life			-641.15
11/21/2019	54165	EAP			18.80
11/21/2019	54165	Medical			40,394.88
11/21/2019	54165	Vision			626.51
11/21/2019	54165	Dental			1,753.07
11/21/2019	54165	Life			282.85
11/21/2019	54165	EAP			56.40
11/21/2019	54165	Medical			34,398.28
11/21/2019	54165	Vision			565.88
Vendor 01022 - ACWA/JPIA Total:					79,319.86
Vendor: 01023 - ACWA					
11/21/2019	54164	2020 Annual Agency Dues			19,640.00
Vendor 01023 - ACWA Total:					19,640.00
Vendor: 01024 - Adecco Employment Services					
11/04/2019	54034	Salaries - Direct			841.95
11/12/2019	54064	Salaries - Direct			868.56
11/12/2019	54064	Salaries- Direct			910.01
11/21/2019	54166	Salaries - Direct			344.96
11/21/2019	54166	Salaries - Direct			172.48
Vendor 01024 - Adecco Employment Services Total:					3,137.96
Vendor: 02957 - Aflac					
11/01/2019	DFT0003513	Montly Aflac Invoice			283.14
11/15/2019	DFT0003529	Montly Aflac Invoice			283.14
11/29/2019	DFT0003555	Montly Aflac Invoice			283.14
Vendor 02957 - Aflac Total:					849.42
Vendor: 03066 - Airgas USA, LLC					
11/21/2019	54167	Welding Supplies			549.67
Vendor 03066 - Airgas USA, LLC Total:					549.67
Vendor: 03077 - All Around Heating & Air					
11/21/2019	54168	Repairs - AC/Unit - Office			315.00
Vendor 03077 - All Around Heating & Air Total:					315.00
Vendor: 01041 - All Metals Supply, Inc					
11/12/2019	54065	screw pin anchor shackle			75.64
11/12/2019	54065	lifting eye			92.93
Vendor 01041 - All Metals Supply, Inc Total:					168.57
Vendor: 02847 - American Conservation & Billing Solutions					
11/21/2019	54169	Aquahawk Alerting			100.00
Vendor 02847 - American Conservation & Billing Solutions Total:					100.00
Vendor: 03090 - APTIM Environmental & Infrastructure LLC					
11/21/2019	54170	Job#18-F1 - Public Assistance			59,713.81
Vendor 03090 - APTIM Environmental & Infrastructure LLC Total:					59,713.81
Vendor: 01068 - Aramark Uniform Services					
11/04/2019	54035	Unifroms			350.63
11/04/2019	54035	Uniforms			87.17
11/12/2019	54066	Uniforms			350.63
11/12/2019	54066	Uniforms			121.47
11/21/2019	54171	Uniforms			350.63
11/21/2019	54171	Uniforms			87.17
11/21/2019	54171	Uniforms			121.47

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
11/27/2019	54215	Uniforms			350.63
				Vendor 01068 - Aramark Uniform Services Total:	1,819.80
Vendor: 01083 - AT&T					
11/12/2019	54067	Bres/A Tank Alarm			33.03
11/21/2019	54172	Bres/A Tank Alarm			33.30
11/21/2019	54172	Bres/A Tank Alarm			33.30
				Vendor 01083 - AT&T Total:	99.63
Vendor: 03071 - BC Laboratories, Inc.					
11/04/2019	54036	Job #18-F1 - Water Sampling (14)			935.00
11/12/2019	54068	Job #18-F1 - Water Sampling (29)			1,910.00
11/12/2019	54068	Job #18-F1 - Water Sampling (21)			1,390.00
11/12/2019	54068	Job #18-F1 - Water Sampling (2)			130.00
11/21/2019	54173	Job #18-F1 - Water Sampling (28)			1,820.00
11/21/2019	54173	Job #18-F1 - Water Sampling (35)			2,300.00
11/21/2019	54173	Job #18-F1 - Water Sampling (50)			3,275.00
11/21/2019	54173	Job #18-F1 - Water Sampling (16)			1,065.00
11/21/2019	54173	Job #18-F1 - Water Sampling (18)			1,195.00
11/21/2019	54173	Job #18-F1 - Water Sampling			910.00
11/21/2019	54173	Job #18-F1 - Water Sampling (48)			3,120.00
11/21/2019	54173	Job #18-F1 - Water Sampling (14)			1,390.00
11/21/2019	54173	Job #18-F1 - Water Sampling (20)			1,300.00
11/21/2019	54173	Job #18-F1 - Water Sampling (12)			780.00
11/21/2019	54173	Job #18-F1 - Water Sampling (4)			260.00
11/21/2019	54173	Job #18-F1 - Water Sampling (7)			480.00
11/21/2019	54173	Job #18-F1 - Water Sampling (3)			317.50
11/21/2019	54173	Job #18-F1 - Water Sampling			27.50
11/21/2019	54173	Job #18-F1 - Water Sampling (3)			317.50
11/21/2019	54173	Job #18-F1 - Water Sampling			1,820.00
11/21/2019	54173	Job #18-F1 - Water Sampling (30)			1,950.00
11/21/2019	54173	Job #18-F1 - Water Sampling (4)			415.00
				Vendor 03071 - BC Laboratories, Inc. Total:	27,107.50
Vendor: 01132 - BCSDA					
11/21/2019	54175	Annual Dues 2020			25.00
				Vendor 01132 - BCSDA Total:	25.00
Vendor: 02870 - Boot Barn, Inc					
11/04/2019	54037	Safety Supplies - TP			125.00
11/21/2019	54176	Safety Supplies - KT			125.00
				Vendor 02870 - Boot Barn, Inc Total:	250.00
Vendor: 01942 - Butte Co - Neal Rd Landfill					
11/21/2019	54177	Landfill Fees - Shop			460.26
				Vendor 01942 - Butte Co - Neal Rd Landfill Total:	460.26

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
Vendor: 02304 - CDTFA					
11/27/2019	54216	Water Rights Fees 07/01/19 - 06/30/19			4,520.00
11/27/2019	54216	Water Rights Fees 07/01/19 - 06/30/19			1,047.15
11/27/2019	54216	Water Rights Fees 07/01/19 - 06/30/19			1,106.65
11/27/2019	54216	Water Rights Fees 07/01/19 - 06/30/19			4,800.00
Vendor 02304 - CDTFA Total:					11,473.80
Vendor: 03091 - City of Healdsburg					
11/21/2019	54178	Job#18-F1 - Mutual Aid			5,919.00
Vendor 03091 - City of Healdsburg Total:					5,919.00
Vendor: 03087 - Cobb Area County Water District					
11/12/2019	54069	Job #18-F1 - Mutual Aid			13,931.21
Vendor 03087 - Cobb Area County Water District Total:					13,931.21
Vendor: 01320 - Comcast					
11/12/2019	54070	Internet			603.17
Vendor 01320 - Comcast Total:					603.17
Vendor: 02905 - COMP, Inc.					
11/27/2019	54217	Physicals & Pre-employment - Shop			1,115.00
Vendor 02905 - COMP, Inc. Total:					1,115.00
Vendor: 01552 - Davi, Bruce					
11/21/2019	54179	Double wide mobile (Paradise Lake)			200.00
11/21/2019	54179	#2 Pump Station			75.00
11/21/2019	54179	Treatment Plant Landscape Spray			300.00
11/21/2019	54179	Treatment Pland Landscape Spray			500.00
Vendor 01552 - Davi, Bruce Total:					1,075.00
Vendor: 01460 - Drug & Alcohol Testing Division					
11/12/2019	54071	Physicals - DMV & Preemployment			137.00
11/12/2019	54071	Physicals - DMV & Preemployment			137.00
Vendor 01460 - Drug & Alcohol Testing Division Total:					274.00
Vendor: 02120 - Durham Pentz Truck Center					
11/04/2019	54038	Snap test #1, 7, 27,29,36			206.00
Vendor 02120 - Durham Pentz Truck Center Total:					206.00
Vendor: 01474 - Eagles Security Systems					
11/21/2019	54180	Building Security - Office			120.00
Vendor 01474 - Eagles Security Systems Total:					120.00
Vendor: 02888 - Elecsys International Corporation					
11/21/2019	54181	Misc. Supplies - TP			8.00
11/27/2019	54218	Misc. Supplies - TP			8.00
Vendor 02888 - Elecsys International Corporation Total:					16.00
Vendor: 01489 - Ellis Art and Engineering Supplies					
11/21/2019	54182	Construction & Maint. Supplies			197.13
Vendor 01489 - Ellis Art and Engineering Supplies Total:					197.13
Vendor: 01480 - Employment Development Dept.					
11/04/2019	DFT0003523	State Income Tax Withholding			3,998.33
11/04/2019	DFT0003526	State Disability Withholding			850.79
11/18/2019	DFT0003539	State Income Tax Withholding			4,498.09
11/18/2019	DFT0003542	State Disability Withholding			902.92
11/22/2019	DFT0003549	State Income Tax Withholding			45.27

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
11/22/2019	DFT0003552	State Disability Withholding			127.72
Vendor 01480 - Employment Development Dept. Total:					10,423.12
Vendor: 01275 - Enterprise Record					
11/21/2019	54183	Job #18-F1 - Public Notice			112.29
Vendor 01275 - Enterprise Record Total:					112.29
Vendor: 03089 - Fallbrook Public Utility District					
11/21/2019	54184	Job#18-F1 - Mutual Aid			19,963.78
Vendor 03089 - Fallbrook Public Utility District Total:					19,963.78
Vendor: 01521 - Fastenal Co					
11/21/2019	54185	Construction & Maint. Supplies			33.21
Vendor 01521 - Fastenal Co Total:					33.21
Vendor: 01527 - Ferguson Enterprises, Inc					
11/04/2019	54039	Inventory			2,886.63
11/04/2019	54039	Inventory			22.63
11/04/2019	54039	Inventory			2,033.78
11/04/2019	54039	Job #18-F1 - Construction & Maint. Supplies			967.24
11/04/2019	54039	Inventory			1,364.22
11/04/2019	54039	Job #18-F1 - Construction & Maint. Supplies			260.09
11/04/2019	54039	Inventory			-730.54
11/12/2019	54072	1" meter gaskets			400.00
11/12/2019	54072	3/4" meter gaskets			886.52
11/21/2019	54186	Restraint Bell Cl 4'			82.88
11/21/2019	54186	Pipe - C-900 - 4'			64.35
Vendor 01527 - Ferguson Enterprises, Inc Total:					8,237.80
Vendor: 01528 - FGL Environmental					
11/12/2019	54073	Job #18-F1 - Water Sampling (1)			22.00
11/12/2019	54073	Job #18-F1 - Water Sampling (15)			1,875.00
11/12/2019	54073	Job #18-F1 - Water Sampling (7)			875.00
11/12/2019	54073	Job #18-F1 - Water Sampling (2)			52.00
11/12/2019	54073	Job #18-F1 - Water Sampling (4)			88.00
11/12/2019	54073	Job #18-F1 - Water Sampling (12)			1,500.00
11/12/2019	54073	Job #18-F1 - Water Sampling (12)			1,125.00
11/12/2019	54073	Job #18-F1 - Water Sampling (12)			1,500.00
11/12/2019	54073	Job#18-F1 - Water Sampling (3)			60.00
11/12/2019	54073	Job #18-F1 - Water Sampling (7)			875.00
11/12/2019	54073	Job #18-F1 - Water Sampling (11)			1,375.00
11/12/2019	54073	Job #18-F1 - Water Sampling (1)			22.00
11/12/2019	54073	Job #18-F1 - Water Sampling (1)			22.00
11/21/2019	54187	Job #18-F1 - Water Sampling (1)			24.00
11/21/2019	54187	Job #18-F1 - Water Sampling (21)			2,625.00
Vendor 01528 - FGL Environmental Total:					12,040.00
Vendor: 02945 - Fiserv Solutions, LLC					
11/21/2019	54188	Bank Charges - 2019-10			14.00
Vendor 02945 - Fiserv Solutions, LLC Total:					14.00

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
Vendor: 01587 - Genterra Consultants, Inc.					
11/21/2019	54189	Magalia Dam Piezometers Cleaning			1,248.52
Vendor 01587 - Genterra Consultants, Inc. Total:					1,248.52
Vendor: 01616 - Grainger Inc					
11/04/2019	54040	Job #18-F1 - Construction & Maint. Supplies			-150.60
11/04/2019	54040	Equipment Repairs			25.36
11/04/2019	54040	Repair Parts			180.78
11/04/2019	54040	Repair Parts			48.38
Vendor 01616 - Grainger Inc Total:					103.92
Vendor: 01673 - Herc Rentals					
11/04/2019	54041	Job #18-F1 - Equipment Rental			2,089.75
11/04/2019	54041	Job #18-F1 - Equipment Rental			967.09
11/12/2019	54074	Job #18-F1 - Equipment Rental			7,568.47
11/21/2019	54190	Job #18-F1 - Equipment Rental			2,080.05
11/21/2019	54190	Job #18-F1 - Equipment Rental			4,885.10
Vendor 01673 - Herc Rentals Total:					17,590.46
Vendor: 01688 - Home Depot Credit Services					
11/27/2019	54219	Small Hand Tools			788.73
Vendor 01688 - Home Depot Credit Services Total:					788.73
Vendor: 01705 - Hunt & Sons, Inc.					
11/04/2019	54042	151gals. unleaded gasoline			607.93
11/12/2019	54075	450gals. unleaded gasoline			1,810.89
11/12/2019	54075	435gals. dyed diesel			1,414.12
11/21/2019	54213	Fuel			4,928.40
11/21/2019	54191	415gals. unleaded gasoline			1,628.15
11/27/2019	54220	310 gals. unleaded gasoline			1,218.68
11/27/2019	54220	53 gals. dyed diesel			181.15
Vendor 01705 - Hunt & Sons, Inc. Total:					11,789.32
Vendor: 01713 - I.B.E.W. Local Union 1245					
11/04/2019	54043	Union Dues			-46.00
11/04/2019	54043	Union Dues			853.45
11/21/2019	54192	Union Dues			-46.00
11/21/2019	54192	Union Dues			853.45
Vendor 01713 - I.B.E.W. Local Union 1245 Total:					1,614.90
Vendor: 01716 - ICMA Retirement Trust-401					
11/01/2019	DFT0003515	Retirement - 401(a) Match			2,127.38
11/15/2019	DFT0003531	Retirement - 401(a) Match			2,206.51
11/19/2019	DFT0003545	Retirement - 401(a) Match			273.52
11/29/2019	DFT0003557	Retirement - 401(a) Match			2,195.12
Vendor 01716 - ICMA Retirement Trust-401 Total:					6,802.53
Vendor: 01715 - ICMA Retirement Trust-457					
11/01/2019	DFT0003516	Retirement Trust - 457			2,127.38
11/01/2019	DFT0003517	Deferred Comp 457			6,830.46
11/01/2019	DFT0003518	Retirement Trust - 457			606.01
11/01/2019	DFT0003519	Retirement Trust - 457			1,525.74
11/01/2019	DFT0003520	Loan Payment			447.82
11/01/2019	DFT0003521	Loan Payment			125.00
11/01/2019	DFT0003522	Loan Payment			40.11
11/15/2019	DFT0003532	Retirement Trust - 457			2,206.51
11/15/2019	DFT0003533	Deferred Comp 457			7,093.47
11/15/2019	DFT0003534	Retirement Trust - 457			612.92
11/15/2019	DFT0003535	Retirement Trust - 457			1,525.74
11/15/2019	DFT0003536	Loan Payment			447.82
11/15/2019	DFT0003537	Loan Payment			125.00
11/15/2019	DFT0003538	Loan Payment			40.11
11/19/2019	DFT0003546	Retirement Trust - 457			273.52

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
11/19/2019	DFT0003547	Deferred Comp 457			912.81
11/19/2019	DFT0003548	Retirement Trust - 457			37.00
11/29/2019	DFT0003558	Retirement Trust - 457			2,195.12
11/29/2019	DFT0003559	Deferred Comp 457			7,061.73
11/29/2019	DFT0003560	Retirement Trust - 457			612.92
11/29/2019	DFT0003561	Retirement Trust - 457			1,525.74
11/29/2019	DFT0003562	Loan Payment			447.82
11/29/2019	DFT0003563	Loan Payment			125.00
11/29/2019	DFT0003564	Loan Payment			40.11
				Vendor 01715 - ICMA Retirement Trust-457 Total:	36,985.86
Vendor: 01722 - Infinisource Cobra Compliance					
11/04/2019	54044	Flexible Benefits			80.00
11/27/2019	54221	Flexible Benefits			80.00
11/27/2019	54221	COBRA Admin			625.00
				Vendor 01722 - Infinisource Cobra Compliance Total:	785.00
Vendor: 02807 - Infosend					
11/21/2019	54193	Postage			3,035.57
				Vendor 02807 - Infosend Total:	3,035.57
Vendor: 01731 - Internal Revenue Service					
11/04/2019	DFT0003524	FICA Withholding			10,640.10
11/04/2019	DFT0003525	Fed Withholding			10,245.24
11/04/2019	DFT0003527	Medicare Wlthholding			2,835.78
11/18/2019	DFT0003540	FICA Withholding			11,909.88
11/18/2019	DFT0003541	Fed Withholding			11,720.62
11/18/2019	DFT0003543	Medicare Wlthholding			3,117.30
11/22/2019	DFT0003550	FICA Withholding			1,583.58
11/22/2019	DFT0003551	Fed Withholding			537.44
11/22/2019	DFT0003553	Medicare Wlthholding			370.34
				Vendor 01731 - Internal Revenue Service Total:	52,960.28
Vendor: 03057 - International Brotherhood of 137 TCWH					
11/04/2019	54045	Union Dues Teamsters			218.77
11/21/2019	54194	Union Dues Teamsters			218.77
				Vendor 03057 - International Brotherhood of 137 TCWH Total:	437.54
Vendor: 03092 - Ismael Alvarez					
11/21/2019	54212	Truck Delivery - 2019-11-22			2,600.00
				Vendor 03092 - Ismael Alvarez Total:	2,600.00
Vendor: 01742 - J C Nelson Supply Co.					
11/04/2019	54046	Janitorial Supplies - Shop			392.98
11/21/2019	54195	Janitorial Supplies			139.00
11/21/2019	54195	Janitorial Supplies			432.08
				Vendor 01742 - J C Nelson Supply Co. Total:	964.06
Vendor: 01765 - J W Wood Co., Inc					
11/04/2019	54047	Job #18-F1 - Construction & Maint. Supplies			560.41
11/04/2019	54047	Job #18-F1 - Construction & Maint. Supplies			184.29
11/04/2019	54047	Job #18-F1 - Construction & Maint. Supplies			329.71
11/12/2019	54076	Job #18-F1 - Construction & Maint. Supplies			1,396.28
				Vendor 01765 - J W Wood Co., Inc Total:	2,470.69
Vendor: 01771 - Keller Supply					
11/21/2019	54196	backflow repair tool			185.01
				Vendor 01771 - Keller Supply Total:	185.01
Vendor: 01790 - Knife River Construction					
11/12/2019	54077	Job #18-F1 - Construction & Maint. Supplies			744.38
				Vendor 01790 - Knife River Construction Total:	744.38

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
Vendor: 03045 - N.C.G.T. SECURITY FUND					
11/06/2019	54063	Health			13,992.00
11/27/2019	54222	Health			13,992.00
				Vendor 03045 - N.C.G.T. SECURITY FUND Total:	27,984.00
Vendor: 01960 - Normac					
11/04/2019	54048	Job #18-F1 - Backflow Assembly			23,700.03
11/04/2019	54048	Job #18-F1 - Construction & Maint. Supplies			222.18
11/04/2019	54048	Job #18-F1 - Backflow Assembly			23,811.21
11/12/2019	54078	Inventory			459.32
11/12/2019	54078	Job #18-F1 - Backflow			23,918.46
11/12/2019	54078	Job #18-F1 - Backflow			23,918.46
11/21/2019	54214	Job#18-F1 - Backflow Assembly			23,811.21
11/21/2019	54197	Job #18-F1 - Backflow			17,938.83
11/21/2019	54197	Construction & Maint. Supplies			80.44
11/21/2019	54197	Job #18-F1 - Backflow			17,938.83
11/21/2019	54197	80 backflows and fittings			22,608.15
11/21/2019	54197	Nipple Sch 40 Galv 1 x 30			412.40
				Vendor 01960 - Normac Total:	178,819.52
Vendor: 01977 - North Valley Barricade					
11/04/2019	54049	Job #18-F1 - Construction & Maint. Supplies			2,149.61
11/21/2019	54198	70 barricades			2,149.61
11/21/2019	54198	70 barricades			2,149.61
11/21/2019	54198	70 barricades			2,149.61
11/21/2019	54198	70 barricades			2,149.61
11/21/2019	54198	Safety Supplies - Shop			701.02
11/21/2019	54198	70 barricades			2,149.61
11/21/2019	54198	70 barricades			2,149.61
11/21/2019	54198	Construction & Maint. Supplies			123.91
				Vendor 01977 - North Valley Barricade Total:	15,872.20
Vendor: 01980 - Northern Recycling & Waste Svcs					
11/12/2019	54079	Garbage - Lake			97.33
11/12/2019	54079	Garbage - TP			42.83
11/12/2019	54079	Garbage - Shop			154.43
11/12/2019	54079	Garbage - Office			54.82
11/21/2019	54199	Job#18-F1 - Debris Storage			100.00
				Vendor 01980 - Northern Recycling & Waste Svcs Total:	449.41
Vendor: 01950 - Northstate Aggregate, Inc.					
11/12/2019	54080	Job #18-F1 - Construction & Maint. Supplies			475.78
11/12/2019	54080	Job #18-F1 - Construction & Maint. Supplies			889.30
11/12/2019	54080	Job #18-F1 - Construction & Maint. Supplies			488.42
11/12/2019	54080	Job #18-F1 - Construction & Maint. Supplies			897.26
11/12/2019	54080	Job #18-F1 - Construction & Maint. Supplies			955.71
				Vendor 01950 - Northstate Aggregate, Inc. Total:	3,706.47
Vendor: 01995 - Office Depot					
11/04/2019	54050	Office Supplies - Shop			211.15
11/21/2019	54200	Office Supplies - Shop			136.16
11/21/2019	54200	Office Supplies - Office			180.98
11/21/2019	54200	Office Supplies - Office			142.02
11/21/2019	54200	Office Supplies - Shop			31.34
				Vendor 01995 - Office Depot Total:	701.65

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
Vendor: 02005 - Olin Corp.-Chlor Alkali					
11/27/2019	54223	Sodium Hypochlorite - Bleach			4,287.07
				Vendor 02005 - Olin Corp.-Chlor Alkali Total:	4,287.07
Vendor: 02030 - Pace Supply					
11/04/2019	54051	Job #18-F1 - Construction & Maint. Supplies			394.90
11/12/2019	54081	Corp Stop - Serv Brass - 2' MIP x Comp			737.64
11/12/2019	54081	Nipple - Brass - 3/4' Close			65.76
11/12/2019	54081	Bushing - Brass - 2' x 1 1/2'			96.00
11/12/2019	54081	Nipple - Brass - 3/4' x 6'			105.84
11/12/2019	54081	90 Street Ell- Brass - 3/4'			108.00
11/12/2019	54081	Nipple - Brass - 3/4' x 3'			112.80
11/12/2019	54081	Bushing - Brass - 1' x 3/4'			132.00
11/12/2019	54081	Nipple - Brass - 3/4' x 4'			144.96
11/12/2019	54081	Nipple - Brass - 1' Close			48.48
11/12/2019	54081	Bushing - Brass - 1 1/4' x 1'			197.76
11/12/2019	54081	Adaptor - Serv Brass - 1' MIP X Comp			336.00
11/12/2019	54081	Bushing - Brass - 2' x 1'			427.20
11/12/2019	54081	Nipple - Brass - 1' x 2'			58.80
11/12/2019	54081	Adaptor - Serv Brass - 2' MIP x Comp			1,464.00
11/12/2019	54081	Corp Stop-Service Brass-2" MIP x 2" FIP			1,088.88
11/12/2019	54081	90 - Serv Brass - 1' MIP x Comp			968.79
11/12/2019	54081	90 Brass 2" MIP x COMP			543.54
11/12/2019	54081	Coupling - Serv Brass - 2' Comp			784.92
11/21/2019	54201	Inventory			153.48
11/21/2019	54201	Job #18-F1 - Construction & Maint. Supplies			827.24
11/21/2019	54201	Inventory			394.90
11/21/2019	54201	Corp Stop - Serv Brass - 2' MIP x Comp			397.40
11/21/2019	54201	Wye - Serv Brass - 2" x 1" Comp			2,711.42
11/21/2019	54201	45 - Cl - 4' MJ			62.93
11/21/2019	54201	Nipple - Galv - 1" x 2"			51.18
11/21/2019	54201	Nipple - Galv - 1 1/2' x 4'			53.61
11/21/2019	54201	Nipple - Galv - 2' x 3'			53.61
11/21/2019	54201	Nipple - Galv - 1" x 3"			62.50
11/21/2019	54201	Nipple - Galv - 1" x 7"			176.17
11/21/2019	54201	Nipple - Galv - 1 1/2' x 5'			64.11
11/21/2019	54201	Nipple - Galv - 1 1/2' x 6'			74.89
11/21/2019	54201	B16 Reading Lid - DI			75.19
11/21/2019	54201	90 - Cl - 4' MJ x FL			86.63
11/21/2019	54201	Nipple - Galv - 1" x 5"			88.36
11/21/2019	54201	Nipple - Galv - 2' x 6'			89.25
11/21/2019	54201	Nipple - Galv - 1" x 6"			107.21
11/21/2019	54201	Nipple - Galv - 1 1/2' x 7'			115.83
11/21/2019	54201	Nipple - Galv - 1 1/2' x 8'			124.99
11/21/2019	54201	Nipple - Galv - 1" x 11"			128.01
11/21/2019	54201	Nipple - Galv - 2' x 7'			133.93
11/21/2019	54201	Nipple - Galv - 2' x 2'			40.41
11/21/2019	54201	Nipple - Galv - 1' x 1 1/2"			37.71
11/21/2019	54201	Nipple - Galv - 1" x 12"			24.89
11/21/2019	54201	90 - Cl - 4' FL			140.08
11/21/2019	54201	Nipple - Galv - 1" x 4"			29.52
11/21/2019	54201	G5 Valve Box			1,074.87
11/21/2019	54201	B16 Box - Concrete			949.58
11/21/2019	54201	Nipple - Galv - 2' x 8'			167.55

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
11/21/2019	54201	Grip Ring Restraint Kit - Cl - 4'			235.97
11/21/2019	54201	90 - Cl - 8' MJ			178.33
11/21/2019	54201	Nipple - Galv - 1 1/2' x 2'			10.57
11/21/2019	54201	Grip Ring Restraint Kit - Cl - 6'			285.43
11/21/2019	54201	Nipple - Galv - 1 1/2' x 3'			43.64
11/21/2019	54201	B16 Reading Lid - DI			17.67
11/21/2019	54201	B16 Box - Concrete			118.70
				Vendor 02030 - Pace Supply Total:	17,204.03
Vendor: 02081 - Pacific Gas & Electric Company					
11/21/2019	54202	Geppetto North End - Electric			-225.26
11/21/2019	54202	Paradise Dam #2 Park - Electric			-204.87
11/21/2019	54202	Mag Res Filtration Plant - Electric			6,605.27
11/21/2019	54202	Lovely Ln. N/End Tank Res #D - Electric			-233.89
11/21/2019	54202	Skyway W/S N/Clark Tank Res #A - Electric			-230.07
11/21/2019	54202	Moore Rd. ES Forest Serv. Rd. - Electric			1,925.60
11/21/2019	54202	Bader Mine Rd - Electric			-217.81
11/21/2019	54202	Pumping Station - Electric			1,616.40
11/21/2019	54202	Frank Turner Way Tank Res #C - Electric			-230.31
11/21/2019	54202	Nunnely Rd. Ext. Tank Res #E - Electric			-230.43
11/21/2019	54202	6344 Clark Rd. - Gas			26.75
11/21/2019	54202	Frank Turner Way Tank Res #C - Gas			281.71
				Vendor 02081 - Pacific Gas & Electric Company Total:	8,883.09
Vendor: 03093 - Padre Dam Municipal Water District					
11/27/2019	54224	Job #18-F1 - Mutual Aid			9,336.85
				Vendor 03093 - Padre Dam Municipal Water District Total:	9,336.85
Vendor: 02114 - Paradise Ridge Chamber of Comm					
11/12/2019	54082	Dues			160.00
				Vendor 02114 - Paradise Ridge Chamber of Comm Total:	160.00
Vendor: 02059 - Payless Building Supply					
11/04/2019	54052	Job #18-F1 - Construction & Maint. Supplies			485.95
				Vendor 02059 - Payless Building Supply Total:	485.95
Vendor: 02070 - Peterson					
11/12/2019	54083	Rapairs #2 Pump Station, Standby Generator - TP			1,571.73
				Vendor 02070 - Peterson Total:	1,571.73
Vendor: 03048 - Plan B Professional Answering Sewrvice					
11/21/2019	54203	Job#18-F1 - Answering Service			179.00
				Vendor 03048 - Plan B Professional Answering Sewrvice Total:	179.00
Vendor: 03085 - Rancho California Water District					
11/04/2019	54053	JOB#18 - F1 Mutual Aid			194,494.51
				Vendor 03085 - Rancho California Water District Total:	194,494.51
Vendor: 03086 - RDO Equipment Co.					
11/12/2019	54084	Job #18-F1 - Equipment Rental			4,182.75
11/21/2019	54204	Job#18-F1 - Equipment Rental			4,182.75
				Vendor 03086 - RDO Equipment Co. Total:	8,365.50
Vendor: 03070 - Reed Smith LLP					
11/27/2019	54225	Job #18-F1 - Professional Services			8,746.50
				Vendor 03070 - Reed Smith LLP Total:	8,746.50

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
Vendor: 02185 - Roberts & Brune Company					
11/04/2019	54054	Inventory			-1,443.69
11/04/2019	54054	Angle Stop - Serv Brass - 1' Comp			1,058.69
11/04/2019	54054	Adaptor - Serv Brass - 1' FIP x Comp			148.71
11/04/2019	54054	Adaptor - Serv Brass - 1' MIP X Comp			236.29
11/04/2019	54054	Small Hand Tools			82.69
11/04/2019	54054	Construciton & Maint. Supplies			171.60
11/04/2019	54054	Inventory			942.73
11/04/2019	54054	Inventory			1,178.25
11/04/2019	54054	Small Hand Tools			97.03
11/12/2019	54085	Pipe - C-900 - 6'			315.96
Vendor 02185 - Roberts & Brune Company Total:					2,788.26
Vendor: 03069 - Rush Personnel Services, Inc.					
11/04/2019	54055	Salaries - Direct			804.60
11/12/2019	54086	Salaries - Direct			876.12
11/21/2019	54205	Salaries - Direct			905.92
11/21/2019	54205	Salaries - Direct			643.68
11/27/2019	54226	Salaries - Direct			1,001.28
Vendor 03069 - Rush Personnel Services, Inc. Total:					4,231.60
Vendor: 03061 - Sterling Health Services, Inc DBA					
11/01/2019	DFT0003514	HSA Contribution			553.76
11/15/2019	DFT0003530	HSA Contribution			553.76
11/29/2019	DFT0003556	HSA Contribution			553.76
Vendor 03061 - Sterling Health Services, Inc DBA Total:					1,661.28
Vendor: 02332 - SWRCB					
11/21/2019	54206	Water System Fee - 7/1/19-6/30/20			11,668.00
Vendor 02332 - SWRCB Total:					11,668.00
Vendor: 02826 - Sylvir Consulting, Inc.					
11/04/2019	54056	Job#18 - F1 - Grant Writing Services			12,422.01
Vendor 02826 - Sylvir Consulting, Inc. Total:					12,422.01
Vendor: 02362 - Thomas Ace Hardware					
11/04/2019	54057	Job #18-F1 - Construction & Maint. Supplies			640.04
11/12/2019	54087	Construction & Maint. Supplies			48.75
11/12/2019	54087	Construction & Maint. Supplies			74.35
11/12/2019	54087	Construction & Maint. Supplies			-74.35
11/12/2019	54087	Construction & Maint. Supplies			56.02
11/12/2019	54087	Small Hand Tools			65.12
11/12/2019	54087	Job #18-F1 - Construction & Maint. Supplies			215.28
11/12/2019	54087	Construction & Maint. Supplies			267.65
11/12/2019	54087	Construction & Maint. Supplies			86.16
11/12/2019	54087	Small Hand Tools			73.88
11/12/2019	54087	Construction & Maint. Supplies			47.40
11/12/2019	54087	Costruction & Maint. Supplies			3.94
11/12/2019	54087	Construction & Maint. Supplies			143.45
11/12/2019	54087	Small Hand Tools			116.68
11/12/2019	54087	Construction & Maint. Supplies			58.47
11/21/2019	54207	Construction & Maint. Supplies			23.65
11/21/2019	54207	Construction & Maint. Supplies			50.27
11/21/2019	54207	Construction & Maint. Supplies			73.08
11/21/2019	54207	Job #18-F1 - Backflow			23.27
11/21/2019	54207	Job #18-F1 - Construction & Maint. Supplies			29.87
11/21/2019	54207	Construction & Maint. Supplies			164.06

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
11/21/2019	54207	Construction & Maint. Supplies			20.62
11/21/2019	54207	Misc. Supplies - TP			43.61
11/27/2019	54227	Job #18-F1 - Construction & Maint. Supplies			678.80
11/27/2019	54227	Small Hand Tools			32.02
11/27/2019	54227	Job #18-F1 - Construction & Maint Supplies			1,257.29
11/27/2019	54227	Small Hand Tools			61.17
Vendor 02362 - Thomas Ace Hardware Total:					4,280.55
Vendor: 02363 - Thomas Hydraulic					
11/04/2019	54058	Equipment Repairs #43, Vac unit			733.18
Vendor 02363 - Thomas Hydraulic Total:					733.18
Vendor: 02376 - Town of Paradise					
11/21/2019	54208	Hydrant Repairs & Maint 7/1-9/30			8,437.85
Vendor 02376 - Town of Paradise Total:					8,437.85
Vendor: 02902 - Tyler Business Forms					
11/04/2019	54059	Office Supplies - Office			974.04
11/04/2019	54059	Office Supplies - Office			124.72
Vendor 02902 - Tyler Business Forms Total:					1,098.76
Vendor: 02394 - Tyler Technologies, Inc.					
11/04/2019	54060	Maintenance - 2019-11			200.00
Vendor 02394 - Tyler Technologies, Inc. Total:					200.00
Vendor: 02692 - United Rentals, Inc					
11/21/2019	54209	Job#18-F1 - Rental Equipment			188.71
Vendor 02692 - United Rentals, Inc Total:					188.71
Vendor: 02681 - Univar USA, Inc.					
11/21/2019	54210	Sodium Bisulfite (25%)			1,356.72
Vendor 02681 - Univar USA, Inc. Total:					1,356.72
Vendor: 02824 - US Bank Corporate Payment System					
11/12/2019	54088	Meals			176.24
11/12/2019	54088	Office - Monthly Fee			12.99
11/12/2019	54088	Office - Monthly Fee			19.99
11/12/2019	54088	Office - Monthly Fee			192.00
11/12/2019	54088	Office - Monthly Fee			251.88
11/12/2019	54088	Office - Monthly Fee			29.99
11/12/2019	54088	Office Equipment - Office			694.99
11/12/2019	54088	Water Conservation Education			434.33
11/12/2019	54088	Office - Monthly Supplies			14.99
11/12/2019	54088	Office - Monthly Fee			19.98
11/12/2019	54088	Office Monthly Fee			13.99
11/12/2019	54088	Misc. Services - Office			120.00
11/12/2019	54088	Office - Monthly Fee			13.99
11/12/2019	54088	Office - Monthly Fee			14.98
11/12/2019	54088	Water Conservation Education			174.45
11/12/2019	54088	Office - Monthly Fee			34.99
11/12/2019	54088	Construction & Maint. Supplies			2,706.33
11/12/2019	54088	Construction & Maint. Supplies			2,624.15
11/12/2019	54088	Fuel			41.32
11/12/2019	54088	Office Supplies - Shop			622.91
11/12/2019	54088	Training			1,100.00
11/12/2019	54088	Job#18-F1 - Construction & Maint. Supplies			334.00
11/12/2019	54088	Job#18-F1 - Construction & Maint. Supplies			429.68
11/12/2019	54088	Job#18-F1 - Construction & Maint. Supplies			268.64
11/12/2019	54088	Travel			851.33

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
11/12/2019	54088	Travel			97.96
11/12/2019	54088	Training			95.00
11/12/2019	54088	Travel			530.83
11/12/2019	54088	Parking			30.00
11/12/2019	54088	Parking			15.00
11/12/2019	54088	Job Posting Advertising			15.00
11/12/2019	54088	Licenses			45.00
11/12/2019	54088	Equipment Replacement - Shop			1,327.84
11/12/2019	54088	Meals			72.00
11/27/2019	54228	Meals			-0.30
11/27/2019	54228	Office - Monthly Fee			12.99
11/27/2019	54228	Office - Monthly Fee			19.99
11/27/2019	54228	Office Supplies - Shop			262.10
11/27/2019	54228	Office - Monthly Fee			239.88
11/27/2019	54228	Office - Monthly Fee			513.00
11/27/2019	54228	Office - Monthly Fee			211.35
11/27/2019	54228	Office - Monthly Fee			29.99
11/27/2019	54228	Office - Monthly Fee			14.99
11/27/2019	54228	Office - Monthly Fee			19.98
11/27/2019	54228	Office - Monthly Fee			13.99
11/27/2019	54228	Office - Monthly Fee			13.99
11/27/2019	54228	Office - Monthly Fee			49.00
11/27/2019	54228	Office - Monthly Fee			14.98
11/27/2019	54228	Office Supplies - Shop			7.42
11/27/2019	54228	Office - Monthly Fee			79.99
11/27/2019	54228	Job #18-F1 - Construction & Maint. Supplies			5,737.69
11/27/2019	54228	Small Hand Tools			3,100.00
11/27/2019	54228	Office Supplies - Shop			115.64
11/27/2019	54228	Job #18-F1 - Construction & Maint. Supplies			282.61
11/27/2019	54228	Office Supplies - Shop			42.90
11/27/2019	54228	Construction & Maint. Supplies			333.49
11/27/2019	54228	Continuing Education - Shop			100.00
11/27/2019	54228	Certification Renewal - Shop			80.00
11/27/2019	54228	Office Supplies - Office			185.72
11/27/2019	54228	Office Supplies - Office			31.09
11/27/2019	54228	Meals			77.51
11/27/2019	54228	Travel - Training			158.09
11/27/2019	54228	Travel - Training			281.48
11/27/2019	54228	Miscellaneous Services			12.87
11/27/2019	54228	Office - Monthly Fee			199.00
11/27/2019	54228	Meals			19.67
11/27/2019	54228	Parking			10.50
11/27/2019	54228	Equipment Repairs - Pump Station #2			285.39
11/27/2019	54228	Equipment Repairs - Pump Station #2			1,043.43
11/27/2019	54228	Equipment Maintenance			31.19
11/27/2019	54228	Fuel			125.00
11/27/2019	54228	Equipment Repairs			1,938.50
11/27/2019	54228	Office Supplies - TP			246.20
Vendor 02824 - US Bank Corporate Payment System Total:					29,368.08
Vendor: 02686 - USA Blue Book					
11/12/2019	54091	Misc. Supplies			727.98
11/21/2019	54211	Repair Parts - Bleach Pump - TP			386.50
Vendor 02686 - USA Blue Book Total:					1,114.48

Expense Approval Report

Payment Dates: 11/01/2019 - 11/30/2019

Payment Date	Payment Number	Description (Item)	(None)	(None)	Amount
Vendor: 02703 - Verizon Wireless					
11/04/2019	54061	Mobile Phones			1,520.27
				Vendor 02703 - Verizon Wireless Total:	1,520.27
Vendor: 02712 - VistaNet inc.					
11/12/2019	54092	Shoretel Annual Support Renewal			2,480.00
				Vendor 02712 - VistaNet inc. Total:	2,480.00
Vendor: 03002 - Water Works Engineers					
11/04/2019	54062	Job#18-F1 - Disaster Recovery Management Services			138,665.22
				Vendor 03002 - Water Works Engineers Total:	138,665.22
Vendor: 02787 - Zee Service Company					
11/27/2019	54231	Safety Supplies - Shop			88.03
11/27/2019	54231	Safety Supplies - Shop			150.39
				Vendor 02787 - Zee Service Company Total:	238.42
				Grand Total:	1,124,118.63

Paradise Irrigation District

Detail of Disbursements Report

Check Numbers 54034 - 54231

Check#	Date	Vendor/Employee	Amount	% of Total Monthly Disbursements
54053	11/04/2019	Rancho California Water District	194,494.51	17.30%
54062	11/04/2019	Water Works Engineers	138,665.22	12.34%
54165	11/21/2019	ACWA/JPIA	79,319.86	7.06%
54170	11/21/2019	APTIM Environmental & Infrastructure LLC	59,713.81	5.31%
54197	11/21/2019	Normac	58,978.65	5.25%
54078	11/12/2019	Normac	48,296.24	4.30%
54048	11/04/2019	Normac	47,733.42	4.25%
54214	11/21/2019	Normac	23,811.21	2.12%
54173	11/21/2019	BC Laboratories, Inc.	22,742.50	2.02%
54184	11/21/2019	Fallbrook Public Utility District	19,963.78	1.78%
54164	11/21/2019	ACWA	19,640.00	1.75%
54228	11/27/2019	US Bank Corporate Payment System	15,941.31	1.42%
54063	11/06/2019	N.C.G.T. SECURITY FUND	13,992.00	1.24%
54222	11/27/2019	N.C.G.T. SECURITY FUND	13,992.00	1.24%
54069	11/12/2019	Cobb Area County Water District	13,931.21	1.24%
54198	11/21/2019	North Valley Barricade	13,722.59	1.22%
54088	11/12/2019	US Bank Corporate Payment System	13,426.77	1.19%
54056	11/04/2019	Sylvir Consulting, Inc.	12,422.01	1.11%
DFT0003540	11/18/2019	Internal Revenue Service	11,909.88	1.06%
DFT0003541	11/18/2019	Internal Revenue Service	11,720.62	1.04%
54206	11/21/2019	SWRCB	11,668.00	1.04%
54216	11/27/2019	CDTFA	11,473.80	1.02%
DFT0003524	11/04/2019	Internal Revenue Service	10,640.10	0.95%
DFT0003525	11/04/2019	Internal Revenue Service	10,245.24	0.91%
54073	11/12/2019	FGL Environmental	9,391.00	0.84%
54201	11/21/2019	Pace Supply	9,387.76	0.84%
54224	11/27/2019	Padre Dam Municipal Water District	9,336.85	0.83%
54202	11/21/2019	Pacific Gas & Electric Company	8,883.09	0.79%
54225	11/27/2019	Reed Smith LLP	8,746.50	0.78%
54208	11/21/2019	Town of Paradise	8,437.85	0.75%
54074	11/12/2019	Herc Rentals	7,568.47	0.67%
54081	11/12/2019	Pace Supply	7,421.37	0.66%
DFT0003533	11/15/2019	ICMA Retirement Trust-457	7,093.47	0.63%
DFT0003559	11/29/2019	ICMA Retirement Trust-457	7,061.73	0.63%
54190	11/21/2019	Herc Rentals	6,965.15	0.62%
DFT0003517	11/01/2019	ICMA Retirement Trust-457	6,830.46	0.61%
54039	11/04/2019	Ferguson Enterprises, Inc	6,804.05	0.61%
54178	11/21/2019	City of Healdsburg	5,919.00	0.53%
54213	11/21/2019	Hunt & Sons, Inc.	4,928.40	0.44%
DFT0003539	11/18/2019	Employment Development Dept.	4,498.09	0.40%
54223	11/27/2019	Olin Corp.-Chlor Alkali	4,287.07	0.38%
54084	11/12/2019	RDO Equipment Co.	4,182.75	0.37%
54204	11/21/2019	RDO Equipment Co.	4,182.75	0.37%
DFT0003523	11/04/2019	Employment Development Dept.	3,998.33	0.36%
54080	11/12/2019	Northstate Aggregate, Inc.	3,706.47	0.33%
54068	11/12/2019	BC Laboratories, Inc.	3,430.00	0.31%
54075	11/12/2019	Hunt & Sons, Inc.	3,225.01	0.29%
DFT0003543	11/18/2019	Internal Revenue Service	3,117.30	0.28%
54041	11/04/2019	Herc Rentals	3,056.84	0.27%
54193	11/21/2019	Infosend	3,035.57	0.27%
DFT0003527	11/04/2019	Internal Revenue Service	2,835.78	0.25%
54187	11/21/2019	FGL Environmental	2,649.00	0.24%
54212	11/21/2019	Ismael Alvarez	2,600.00	0.23%
54092	11/12/2019	VistaNet inc.	2,480.00	0.22%
54054	11/04/2019	Roberts & Brune Company	2,472.30	0.22%
DFT0003531	11/15/2019	ICMA Retirement Trust-401	2,206.51	0.20%
DFT0003532	11/15/2019	ICMA Retirement Trust-457	2,206.51	0.20%
DFT0003557	11/29/2019	ICMA Retirement Trust-401	2,195.12	0.20%

Check#	Date	Vendor/Employee	Amount	% of Total Monthly Disbursements
DFT0003558	11/29/2019	ICMA Retirement Trust-457	2,195.12	0.20%
54049	11/04/2019	North Valley Barricade	2,149.61	0.19%
DFT0003515	11/01/2019	ICMA Retirement Trust-401	2,127.38	0.19%
DFT0003516	11/01/2019	ICMA Retirement Trust-457	2,127.38	0.19%
54227	11/27/2019	Thomas Ace Hardware	2,029.28	0.18%
54064	11/12/2019	Adecco Employment Services	1,778.57	0.16%
54191	11/21/2019	Hunt & Sons, Inc.	1,628.15	0.14%
DFT0003550	11/22/2019	Internal Revenue Service	1,583.58	0.14%
54083	11/12/2019	Peterson	1,571.73	0.14%
54205	11/21/2019	Rush Personnel Services, Inc.	1,549.60	0.14%
DFT0003519	11/01/2019	ICMA Retirement Trust-457	1,525.74	0.14%
DFT0003535	11/15/2019	ICMA Retirement Trust-457	1,525.74	0.14%
DFT0003561	11/29/2019	ICMA Retirement Trust-457	1,525.74	0.14%
54061	11/04/2019	Verizon Wireless	1,520.27	0.14%
54220	11/27/2019	Hunt & Sons, Inc.	1,399.83	0.12%
54076	11/12/2019	J W Wood Co., Inc	1,396.28	0.12%
54210	11/21/2019	Univar USA, Inc.	1,356.72	0.12%
54072	11/12/2019	Ferguson Enterprises, Inc	1,286.52	0.11%
54189	11/21/2019	Genterra Consultants, Inc.	1,248.52	0.11%
54087	11/12/2019	Thomas Ace Hardware	1,182.80	0.11%
54217	11/27/2019	COMP, Inc.	1,115.00	0.10%
54059	11/04/2019	Tyler Business Forms	1,098.76	0.10%
54179	11/21/2019	Davi, Bruce	1,075.00	0.10%
54047	11/04/2019	J W Wood Co., Inc	1,074.41	0.10%
54226	11/27/2019	Rush Personnel Services, Inc.	1,001.28	0.09%
54036	11/04/2019	BC Laboratories, Inc.	935.00	0.08%
DFT0003547	11/19/2019	ICMA Retirement Trust-457	912.81	0.08%
DFT0003542	11/18/2019	Employment Development Dept.	902.92	0.08%
54086	11/12/2019	Rush Personnel Services, Inc.	876.12	0.08%
DFT0003526	11/04/2019	Employment Development Dept.	850.79	0.08%
54034	11/04/2019	Adecco Employment Services	841.95	0.07%
54043	11/04/2019	I.B.E.W. Local Union 1245	807.45	0.07%
54192	11/21/2019	I.B.E.W. Local Union 1245	807.45	0.07%
54055	11/04/2019	Rush Personnel Services, Inc.	804.60	0.07%
54219	11/27/2019	Home Depot Credit Services	788.73	0.07%
54077	11/12/2019	Knife River Construction	744.38	0.07%
54058	11/04/2019	Thomas Hydraulic	733.18	0.07%
54091	11/12/2019	USA Blue Book	727.98	0.06%
54221	11/27/2019	Infinisource Cobra Compliance	705.00	0.06%
54057	11/04/2019	Thomas Ace Hardware	640.04	0.06%
DFT0003534	11/15/2019	ICMA Retirement Trust-457	612.92	0.05%
DFT0003560	11/29/2019	ICMA Retirement Trust-457	612.92	0.05%
54042	11/04/2019	Hunt & Sons, Inc.	607.93	0.05%
DFT0003518	11/01/2019	ICMA Retirement Trust-457	606.01	0.05%
54070	11/12/2019	Comcast	603.17	0.05%
54195	11/21/2019	J C Nelson Supply Co.	571.08	0.05%
54171	11/21/2019	Aramark Uniform Services	559.27	0.05%
DFT0003514	11/01/2019	Sterling Health Services, Inc DBA	553.76	0.05%
DFT0003530	11/15/2019	Sterling Health Services, Inc DBA	553.76	0.05%
DFT0003556	11/29/2019	Sterling Health Services, Inc DBA	553.76	0.05%
54167	11/21/2019	Airgas USA, LLC	549.67	0.05%
DFT0003551	11/22/2019	Internal Revenue Service	537.44	0.05%
54166	11/21/2019	Adecco Employment Services	517.44	0.05%
54200	11/21/2019	Office Depot	490.50	0.04%
54052	11/04/2019	Payless Building Supply	485.95	0.04%
54066	11/12/2019	Aramark Uniform Services	472.10	0.04%
54177	11/21/2019	Butte Co - Neal Rd Landfill	460.26	0.04%
DFT0003520	11/01/2019	ICMA Retirement Trust-457	447.82	0.04%
DFT0003536	11/15/2019	ICMA Retirement Trust-457	447.82	0.04%
DFT0003562	11/29/2019	ICMA Retirement Trust-457	447.82	0.04%
54035	11/04/2019	Aramark Uniform Services	437.80	0.04%
54207	11/21/2019	Thomas Ace Hardware	428.43	0.04%

Check#	Date	Vendor/Employee	Amount	% of Total Monthly Disbursements
54051	11/04/2019	Pace Supply	394.90	0.04%
54046	11/04/2019	J C Nelson Supply Co.	392.98	0.03%
54211	11/21/2019	USA Blue Book	386.50	0.03%
DFT0003553	11/22/2019	Internal Revenue Service	370.34	0.03%
54215	11/27/2019	Aramark Uniform Services	350.63	0.03%
54079	11/12/2019	Northern Recycling & Waste Svcs	349.41	0.03%
54085	11/12/2019	Roberts & Brune Company	315.96	0.03%
54168	11/21/2019	All Around Heating & Air	315.00	0.03%
DFT0003513	11/01/2019	Aflac	283.14	0.03%
DFT0003529	11/15/2019	Aflac	283.14	0.03%
DFT0003555	11/29/2019	Aflac	283.14	0.03%
54071	11/12/2019	Drug & Alcohol Testing Division	274.00	0.02%
DFT0003545	11/19/2019	ICMA Retirement Trust-401	273.52	0.02%
DFT0003546	11/19/2019	ICMA Retirement Trust-457	273.52	0.02%
54231	11/27/2019	Zee Service Company	238.42	0.02%
54045	11/04/2019	International Brotherhood of 137 TCWH	218.77	0.02%
54194	11/21/2019	International Brotherhood of 137 TCWH	218.77	0.02%
54050	11/04/2019	Office Depot	211.15	0.02%
54038	11/04/2019	Durham Pentz Truck Center	206.00	0.02%
54060	11/04/2019	Tyler Technologies, Inc.	200.00	0.02%
54182	11/21/2019	Ellis Art and Engineering Supplies	197.13	0.02%
54209	11/21/2019	United Rentals, Inc	188.71	0.02%
54196	11/21/2019	Keller Supply	185.01	0.02%
54203	11/21/2019	Plan B Professional Answering Sewrvce	179.00	0.02%
54065	11/12/2019	All Metals Supply, Inc	168.57	0.01%
54082	11/12/2019	Paradise Ridge Chamber of Comm	160.00	0.01%
54186	11/21/2019	Ferguson Enterprises, Inc	147.23	0.01%
DFT0003552	11/22/2019	Employment Development Dept.	127.72	0.01%
54037	11/04/2019	Boot Barn, Inc	125.00	0.01%
54176	11/21/2019	Boot Barn, Inc	125.00	0.01%
DFT0003521	11/01/2019	ICMA Retirement Trust-457	125.00	0.01%
DFT0003537	11/15/2019	ICMA Retirement Trust-457	125.00	0.01%
DFT0003563	11/29/2019	ICMA Retirement Trust-457	125.00	0.01%
54180	11/21/2019	Eagles Security Systems	120.00	0.01%
54183	11/21/2019	Enterprise Record	112.29	0.01%
54040	11/04/2019	Grainger Inc	103.92	0.01%
54169	11/21/2019	American Conservation & Billing Solutions	100.00	0.01%
54199	11/21/2019	Northern Recycling & Waste Svcs	100.00	0.01%
54044	11/04/2019	Infinisource Cobra Compliance	80.00	0.01%
54172	11/21/2019	AT&T	66.60	0.01%
DFT0003549	11/22/2019	Employment Development Dept.	45.27	0.00%
DFT0003522	11/01/2019	ICMA Retirement Trust-457	40.11	0.00%
DFT0003538	11/15/2019	ICMA Retirement Trust-457	40.11	0.00%
DFT0003564	11/29/2019	ICMA Retirement Trust-457	40.11	0.00%
DFT0003548	11/19/2019	ICMA Retirement Trust-457	37.00	0.00%
54185	11/21/2019	Fastenal Co	33.21	0.00%
54067	11/12/2019	AT&T	33.03	0.00%
54175	11/21/2019	BCSDA	25.00	0.00%
54188	11/21/2019	Fiserv Solutions, LLC	14.00	0.00%
54181	11/21/2019	Elecsys International Corporation	8.00	0.00%
54218	11/27/2019	Elecsys International Corporation	8.00	0.00%
54089	11/12/2019	**Void**	-	0.00%
54090	11/12/2019	**Void**	-	0.00%
54174	11/21/2019	**Void**	-	0.00%
54229	11/27/2019	**Void**	-	0.00%
54230	11/27/2019	**Void**	-	0.00%
Total			<u>1,124,118.63</u>	

gborrayo

From: Jennifer Chavez <theredwagon@icloud.com>
Sent: Monday, October 28, 2019 5:40 PM
To: Kevin Phillips
Cc: gborrayo
Subject: Rent notice

Hi Kevin,

I am very sadly having to give my 30 days notice as of November 1st for Red Wagon. I will begin cleaning out the building and plan to be out by December 1, 2019. I will be forever grateful for the opportunity to serve the ridge children and have so many special memories in that building.

Thank you for allowing me to rent it for the past few years.

I know of a few folks that may be interested in renting it after I leave, shall I have them contact you?

Thank you for everything and I will keep in touch as I begin this heart breaking process.

Kindly, Jen Chavez

Sent from my iPhone



CALIFORNIA
ASSOCIATION
OF REALTORS®

COMMERCIAL LEASE AGREEMENT
(C.A.R. Form CL, Revised 12/15)

Date (For reference only): 1/29/16

Paradise Irrigation District
Jennifer and Joseph Chavez

("Landlord") and

("Tenant") agree as follows:

1. PROPERTY: Landlord rents to Tenant and Tenant rents from Landlord, the real property and improvements described as: 6360 Clark Rd
Paradise, CA 95969
comprise approximately 100 % of the total square footage of rentable space in the entire property. See exhibit _____ ("Premises"), which description of the Premises.

2. TERM: The term begins on (date) February 1, 2016 ("Commencement Date"),
(Check A or B):

- A. Lease: and shall terminate on (date) January 31, 2017 at 11:59 AM PM. Any holding over after the term of this agreement expires, with Landlord's consent, shall create a month-to-month tenancy that either party may terminate as specified in paragraph 2B. Rent shall be at a rate equal to the rent for the immediately preceding month, payable in advance. All other terms and conditions of this agreement shall remain in full force and effect.
- B. Month-to-month: and continues as a month-to-month tenancy. Either party may terminate the tenancy by giving written notice to the other at least 30 days prior to the intended termination date, subject to any applicable laws. Such notice may be given on any date.
- C. RENEWAL OR EXTENSION TERMS: See attached addendum _____

3. BASE RENT:

- A. Tenant agrees to pay Base Rent at the rate of (CHECK ONE ONLY):
 - (1) \$ 500.00 per month, for the term of the agreement.
 - (2) \$ _____ per month, for the first 12 months of the agreement. Commencing with the 13th month, and upon expiration of each 12 months thereafter, rent shall be adjusted according to any increase in the U.S. Consumer Price Index of the Bureau of Labor Statistics of the Department of Labor for All Urban Consumers ("CPI") for _____ (the city nearest the location of the Premises), based on the following formula: Base Rent will be multiplied by the most current CPI preceding the first calendar month during which the adjustment is to take effect, and divided by the most recent CPI preceding the Commencement Date. In no event shall any adjusted Base Rent be less than the Base Rent for the month immediately preceding the adjustment. If the CPI is no longer published, then the adjustment to Base Rent shall be based on an alternate index that most closely reflects the CPI.
 - (3) \$ _____ per month for the period commencing _____ and ending _____ and \$ _____ per month for the period commencing _____ and ending _____ and \$ _____ per month for the period commencing _____ and ending _____
 - (4) In accordance with the attached rent schedule.
 - (5) Other: _____
- B. Base Rent is payable in advance on the 1st (or _____) day of each calendar month, and is delinquent on the next day.
- C. If the Commencement Date falls on any day other than the first day of the month, Base Rent for the first calendar month shall be prorated based on a 30-day period. If Tenant has paid one full month's Base Rent in advance of Commencement Date, Base Rent for the second calendar month shall be prorated based on a 30-day period.

4. RENT:

- A. Definition: ("Rent") shall mean all monetary obligations of Tenant to Landlord under the terms of this agreement, except security deposit.
- B. Payment: Rent shall be paid to (Name) Paradise Irrigation District at (address) 6360 Clark Rd, Paradise, CA 95969, or at any other location specified by Landlord in writing to Tenant.
- C. Timing: Base Rent shall be paid as specified in paragraph 3. All other Rent shall be paid within 30 days after Tenant is billed by Landlord.

5. EARLY POSSESSION: Tenant is entitled to possession of the Premises on 1/29/16

If Tenant is in possession prior to the Commencement Date, during this time (i) Tenant is not obligated to pay Base Rent, and (ii) Tenant is not obligated to pay Rent other than Base Rent. Whether or not Tenant is obligated to pay Rent prior to Commencement Date, Tenant is obligated to comply with all other terms of this agreement.

6. SECURITY DEPOSIT:

- A. Tenant agrees to pay Landlord \$ 850.00 as a security deposit. Tenant agrees not to hold Broker responsible for its return. (IF CHECKED:) If Base Rent increases during the term of this agreement, Tenant agrees to increase security deposit by the same proportion as the increase in Base Rent.
- B. All or any portion of the security deposit may be used, as reasonably necessary, to: (i) cure Tenant's default in payment of Rent, late charges, non-sufficient funds ("NSF") fees, or other sums due; (ii) repair damage, excluding ordinary wear and tear, caused by Tenant or by a guest or licensee of Tenant; (iii) broom clean the Premises, if necessary, upon termination of tenancy; and (iv) cover any other unfulfilled obligation of Tenant. SECURITY DEPOSIT SHALL NOT BE USED BY TENANT IN LIEU OF PAYMENT OF LAST MONTH'S RENT. If all or any portion of the security deposit is used during tenancy, Tenant agrees to reinstate the total security deposit within 5 days after written notice is delivered to Tenant. Within 30 days after Landlord receives possession of the Premises, Landlord shall: (i) furnish Tenant an itemized statement indicating the amount of any security deposit received and the basis for its disposition, and (ii) return any remaining portion of security deposit to Tenant. However, if the Landlord's only claim upon the security deposit is for unpaid Rent, then the remaining portion of the security deposit, after deduction of unpaid Rent, shall be returned within 14 days after the Landlord receives possession.
- C. No interest will be paid on security deposit, unless required by local ordinance.

Landlord's Initials (JVC) (_____)

Tenant's Initials (JOC)

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CL REVISED 12/15 (PAGE 1 of 6)

COMMERCIAL LEASE AGREEMENT (CL PAGE 1 OF 6)

CB Properties, 5648 Skyway Suite 1 Paradise, CA 95969 Christine Boyle	Produced with zipForm® by zipLogix 18070 Fifteen Mile Road, Fraser, Michigan 48226 www.ziplogix.com	Phone: 530.877.8400 Fax: 530.877.6471	Clark Road
--------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	---------------------------------------	------------



Premises: 6360 Clark Rd Date 1/29/16

7. PAYMENTS:

	TOTAL DUE	PAYMENT RECEIVED	BALANCE DUE	DUE DATE
A. Rent: From <u>2/1/16</u> To <u>2/29/16</u>	\$ <u>500.00</u>	\$ <u>1/29/16</u>	\$ <u>0</u>	
B. Security Deposit	\$ <u>850.00</u>	\$ <u>1/29/16</u>	\$ <u>0</u>	
C. Other: _____	\$ _____	\$ _____	\$ _____	
D. Other: _____	\$ _____	\$ _____	\$ _____	
E. Total: _____	\$ <u>1,350.00</u>	\$ <u>1,350.00</u>	\$ <u>0</u>	

8. PARKING: Tenant is entitled to 100% unreserved and 100% reserved vehicle parking spaces. The right to parking is is not included in the Base Rent charged pursuant to paragraph 3. If not included in the Base Rent, the parking rental fee shall be an additional \$ _____ per month. Parking space(s) are to be used for parking operable motor vehicles, except for trailers, boats, campers, buses or trucks (other than pick-up trucks). Tenant shall park in assigned space(s) only. Parking space(s) are to be kept clean. Vehicles leaking oil, gas or other motor vehicle fluids shall not be parked in parking spaces or on the Premises. Mechanical work or storage of inoperable vehicles is not allowed in parking space(s) or elsewhere on the Premises. No overnight parking is permitted.

9. ADDITIONAL STORAGE: Storage is permitted as follows: in building + structure on site. The right to additional storage space is is not included in the Base Rent charged pursuant to paragraph 3. If not included in Base Rent, storage space shall be an additional \$ _____ per month. Tenant shall store only personal property that Tenant owns, and shall not store property that is claimed by another, or in which another has any right, title, or interest. Tenant shall not store any improperly packaged food or perishable goods, flammable materials, explosives, or other dangerous or hazardous material. Tenant shall pay for, and be responsible for, the clean-up of any contamination caused by Tenant's use of the storage area.

10. LATE CHARGE; INTEREST; NSF CHECKS: Tenant acknowledges that either late payment of Rent or issuance of a NSF check may cause Landlord to incur costs and expenses, the exact amount of which are extremely difficult and impractical to determine. These costs may include, but are not limited to, processing, enforcement and accounting expenses, and late charges imposed on Landlord. If any installment of Rent due from Tenant is not received by Landlord within 5 calendar days after date due, or if a check is returned NSF, Tenant shall pay to Landlord, respectively, \$ 25.00 as late charge, plus 10% interest per annum on the delinquent amount and \$25.00 as a NSF fee, any of which shall be deemed additional Rent. Landlord and Tenant agree that these charges represent a fair and reasonable estimate of the costs Landlord may incur by reason of Tenant's late or NSF payment. Any late charge, delinquent interest, or NSF fee due shall be paid with the current installment of Rent. Landlord's acceptance of any late charge or NSF fee shall not constitute a waiver as to any default of Tenant. Landlord's right to collect a Late Charge or NSF fee shall not be deemed an extension of the date Rent is due under paragraph 4, or prevent Landlord from exercising any other rights and remedies under this agreement, and as provided by law.

11. CONDITION OF PREMISES: Tenant has examined the Premises and acknowledges that Premise is clean and in operative condition, with the following exceptions: see 40 - other terms + conditions. Items listed as exceptions shall be dealt with in the following manner: _____

12. ZONING AND LAND USE: Tenant accepts the Premises subject to all local, state and federal laws, regulations and ordinances ("Laws"). Landlord makes no representation or warranty that Premises are now or in the future will be suitable for Tenant's use. Tenant has made its own investigation regarding all applicable Laws.

13. TENANT OPERATING EXPENSES: Tenant agrees to pay for all utilities and services directly billed to Tenant water paid by landlord

14. PROPERTY OPERATING EXPENSES:

A. Tenant agrees to pay its proportionate share of Landlord's estimated monthly property operating expenses, including but not limited to, common area maintenance, consolidated utility and service bills, insurance, and real property taxes, based on the ratio of the square footage of the Premises to the total square footage of the rentable space in the entire property.

OR B. (if checked) Paragraph 14 does not apply.

15. USE: The Premises are for the sole use as The Red Wagon - Sewing and crafting studio. No other use is permitted without Landlord's prior written consent. If any use by Tenant causes an increase in the premium on Landlord's existing property insurance, Tenant shall pay for the increased cost. Tenant will comply with all Laws affecting its use of the Premises.

16. RULES/REGULATIONS: Tenant agrees to comply with all rules and regulations of Landlord (and, if applicable, Owner's Association) that are at any time posted on the Premises or delivered to Tenant. Tenant shall not, and shall ensure that guests and licensees of Tenant do not, disturb, annoy, endanger, or interfere with other tenants of the building or neighbors, or use the Premises for any unlawful purposes, including, but not limited to, using, manufacturing, selling, storing, or transporting illicit drugs or other contraband, or violate any law or ordinance, or committing a waste or nuisance on or about the Premises.

17. MAINTENANCE:

A. Tenant OR (if checked, Landlord) shall professionally maintain the Premises including heating, air conditioning, electrical, plumbing and water systems, if any, and keep glass, windows and doors in operable and safe condition. Unless Landlord is checked, if Tenant fails to maintain the Premises, Landlord may contract for or perform such maintenance, and charge Tenant for Landlord's cost.

B. Landlord OR (if checked, Tenant) shall maintain the roof, foundation, exterior walls, common areas and _____

Landlord's Initials (KM) (_____)

Tenant's Initials ([Signature])

CL REVISED 12/15 (PAGE 2 of 6)

COMMERCIAL LEASE AGREEMENT (CL PAGE 2 OF 6)

Produced with zipForm® by zipLogix 18070 Fifteen Mile Road, Fraser, Michigan 48026 www.zipLogix.com

Clark Reed



Premises: 6360 Clark Rd

Date 1/29/16

18. ALTERATIONS: Tenant shall not make any alterations in or about the Premises, including installation of trade fixtures and signs, without Landlord's prior written consent, which shall not be unreasonably withheld. Any alterations to the Premises shall be done according to Law and with required permits. Tenant shall give Landlord advance notice of the commencement date of any planned alteration, so that Landlord, at its option, may post a Notice of Non-Responsibility to prevent potential liens against Landlord's interest in the Premises. Landlord may also require Tenant to provide Landlord with lien releases from any contractor performing work on the Premises. ~ see 240
19. GOVERNMENT IMPOSED ALTERATIONS: Any alterations required by Law as a result of Tenant's use shall be Tenant's responsibility. Landlord shall be responsible for any other alterations required by Law.
20. ENTRY: Tenant shall make Premises available to Landlord or Landlord's agent for the purpose of entering to make inspections, necessary or agreed repairs, alterations, or improvements, or to supply necessary or agreed services, or to show Premises to prospective or actual purchasers, tenants, mortgagees, lenders, appraisers, or contractors. Landlord and Tenant agree that 24 hours notice (oral or written) shall be reasonable and sufficient notice. In an emergency, Landlord or Landlord's representative may enter Premises at any time without prior notice.
21. SIGNS: Tenant authorizes Landlord to place a FOR SALE sign on the Premises at any time, and a FOR LEASE sign on the Premises within the 90 (or) day period preceding the termination of the agreement.
22. SUBLETTING/ASSIGNMENT: Tenant shall not sublet or encumber all or any part of Premises, or assign or transfer this agreement or any interest in it, without the prior written consent of Landlord, which shall not be unreasonably withheld. Unless such consent is obtained, any subletting, assignment, transfer, or encumbrance of the Premises, agreement, or tenancy, by voluntary act of Tenant, operation of law, or otherwise, shall be null and void, and, at the option of Landlord, terminate this agreement. Any proposed sublessee, assignee, or transferee shall submit to Landlord an application and credit information for Landlord's approval, and, if approved, sign a separate written agreement with Landlord and Tenant. Landlord's consent to any one sublease, assignment, or transfer, shall not be construed as consent to any subsequent sublease, assignment, or transfer, and does not release Tenant of Tenant's obligation under this agreement.
23. POSSESSION: If Landlord is unable to deliver possession of Premises on Commencement Date, such date shall be extended to the date on which possession is made available to Tenant. However, the expiration date shall remain the same as specified in paragraph 2. If Landlord is unable to deliver possession within 60 (or 5) calendar days after the agreed Commencement Date, Tenant may terminate this agreement by giving written notice to Landlord, and shall be refunded all Rent and security deposit paid.
24. TENANT'S OBLIGATIONS UPON VACATING PREMISES: Upon termination of agreement, Tenant shall: (i) give Landlord all copies of all keys or opening devices to Premises, including any common areas; (ii) vacate Premises and surrender it to Landlord empty of all persons and personal property; (iii) vacate all parking and storage spaces; (iv) deliver Premises to Landlord in the same condition as referenced in paragraph 11; (v) clean Premises; (vi) give written notice to Landlord of Tenant's forwarding address; and (vii) _____
- All improvements installed by Tenant, with or without Landlord's consent, become the property of Landlord upon termination. Landlord may nevertheless require Tenant to remove any such improvement that did not exist at the time possession was made available to Tenant.
25. BREACH OF CONTRACT/EARLY TERMINATION: In event Tenant, prior to expiration of this agreement, breaches any obligation in this agreement, abandons the premises, or gives notice of tenant's intent to terminate this tenancy prior to its expiration, in addition to any obligations established by paragraph 24, Tenant shall also be responsible for lost rent, rental commissions, advertising expenses, and painting costs necessary to ready Premises for re-rental. Landlord may also recover from Tenant: (i) the worth, at the time of award, of the unpaid Rent that had been earned until the time of award exceeds the amount of such rental loss the Tenant proves could have been reasonably avoided; and (ii) the worth, at the time of award, of the amount by which the unpaid Rent for the balance of the term after the time of award exceeds the amount of such rental loss that Tenant proves could be reasonably avoided. Landlord may elect to continue the tenancy in effect for so long as Landlord does not terminate Tenant's right to possession, by either written notice of termination of possession or by reletting the Premises to another who takes possession, and Landlord may enforce all Landlord's rights and remedies under this agreement, including the right to recover the Rent as it becomes due.
26. DAMAGE TO PREMISES: If, by no fault of Tenant, Premises are totally or partially damaged or destroyed by fire, earthquake, accident or other casualty, Landlord shall have the right to restore the Premises by repair or rebuilding. If Landlord elects to repair or rebuild, and is able to complete such restoration within 90 days from the date of damage, subject to the terms of this paragraph, this agreement shall remain in full force and effect. If Landlord is unable to restore the Premises within this time, or if Landlord elects not to restore, then either Landlord or Tenant may terminate this agreement by giving the other written notice. Rent shall be abated as of the date of damage. The abated amount shall be the current monthly Base Rent prorated on a 30-day basis. If this agreement is not terminated, and the damage is not repaired, then Rent shall be reduced based on the extent to which the damage interferes with Tenant's reasonable use of the Premises. If total or partial destruction or damage occurs as a result of an act of Tenant or Tenant's guests, (i) only Landlord shall have the right, at Landlord's sole discretion, within 30 days after such total or partial destruction or damage to treat the lease as terminated by Tenant, and (ii) Landlord shall have the right to recover damages from Tenant.
27. HAZARDOUS MATERIALS: Tenant shall not use, store, generate, release or dispose of any hazardous material on the Premises or the property of which the Premises are part. However, Tenant is permitted to make use of such materials that are required to be used in the normal course of Tenant's business provided that Tenant complies with all applicable Laws related to the hazardous materials. Tenant is responsible for the cost of removal and remediation, or any clean-up of any contamination caused by Tenant.
28. CONDEMNATION: If all or part of the Premises is condemned for public use, either party may terminate this agreement as of the date possession is given to the condemner. All condemnation proceeds, exclusive of those allocated by the condemner to Tenant's relocation costs and trade fixtures, belong to Landlord.
29. INSURANCE: Tenant's personal property, fixtures, equipment, inventory and vehicles are not insured by Landlord against loss or damage due to fire, theft, vandalism, rain, water, criminal or negligent acts of others, or any other cause. Tenant is to carry Tenant's own property insurance to protect Tenant from any such loss. In addition, Tenant shall carry (i) liability insurance in an amount of not less than \$ 1,000,000.00 and (ii) property insurance in an amount sufficient to cover the replacement cost of the property if Tenant is responsible for maintenance under paragraph 17B. Tenant's insurance shall name Landlord and Landlord's agent as additional insured. Tenant, upon Landlord's request, shall provide Landlord with a certificate of insurance establishing Tenant's compliance. Landlord shall maintain liability insurance insuring Landlord, but not Tenant, in an amount of at least \$ _____, plus property insurance in an amount sufficient to cover the replacement cost of the property unless Tenant is responsible for maintenance pursuant to paragraph 17B. Tenant is advised to carry business interruption insurance in an amount at least sufficient to cover Tenant's complete rental obligation to Landlord. Landlord is advised to obtain a policy of rental loss insurance. Both Landlord and Tenant release each other, and waive their respective rights to subrogation against each other, for loss or damage covered by insurance.

Landlord's Initials (K) (_____)

Tenant's Initials ([Signature]) ([Signature])

CL REVISED 12/16 (PAGE 3 OF 6)

COMMERCIAL LEASE AGREEMENT (CL PAGE 3 OF 6)

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Clark Road



Premises: 63100 Clark Rd

Date 1/29/16

- 30. **TENANCY STATEMENT (ESTOPPEL CERTIFICATE):** Tenant shall execute and return a tenancy statement (estoppel certificate), delivered to Tenant by Landlord or Landlord's agent, within 3 days after its receipt. The tenancy statement shall acknowledge that this agreement is unmodified and in full force, or in full force as modified, and state the modifications. Failure to comply with this requirement: (i) shall be deemed Tenant's acknowledgment that the tenancy statement is true and correct, and may be relied upon by a prospective lender or purchaser; and (ii) may be treated by Landlord as a material breach of this agreement. Tenant shall also prepare, execute, and deliver to Landlord any financial statement (which will be held in confidence) reasonably requested by a prospective lender or buyer.
- 31. **LANDLORD'S TRANSFER:** Tenant agrees that the transferee of Landlord's interest shall be substituted as Landlord under this agreement. Landlord will be released of any further obligation to Tenant regarding the security deposit, only if the security deposit is returned to Tenant upon such transfer, or if the security deposit is actually transferred to the transferee. For all other obligations under this agreement, Landlord is released of any further liability to Tenant, upon Landlord's transfer.
- 32. **SUBORDINATION:** This agreement shall be subordinate to all existing liens and, at Landlord's option, the lien of any first deed of trust or first mortgage subsequently placed upon the real property of which the Premises are a part, and to any advances made on the security of the Premises, and to all renewals, modifications, consolidations, replacements, and extensions. However, as to the lien of any deed of trust or mortgage entered into after execution of this agreement, Tenant's right to quiet possession of the Premises shall not be disturbed if Tenant is not in default and so long as Tenant pays the Rent and observes and performs all of the provisions of this agreement, unless this agreement is otherwise terminated pursuant to its terms. If any mortgagee, trustee, or ground lessor elects to have this agreement placed in a security position prior to the lien of a mortgage, deed of trust, or ground lease, and gives written notice to Tenant, this agreement shall be deemed prior to that mortgage, deed of trust, or ground lease, or the date of recording.
- 33. **TENANT REPRESENTATIONS; CREDIT:** Tenant warrants that all statements in Tenant's financial documents and rental application are accurate. Tenant authorizes Landlord and Broker(s) to obtain Tenant's credit report at time of application and periodically during tenancy in connection with approval, modification, or enforcement of this agreement. Landlord may cancel this agreement: (i) before occupancy begins, upon disapproval of the credit report(s); or (ii) at any time, upon discovering that information in Tenant's application is false. A negative credit report reflecting on Tenant's record may be submitted to a credit reporting agency, if Tenant fails to pay Rent or comply with any other obligation under this agreement.
- 34. **CONSTRUCTION-RELATED ACCESSIBILITY STANDARDS:** Landlord states that the Premises has, or has not been inspected by a Certified Access Specialist. If so, Landlord states that the Premises has, or has not been determined to meet all applicable construction-related accessibility standards pursuant to Civil Code Section 55.53.
- 35. **DISPUTE RESOLUTION:**
 - A. **MEDIATION:** Tenant and Landlord agree to mediate any dispute or claim arising between them out of this agreement, or any resulting transaction, before resorting to arbitration or court action, subject to paragraph 35B(2) below. Paragraphs 35B(2) and (3) apply whether or not the arbitration provision is initiated. Mediation fees, if any, shall be divided equally among the parties involved. If for any dispute or claim to which this paragraph applies, any party commences an action without first attempting to resolve the matter through mediation, or refuses to mediate after a request has been made, then that party shall not be entitled to recover attorney fees, even if they would otherwise be available to that party in any such action. THIS MEDIATION PROVISION APPLIES WHETHER OR NOT THE ARBITRATION PROVISION IS INITIALED.
 - B. **ARBITRATION OF DISPUTES:** (1) Tenant and Landlord agree that any dispute or claim in Law or equity arising between them out of this agreement or any resulting transaction, which is not settled through mediation, shall be decided by neutral, binding arbitration, including and subject to paragraphs 35B(2) and (3) below. The arbitrator shall be a retired judge or justice, or an attorney with at least 5 years of real estate transactional law experience, unless the parties mutually agree to a different arbitrator, who shall render an award in accordance with substantive California Law. In all other respects, the arbitration shall be conducted in accordance with Part III, Title 9 of the California Code of Civil Procedure. Judgment upon the award of the arbitrator(s) may be entered in any court having jurisdiction. The parties shall have the right to discovery in accordance with Code of Civil Procedure §1283.05.
 - (2) **EXCLUSIONS FROM MEDIATION AND ARBITRATION:** The following matters are excluded from Mediation and Arbitration hereunder: (i) a judicial or non-judicial foreclosure or other action or proceeding to enforce a deed of trust, mortgage, or installment land sale contract as defined in Civil Code §2985; (ii) an unlawful detainer action; (iii) the filing or enforcement of a mechanic's lien; (iv) any matter that is within the jurisdiction of a probate, small claims, or bankruptcy court; and (v) an action for bodily injury or wrongful death, or for latent or patent defects to which Code of Civil Procedure §337.1 or §337.15 applies. The filing of a court action to enable the recording of a notice of pending action, for order of attachment, receivership, injunction, or other provisional remedies, shall not constitute a violation of the mediation and arbitration provisions.
 - (3) **BROKERS:** Tenant and Landlord agree to mediate and arbitrate disputes or claims involving either or both Brokers, provided either or both Brokers shall have agreed to such mediation or arbitration, prior to, or within a reasonable time after the dispute or claim is presented to Brokers. Any election by either or both Brokers to participate in mediation or arbitration shall not result in Brokers being deemed parties to the agreement.

"NOTICE: BY INITIALING IN THE SPACE BELOW YOU ARE AGREEING TO HAVE ANY DISPUTE ARISING OUT OF THE MATTERS INCLUDED IN THE 'ARBITRATION OF DISPUTES' PROVISION DECIDED BY NEUTRAL ARBITRATION AS PROVIDED BY CALIFORNIA LAW AND YOU ARE GIVING UP ANY RIGHTS YOU MIGHT POSSESS TO HAVE THE DISPUTE LITIGATED IN A COURT OR JURY TRIAL. BY INITIALING IN THE SPACE BELOW YOU ARE GIVING UP YOUR JUDICIAL RIGHTS TO DISCOVERY AND APPEAL, UNLESS THOSE RIGHTS ARE SPECIFICALLY INCLUDED IN THE 'ARBITRATION OF DISPUTES' PROVISION. IF YOU REFUSE TO SUBMIT TO ARBITRATION AFTER AGREEING TO THIS PROVISION, YOU MAY BE COMPELLED TO ARBITRATE UNDER THE AUTHORITY OF THE CALIFORNIA CODE OF CIVIL PROCEDURE, YOUR AGREEMENT TO THIS ARBITRATION PROVISION IS VOLUNTARY."

"WE HAVE READ AND UNDERSTAND THE FOREGOING AND AGREE TO SUBMIT DISPUTES ARISING OUT OF THE MATTERS INCLUDED IN THE 'ARBITRATION OF DISPUTES' PROVISION TO NEUTRAL ARBITRATION."

Landlord's Initials KL Tenant's Initials [Signature]

Landlord's Initials (KL)

Tenant's Initials ([Signature])



CL REVISED 12/15 (PAGE 4 of 6)

COMMERCIAL LEASE AGREEMENT (CL PAGE 4 OF 6)

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Clark Rusli

Premises: 6360 Clark Rd Date 1/29/16

38. JOINT AND INDIVIDUAL OBLIGATIONS: If there is more than one Tenant, each one shall be individually and completely responsible for the performance of all obligations of Tenant under this agreement, jointly with every other Tenant, and individually, whether or not in possession.

37. NOTICE: Notices may be served by mail, facsimile, or courier at the following address or location, or at any other location subsequently designated:

Landlord: Paradise Irrigation District
6332 Clark Road
Paradise, CA 95969

Tenant: Demeter, Joseph, Chavez
6360 Clark Road
Paradise, CA 95969

Notice is deemed effective upon the earliest of the following: (I) personal receipt by either party or their agent; (II) written acknowledgement of notice; or (III) 5 days after mailing notice to such location by first class mail, postage pre-paid.

38. WAIVER: The waiver of any breach shall not be construed as a continuing waiver of the same breach or a waiver of any subsequent breach.

39. INDEMNIFICATION: Tenant shall indemnify, defend and hold Landlord harmless from all claims, disputes, litigation, judgments and attorney fees arising out of Tenant's use of the Premises.

40. OTHER TERMS AND CONDITIONS/SUPPLEMENTS: For mutually agreed upon rent reduction from \$50 to \$500
per month for one year lease, tenants have agreed to the following improvements to be
completed at their cost:

- 1) Remove all carpeting + flooring and replace with new
 - 2) Prep and paint the exterior interior
 - 3) Full interior clean including windows
 - 4) Replace all door seals and gaskets
 - 5) Add lighting
- tenants are responsible for grounds maintenance including blowing roof of leaves + needles
- Parking allowed on "both" sides of building - hot + gravel

The following ATTACHED supplements/exhibits are incorporated in this agreement: Option Agreement (C.A.R. Form OA)

41. ATTORNEY FEES: In any action or proceeding arising out of this agreement, the prevailing party between Landlord and Tenant shall be entitled to reasonable attorney fees and costs from the non-prevailing Landlord or Tenant, except as provided in paragraph 35A.

42. ENTIRE CONTRACT: Time is of the essence. All prior agreements between Landlord and Tenant are incorporated in this agreement, which constitutes the entire contract. It is intended as a final expression of the parties' agreement, and may not be contradicted by evidence of any prior agreement or contemporaneous oral agreement. The parties further intend that this agreement constitutes the complete and exclusive statement of its terms, and that no extrinsic evidence whatsoever may be introduced in any judicial or other proceeding, if any, involving this agreement. Any provision of this agreement that is held to be invalid shall not affect the validity or enforceability of any other provision in this agreement. This agreement shall be binding upon, and inure to the benefit of, the heirs, assignees and successors to the parties.

43. BROKERAGE: Landlord and Tenant shall each pay to Broker(s) the fee agreed to, if any, in a separate written agreement. Neither Tenant nor Landlord has utilized the services of, or for any other reason owes compensation to, a licensed real estate broker (individual or corporate), agent, finder, or other entity, other than as named in this agreement, in connection with any act relating to the Premises, including, but not limited to, inquiries, introductions, consultations, and negotiations leading to this agreement. Tenant and Landlord each agree to indemnify, defend and hold harmless the other, and the Brokers specified herein, and their agents, from and against any costs, expenses, or liability for compensation claimed inconsistent with the warranty and representation in this paragraph 43.

44. AGENCY CONFIRMATION: The following agency relationships are hereby confirmed for this transaction:
Listing Agent: CB Properties (Print Firm Name) is the agent of (check one):
 the Landlord exclusively; or both the Tenant and Landlord.
Selling Agent: CB Properties (Print Firm Name) (if not same as Listing Agent) is the agent of (check one):
 the Tenant exclusively; or the Landlord exclusively; or both the Tenant and Landlord.
Real Estate Brokers are not parties to the agreement between Tenant and Landlord.

Landlord's Initials (KMD) (_____)

Tenant's Initials (JC) (JC)

CL REVISED 12/15 (PAGE 5 of 6)

COMMERCIAL LEASE AGREEMENT (CL PAGE 5 OF 6)

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Clark Road

Premises: 6300 Clark Rd Date 1/29/16

Landlord and Tenant acknowledge and agree that Brokers: (i) do not guarantee the condition of the Premises; (ii) cannot verify representations made by others; (iii) will not verify zoning and land use restrictions; (iv) cannot provide legal or tax advice; (v) will not provide other advice or information that exceeds the knowledge, education or experience required to obtain a real estate license. Furthermore, if Brokers are not also acting as Landlord in this agreement, Brokers: (vi) do not decide what rental rate a Tenant should pay or Landlord should accept; and (vii) do not decide upon the length or other terms of tenancy. Landlord and Tenant agree that they will seek legal, tax, insurance, and other desired assistance from appropriate professionals.

Tenant [Signature] Date 1/29/16
Jennifer Chavez
(Print name) _____
Address _____ City Paradise State Ca Zip 95969

Tenant [Signature] Date 1/29/16
Joseph Chavez
(Print name) _____
Address _____ City _____ State _____ Zip _____

GUARANTEE: In consideration of the execution of this Agreement by and between Landlord and Tenant and for valuable consideration, receipt of which is hereby acknowledged, the undersigned ("Guarantor") does hereby: (i) guarantee unconditionally to Landlord and Landlord's agents, successors and assigns, the prompt payment of Rent or other sums that become due pursuant to this Agreement, including any and all court costs and attorney fees included in enforcing the Agreement; (ii) consent to any changes, modifications or alterations of any term in this Agreement agreed to by Landlord and Tenant; and (iii) waive any right to require Landlord and/or Landlord's agents to proceed against Tenant for any default occurring under this Agreement before seeking to enforce this Guarantee.

Guarantor (Print Name) _____ Date _____
Guarantor _____
Address _____ City _____ State _____ Zip _____
Telephone _____ Fax _____ E-mail _____

Landlord agrees to rent the Premises on the above terms and conditions.

Landlord [Signature] Date _____
(owner or agent with authority to enter into this agreement)
Address _____ City _____ State _____ Zip _____

Landlord _____ Date _____
(owner or agent with authority to enter into this agreement)
Address _____ City _____ State _____ Zip _____

Agency relationships are confirmed as above. Real estate brokers who are not also Landlord in this agreement are not a party to the agreement between Landlord and Tenant.

Real Estate Broker (Leasing Firm) CB Properties CalBRE Lic. # 01187597
By (Agent) [Signature] CalBRE Lic. # 01187597 Date _____
Christy Van Atta
Address 5848 Skyway, Suite 1 City Paradise State CA Zip 95969
Telephone (530)877-8400 Fax (530)877-6472 E-mail cbproperties@pacbell.net

Real Estate Broker (Listing Firm) _____ CalBRE Lic. # _____
By (Agent) _____ CalBRE Lic. # _____ Date _____
Address _____ City _____ State _____ Zip _____
Telephone _____ Fax _____ E-mail _____

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CL REVISED 12/15 (PAGE 6 of 6)

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Clark Reed



PARADISE IRRIGATION DISTRICT

RESOLUTION NO. 2019-09

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE PARADISE IRRIGATION DISTRICT ADOPTING THE BUTTE COUNTY LOCAL HAZARD MITIGATION PLAN

The Paradise Irrigation District does hereby resolve as follows:

Whereas, Paradise Irrigation District recognizes the threat that natural hazards pose to people and property within our community; and

Whereas, undertaking hazard mitigation actions will reduce the potential for harm to people and property from future hazard occurrences; and

Whereas, the U.S. Congress passed the Disaster Mitigation Act of 2000 (“Disaster Mitigation Act”) emphasizing the need for pre-disaster mitigation of potential hazards;

Whereas, the Disaster Mitigation Act made available hazard mitigation grants to state and local governments;

Whereas, an adopted Local Hazard Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs; and

Whereas, the Paradise Irrigation District fully participated in the FEMA- prescribed mitigation planning process to prepare this local hazard mitigation plan; and

Whereas, the California Office of Emergency Services and Federal Emergency Management Agency, Region IX officials have reviewed the Butte County Local Hazard Mitigation Plan and approved it contingent upon this official adoption of the participating governing body;

Whereas, the Paradise Irrigation District desires to comply with the requirements of the Disaster Mitigation Act and to augment its emergency planning efforts by formally adopting the Butte County Local Hazard Mitigation Plan;

Whereas, adoption by the governing body for the Paradise Irrigation District, demonstrates the jurisdiction’s commitment to fulfilling the mitigation goals and objectives outlined in this Local Hazard Mitigation Plan.

Whereas, adoption of this legitimacies the plan and authorizes responsible agencies to carry out their responsibilities under the plan.

Now, therefore, be it resolved, that the Paradise Irrigation District adopts the Butte County Local Hazard Mitigation Plan as an official plan; and

Be it resolved, that the Paradise Irrigation District adopts the Butte County Local Hazard Mitigation Plan by reference into the safety element of their general plan in accordance with the requirements of AB 2140, and

Be it further resolved, the Paradise Irrigation District will submit this adoption resolution to the California Office of Emergency Services and FEMA Region IX officials to enable the plan's final approval in accordance with the requirements of the Disaster Mitigation Act of 2000 and to establish conformance with the requirements of AB 2140.

Passed and adopted this 18th day of December 2019 by the following vote at a regular meeting of the Board of Directors.

AYES:

NOES:

ABSENT:

ABSTENTIONS:

PARADISE IRRIGATION DISTRICT

Marc Sulik, President

ATTEST:

Georgeanna Borrayo, Secretary



Annex F Paradise Irrigation District

F.1 Introduction

This Annex details the hazard mitigation planning elements specific to Paradise Irrigation District (PID or District), a previously participating jurisdiction to the 2014 Butte County Local Hazard Mitigation Plan (LHMP) Update. This Annex is not intended to be a standalone document, but appends to and supplements the information contained in the Base Plan document. As such, all sections of the Base Plan, including the planning process and other procedural requirements apply to and were met by the PID. This Annex provides additional information specific to the District, with a focus on providing additional details on the risk assessment and mitigation strategy for the PID.

F.2 Planning Process

As described above, the PID followed the planning process detailed in Chapter 3 of the Base Plan. In addition to providing representation on the Butte County Hazard Mitigation Planning Committee (HMPC), the District formulated their own internal planning team to support the broader planning process requirements. Internal planning participants, their positions, and how they participated in the planning process are shown in Table F-1. Additional details on plan participation and District representatives are included in Appendix A.

Table F-1 PID Planning Team

Name	Position/Title	How Participated
Kevin Phillips	District Manager	Planning and implementation. Provided data and reviewed drafts
Jim Ladrini	Distribution Superintendent	Planning and implementation
Bill Taylor	Water Treatment Superintendent	Planning and implementation

Coordination with other community planning efforts is paramount to the successful implementation of this LHMP. This section provides information on how the District integrated the previously approved 2014 Plan into existing planning mechanisms and programs. Specifically, the PID incorporated into or implemented the 2014 LHMP through other plans and programs shown in Table F-2.

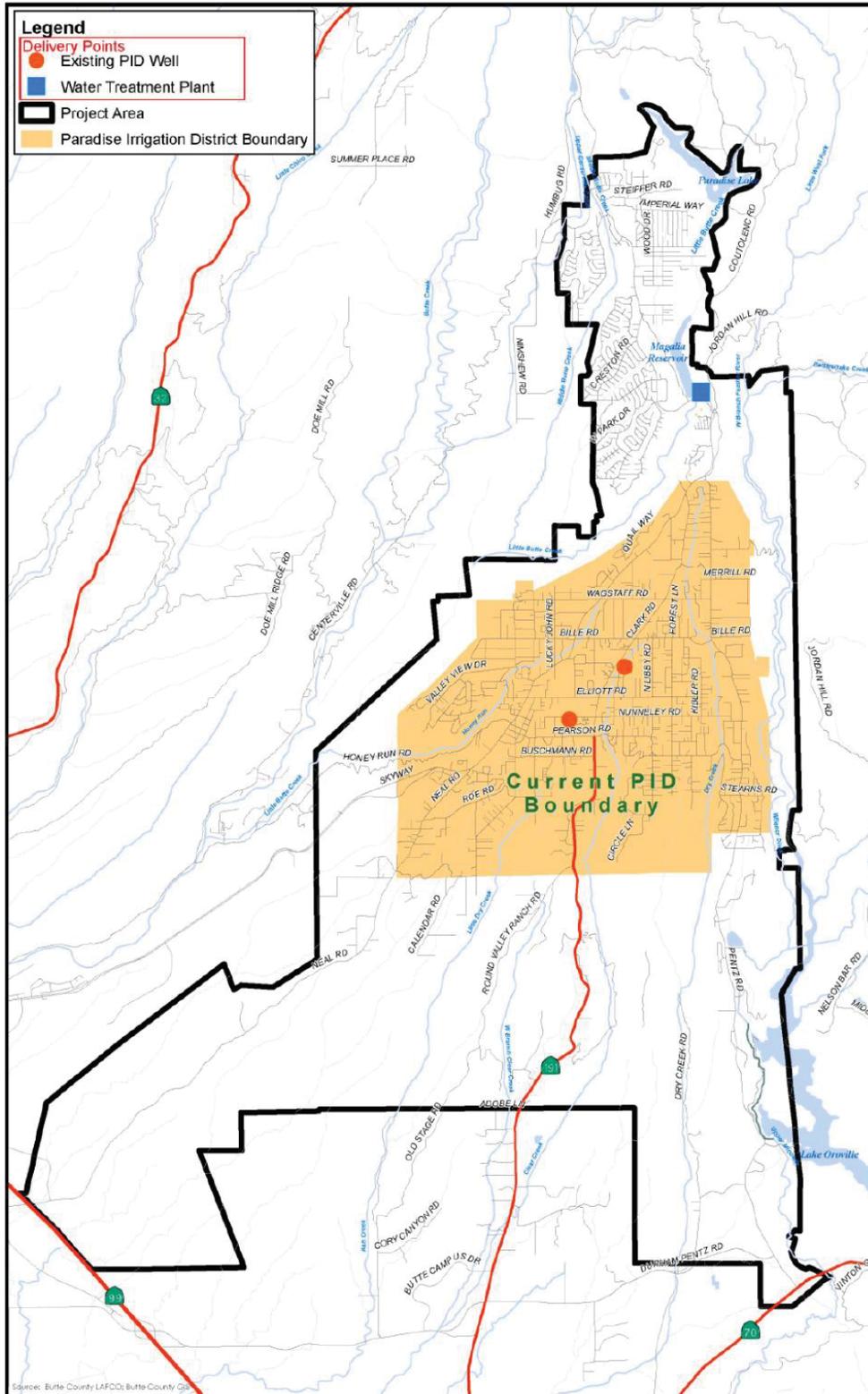
Table F-2 2014 LHMP Incorporation

Planning Mechanism 2014 LHMP Was Incorporated/Implemented In.	Details: How was it incorporated?
Public Agency Capital Improvement Plan	The District replaced approximately 5 miles of pipe within the District
Drought Planning through the District's strategic Business Plan, Capital Improvement Plan and Urban Water Management Plan	The District replaced leaking pipelines and designed a replacement of the B-Reservoir to increase storage.

F.3 District Profile

The community profile for the PID is detailed in the following sections. Figure F-1 displays a map and the location of the District within Butte County.

Figure F-1 Paradise Irrigation District Boundaries



Source: PID 2015 Urban Water Management Plan

F.3.1. Overview and Background

The Paradise Irrigation District was formed in 1916. The District purchased water rights from Pacific Gas and Electric for \$14,000. The idea was that water would turn Paradise into the “Fruit Capital of California.” Once the District was formed there was much work to be done in order to bring water to the average citizen who had hopes of prospering as a California grower. In February of 1917 Paradise citizens voted 224 to 24 to tax themselves \$350,000 for a bond issue that would finance the building of pipelines and Magalia Dam. The assessed land value at that time was \$348,000. The optimistic outlook of Ridge residents soon became gloomy as the declaration of war against Germany came in April of 1917. Prices on everything went up, and steel was not available. Early settlers of this area had some very rough years and several residents lost their land due to unpaid tax assessments during the years of World War I, World War II, and the Depression. In 1956, the Paradise Dam was built for just under \$1 million dollars.

Remedial works were completed on Magalia Dam in 1964. The work consisted of stabilizing the existing dam by adding fill material to flatten the downstream slope of the western section below the county road. Approximately 13,000 cubic yards of earth were utilized in the reconstruction. Also 3,200 cubic yards of crushed drain and transition rock were placed on the bottom 3 to 8 feet of the embankment. The Bechtel Corporation served as engineer for the District and District personnel and equipment were used whenever possible. Paradise Dam was raised an additional 24.5 feet in 1976 increasing the available storage to 11,497 acre-feet. A water filtration plant was added to the District's water system in 1986 due to the increased turbidity within the reservoirs during the winter months. In January of 1995 the new treatment plant was completed and placed in service. The new filtration plant has the capacity to treat 22.8 million gallons per day.

F.4 Hazard Identification

PID’s planning team identified the hazards that affect the District and summarized their location, extent, frequency of occurrence, potential magnitude, and significance specific to the District (see Table F-3).

Table F-3 Paradise Irrigation District – Hazard Identification Assessment

Hazard	Geographic Extent	Likelihood of Future Occurrences	Magnitude/Severity	Significance	Climate Change Influence
Climate Change	Extensive	Likely	Limited	Low	–
Dam Failure	Extensive	Unlikely	Catastrophic	High	Medium
Drought & Water shortage	Extensive	Likely	Catastrophic	High	High
Earthquake	Extensive	Unlikely	Catastrophic	High	Low
Floods: 100/200/500 year	Limited	Occasional	Limited	Low	Medium
Floods: Localized Stormwater	Extensive	Likely	Catastrophic	Medium	Medium
Hazardous Materials Transportation	Limited	Unlikely	Negligible	Low	Low
Invasive Species: Aquatic	Limited	Occasional	Negligible	Low	Low
Invasive Species: Pests/Plants	Limited	Unlikely	Negligible	Low	Low
Landslide, Mudslide, and Debris Flow	Occasional	Unlikely	Catastrophic	Low	Medium
Levee Failure	Limited	Unlikely	Negligible	Low	Medium
Severe Weather: Extreme Heat	Extensive	Occasional	Negligible	Low	High
Severe Weather: Freeze and Winter Storm	Extensive	Occasional	Negligible	Medium	Medium
Severe Weather: Heavy Rain and Storms (Hail, Lightning)	Occasional	Likely	Catastrophic	Medium	Medium
Severe Weather: Wind and Tornado	Limited	Unlikely	Negligible	Low	Low
Stream Bank Erosion	Occasional	Occasional	Negligible	Low	Low
Volcano	Limited	Unlikely	Negligible	Low	Low
Wildfire	Extensive	Likely	Catastrophic	High	High
Geographic Extent Limited: Less than 10% of planning area Significant: 10-50% of planning area Extensive: 50-100% of planning area Likelihood of Future Occurrences Highly Likely: Near 100% chance of occurrence in next year, or happens every year. Likely: Between 10 and 100% chance of occurrence in next year, or has a recurrence interval of 10 years or less. Occasional: Between 1 and 10% chance of occurrence in the next year, or has a recurrence interval of 11 to 100 years. Unlikely: Less than 1% chance of occurrence in next 100 years, or has a recurrence interval of greater than every 100 years.	Magnitude/Severity Catastrophic—More than 50 percent of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths Critical—25-50 percent of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability Limited—10-25 percent of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability Negligible—Less than 10 percent of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid Significance Low: minimal potential impact Medium: moderate potential impact High: widespread potential impact Climate Change Influence Low: minimal potential impact Medium: moderate potential impact High: widespread potential impact				

F.5 Hazard Profile and Vulnerability Assessment

The intent of this section is to profile PID's hazards and assess the District's vulnerability separate from that of the Planning Area as a whole, which has already been assessed in Sections 4.2 Hazard Profiles and 4.3 Vulnerability Assessment in the Base Plan. The hazard profiles in the Base Plan discuss overall impacts to the Planning Area and describes the hazard problem description, hazard extent, magnitude/severity, previous occurrences of hazard events and the likelihood of future occurrences. Hazard profile information specific to the District is included in this Annex. This vulnerability assessment analyzes the property and other assets at risk to hazards ranked of medium or high significance specific to the District. For more information about how hazards affect the County as a whole, see Chapter 4 Risk Assessment in the Base Plan.

F.5.1. Hazard Profiles

Each hazard vulnerability assessment in Section F.5.3, includes a hazard profile/problem description as to how each medium or high significant hazard affects the District and includes information on past hazard occurrences. The intent of this section is to provide jurisdictional specific information on hazards and further describe how the hazards and risks differ across the Planning Area.

F.5.2. Vulnerability Assessment and Assets at Risk

This section identifies PID's total assets at risk, including values at risk, populations at risk, critical facilities and infrastructure, natural resources, and historic and cultural resources. Growth and development trends are also presented for the District. This data is not hazard specific but is representative of total assets at risk within the District.

Assets at Risk and Critical Facilities

This section considers the PID's assets at risk, with a focus on key District assets such as critical facilities, infrastructure, and other District assets and their values. With respect to District assets, the majority of these assets are considered critical facilities as defined for this Plan. Critical facilities are defined for this Plan as:

Any facility, including without limitation, a structure, infrastructure, property, equipment or service, that if adversely affected during a hazard event may result in severe consequences to public health and safety or interrupt essential services and operations for the community at any time before, during and after the hazard event.

Table F-4 lists critical facilities and other District assets identified by the PID planning team as important to protect in the event of a disaster. PID's physical assets, valued at over \$71 million, consist of the buildings and infrastructure to support PID's operations.

Table F-4 Paradise Irrigation District Critical Facilities, Infrastructure, and Other District Assets

Name of Asset	Facility Type	Replacement Value	Which Hazards Pose Risk
PID Treatment Plant	Water Treatment Plant	\$14,000,000	Earthquake and dam failure
PID Pumping Station	Treated Water Delivery Pumps	\$400,000	Earthquake, dam failure, wildfire
42-inch Transmission Pipeline	Above Ground Pipeline and Creek Crossing	\$90,000	Earthquake and dam failure
Paradise Dam	Dam	\$100,000,000	Earthquake and dam failure
Magalia Dam	Dam	\$30,000,000	Earthquake and dam failure
Diversion Dam	Raw Water Supply	\$3,000,000	Earthquake and dam failure
Water District Storage Tanks	Treated Water Delivery	\$24,000,000	Earthquake and Wildfire
Total		\$171,490,000	

Source: PID

Natural Resources

PID has a variety of natural resources of value to the District. These natural resources parallels that of the Town of Paradise as a whole. Information can be found in Section D.5.2 of the Town of Paradise Annex.

Historic and Cultural Resources

PID has a variety of historic and cultural resources of value to the District. These historic and cultural resources parallels that of the Town of Paradise as a whole. Information can be found in Section D.5.2 of the Town of Paradise Annex.

Growth and Development Trends

General growth in the District parallels that of the Town of Paradise as a whole. Information can be found in Section D.5.2 of the Town of Paradise Annex.

Development since 2014

No District facilities have been constructed since 2014.

Future Development

The District has no control over future development in areas the District provides water in. Future development in these areas parallels that of the Town of Paradise. Due to the Camp Fire, future development in Paradise is currently unclear. More general information on growth and development in

Butte County as a whole can be found in “Growth and Development Trends” in Section 4.3.1 Butte County Vulnerability and Assets at Risk of the Base Plan.

The District Planning Team noted that the District is in the process of investigating the opportunity to expand its service area to the west of the District boundaries. The expansion could include an intertie with Cal Water Chico to support the Vina Subbasin groundwater users.

F.5.3. Vulnerability to Specific Hazards

This section provides the hazard profile discussion and vulnerability assessment for those hazards identified above in Table F-3 as high or medium significance hazards. Impacts of past events and vulnerability of the District to specific hazards are further discussed below (see Section 4.1 Hazard Identification in the Base Plan for more detailed information about these hazards and their impacts on the Butte County Planning Area).

An estimate of the vulnerability of the PID to each identified priority hazard, in addition to the estimate of risk of future occurrence, is provided in each of the hazard-specific sections that follow. Vulnerability is measured in general, qualitative terms and is a summary of the potential impact based on past occurrences, spatial extent, and damage and casualty potential. It is categorized into the following classifications:

- **Extremely Low**—The occurrence and potential cost of damage to life and property is very minimal to nonexistent.
- **Low**—Minimal potential impact. The occurrence and potential cost of damage to life and property is minimal.
- **Medium**—Moderate potential impact. This ranking carries a moderate threat level to the general population and/or built environment. Here the potential damage is more isolated and less costly than a more widespread disaster.
- **High**—Widespread potential impact. This ranking carries a high threat to the general population and/or built environment. The potential for damage is widespread. Hazards in this category may have occurred in the past.
- **Extremely High**—Very widespread with catastrophic impact.

Dam Failure

Likelihood of Future Occurrence—Unlikely

Vulnerability—High

Hazard Profile and Problem Description

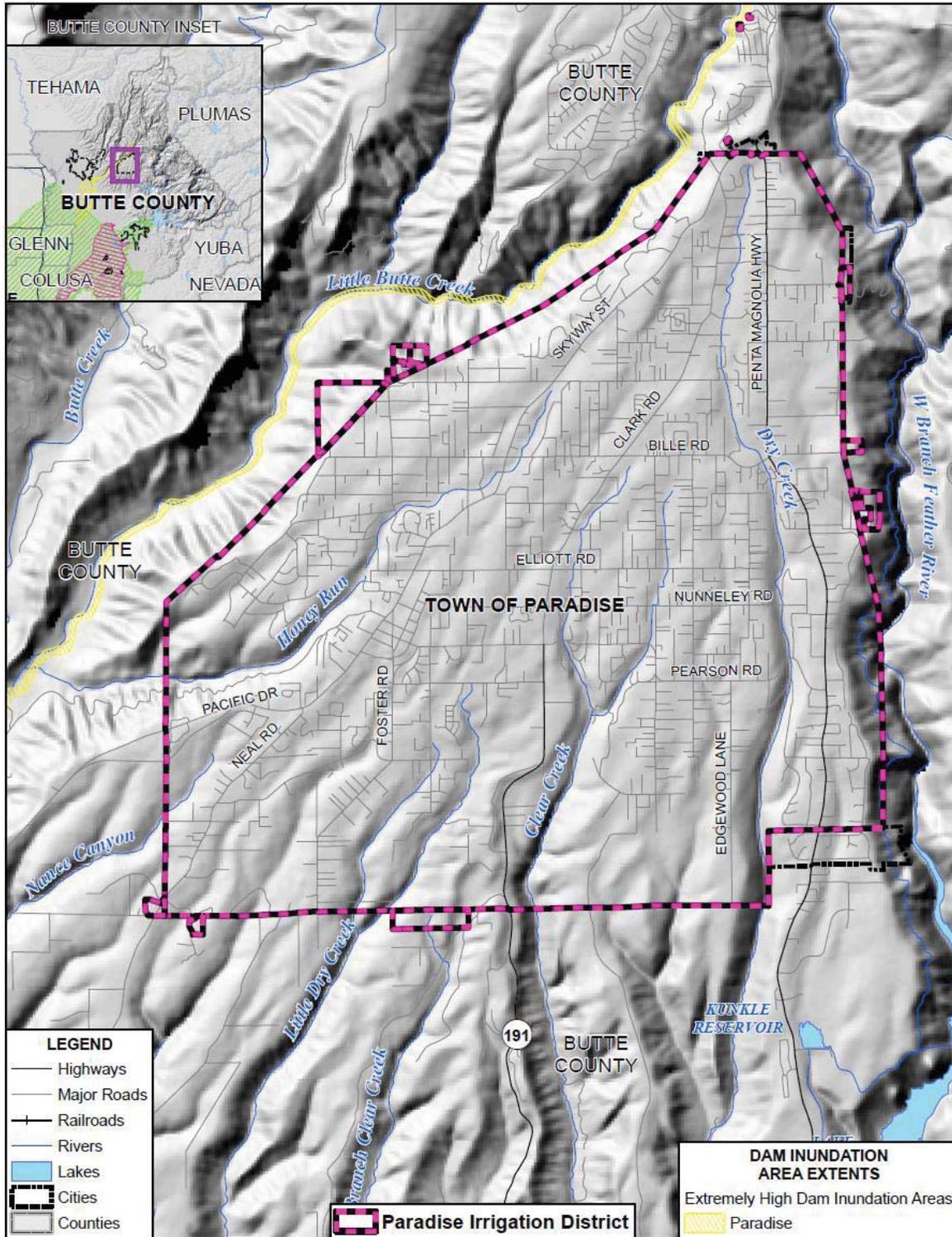
Dams are manmade structures built for a variety of uses including flood protection, power generation, agriculture, water supply, and recreation. When dams are constructed for flood protection, they are usually engineered to withstand a flood with a computed risk of occurrence. For example, a dam may be designed to contain a flood at a location on a stream that has a certain probability of occurring in any one year. If prolonged periods of rainfall and flooding occur that exceed the design requirements, that structure may be overtopped or fail. Overtopping is the primary cause of earthen dam failure in the United States.

Location and Extent

Paradise Irrigation District maintains two dams north of the Town of Paradise that impound stormwater flows in reservoirs used to provide drinking water to the community. The Skyway two lane road located on top of the dam is the primary access route into the Pines community (>10,000 residents). The upstream Paradise Reservoir is the main storage facility with a storage capacity of approximately 11,500 acre-feet. Magalia Reservoir was originally constructed with a storage capacity of 2,570 acre-feet.

Due to their location and proximity to the Town of Paradise, the Paradise dam is an extremely High classification and the Magalia is classified as a high hazard dam. There has been no history of failure of either of these two dams. Dam failure would affect mainly those living in the canyon and would likely have a limited effect on the Town of Paradise. Both of these dams had available inundation maps from Cal OES. District boundaries and dam inundation areas can be seen on Figure F-2, Figure F-3, and Figure F-4.

Figure F-2 Paradise Irrigation District – Extremely High Hazard Dam Inundation Areas

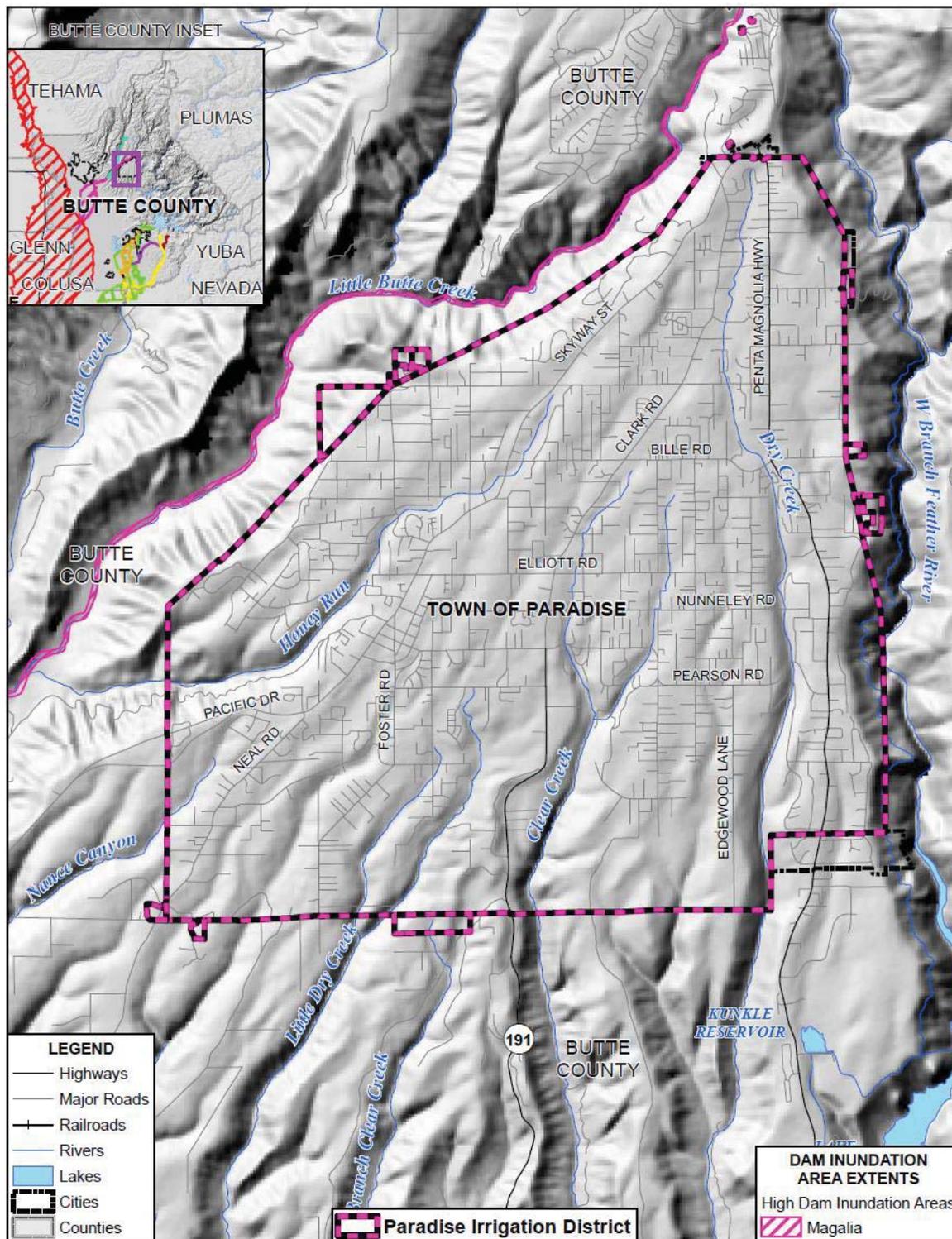


0 1 2 Miles



Data Source: Cal OES Dam Status 10/2017, Butte County GIS, Cal-Atlas; Map Date: 8/27/2019.

Figure F-3 Paradise Irrigation District – High Hazard Dam Inundation Areas

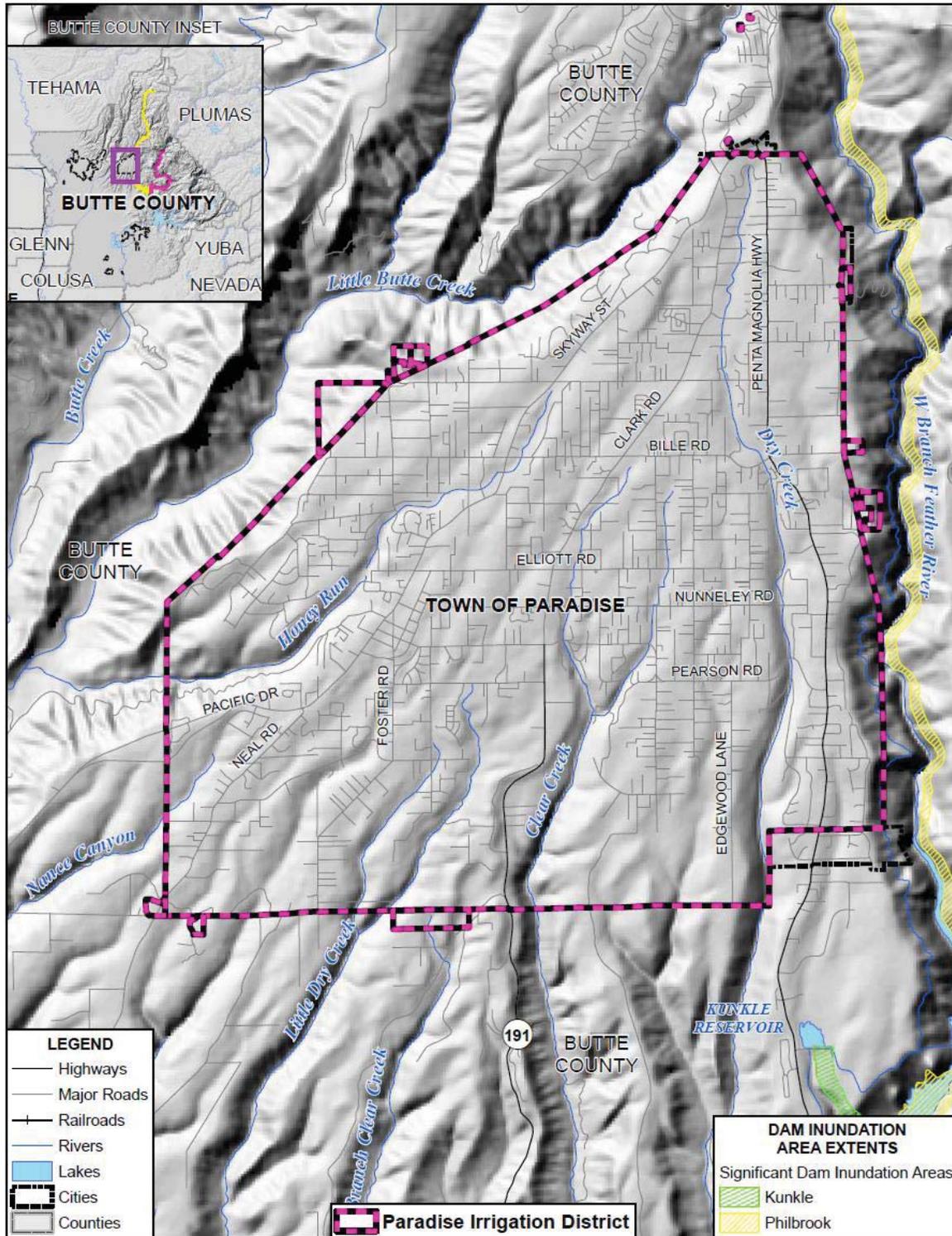


0 1 2 Miles



Data Source: Cal OES Dam Status 10/2017, Butte County GIS, Cal-Atlas; Map Date: 8/27/2019.

Figure F-4 Paradise Irrigation District – Significant Hazard Dam Inundation Areas



Data Source: Cal OES Dam Status 10/2017, Butte County GIS, Cal-Atlas; Map Date: 8/27/2019.

There is no scale with which to measure dam failure, just the hazard classification system for each dam. While a dam may fill slowly with runoff from winter storms, a dam break can have a very quick speed of onset. The duration of dam failure can vary depending on the nature of the dam break or failure.

Past Occurrences

The District Planning Team noted no past occurrences of dam failure that have affected the District.

Vulnerability and Impacts to Dam Failure

Dam failure flooding can occur as the result of partial or complete collapse of an impoundment. Dam failures often result from prolonged rainfall and flooding. The primary danger associated with dam failure is the high velocity flooding of those properties downstream of the dam.

A dam failure can range from a small, uncontrolled release to a catastrophic failure. Vulnerability to dam failures is generally confined to the areas subject to inundation downstream of the facility. Secondary losses would include loss of the multi-use functions of the facility and associated revenues that accompany those functions. Dam failure flooding would vary by community depending on which dam fails and the nature and extent of the dam failure and associated flooding.

Magalia Dam has been identified by the Division of Safety of Dams (DSOD) as at risk to failure in the event of significant seismic activity. In the event of such failure, floodwater would cause significant damages in the Little Butte Creek and Butte Creek Canyons and the town of Durham and exceed the capacity of the downstream Butte Creek levees. The Town of Paradise would be affected since the water treatment plant and the 42-inch supply line that provides drinking water for the residents in the community could be severely damaged since it is located at the downstream toe of the dam. The primary access road to the Pines Community would be eliminated and impact >10,000 residents. Reconstruction of the damaged facilities would be difficult, cause a significant water outage, take many months to restore, and the repair costs would be very high.

In a 1992 study of Magalia Dam it was concluded that the upstream slope of the dam was found to have inadequate stability under seismic loading conditions. In 1997 in response to this concern, the DSOD required the water storage in the reservoir to be decreased to 800 acre-feet. If stabilized, the capacity of Magalia Reservoir could be restored to 2,570 acre-feet. The change in water level elevation from 2,225 feet when full, was lowered to the current restricted operating level of 2,199 feet, or a reduction of 26 change feet. Each year the DSD conducts a dam inspection and the District prepares a “Surveillance Report”, with assistance from the URS Corporation.

In 2004, the PID constructed a diversion structure above Magalia Reservoir and a raw water pipeline to the water treatment plant. This improvement will supply untreated water to the treatment plant during any reconstruction of Magalia Dam, or the widening of Skyway across Magalia Dam. The PID is working on extending its water rights permits, which must be secured before further work is contemplated on Magalia Dam.

The applications for extending the District’s Water Rights were filed on time. The District hired a consultant to complete the CEQA process for the water rights renewal and Sphere of Influence expansion.

The District is in the process of completing an EIR for the water rights extension and sphere of influence expansion. The field work is completed, and the document is being developed.

The County did preliminary engineering on a project to widen the Skyway's two lanes to four lanes across Magalia Dam. The PID's preferred alternative for the widening project involves stabilizing the dam that would restore the design water level of 2,225 feet behind Magalia Dam, or 2,570 acre-feet.

Dam failure flooding presents a threat to life and property, including buildings, their contents, and their use. Large flood events can affect crops and livestock as well as lifeline utilities (e.g., water, sewerage, and power), transportation, jobs, tourism, the environment, and the local and regional economies.

Impacts to the PID from dam failure include damage to property and critical facilities. Other impacts include the costs to PID to rebuild any owned dam that failed. The District would also face the loss of water revenue if the reservoirs were drained.

Assets at Risk

Based on the dam failure inundation maps for the Magalia and Paradise Dams, the following District facilities would be at risk:

- PID Water Treatment Plant
- 42-inch Water Supply Transmission Pipeline
- The Skyway two-lane road on top of Magalia Dam

The following communities and the environment would be at risk:

- Town of Durham - 12 to 15 miles downstream with a population greater than 1000
- Little Butte Creek - Riparian environment
- Little Butte Canyon - 5 to 7 miles downstream with a population less than 1000
- Pines Community - adjacent to Magalia Dam with a population of greater than 10,000

Future Development

The District takes multiple factors into account, including dam inundation areas, when siting new projects. The District has potential projects to mitigate dam inundation for District property, as well as downstream facilities:

- Hazard assessment study
- Dam replacement

Drought & Water Shortage

Likelihood of Future Occurrence—Likely

Vulnerability—High

Hazard Profile and Problem Description

Drought is a gradual phenomenon. Although droughts are sometimes characterized as emergencies, they differ from typical emergency events. Most natural disasters, such as floods or wildfires, occur relatively rapidly and afford little time for preparing for disaster response. Droughts occur slowly, over a multi-year period, and it is often not obvious or easy to quantify when a drought begins and ends. Water districts normally require at least a 10-year planning horizon to implement a multiagency improvement project to mitigate the effects of a drought and water supply shortage.

Location and Extent

As discussed in the Base Plan, drought and water shortage are regional phenomenon. The whole of the County, as well as the whole of the PID, is at risk. Drought has a slow speed of onset and a variable duration. Drought can last for a short period of time, which does not usually affect water shortages. Should a drought last for a long period of time, water shortage becomes a larger issue.

Past Occurrences

Since drought is a regional phenomenon, past occurrences of drought for Paradise are similar to those for the County. Those past occurrences can be found in Section 4.2.8 of the Base Plan.

The District did note that PID's primary water supply system is reliant upon water captured and stored from Little Butte Creek. Little Butte Creek is a minor stream in the Sacramento Valley drainage that rises in the northwestern foothills of the Sierra Nevada and lies wholly within Butte County. Elevations range from 2,150 feet at the base of Magalia Dam to 3,850 feet at the uppermost elevation in the watershed. Flow in the catchment area is seasonal and responds to and follows the pattern of precipitation. Data for the runoff in the catchment area is from 1907 to 2004. The average annual runoff for the past 97 years has been approximately 15,750 acre-feet. The water year 1935-36 (estimated runoff 15,960 acre-feet) was used to represent the average year. The lowest estimated runoff was in the 1923-24 water year at 1,763 acre-feet. Average runoff far exceeds the District's current and projected needs of 7,000 to 8,000 acre-feet of water demand each year, although the District is vulnerable to potential water shortages during extended dry periods. The District's firm yield is 7,300 acre-feet plus 350 acre-feet from a well (groundwater).

Firm yield is defined as the amount of water that could be annually utilized from the Little Butte Creek system during a critical drought period. PID stores water from Little Butte Creek in two reservoirs located on the drainage. Magalia Reservoir originally had a storage capacity of 2,574 AF, but in 1997 the reservoir was drawn down to comply with safety requirements of DSOD. After drawdown, Magalia Reservoir has a storage capacity of 800 AF. Paradise Reservoir has a storage capacity of 11,497 AF. The total storage capacity of both reservoirs is 12,293 AF. The District has approximately 6,000 acre-feet of additional water rights that are not being utilized due to a lack of storage.

The District drilled a well in 1996. The output from the well is estimated to be 350 acre-feet per year but is operated annually at only 30 acre-feet per year to keep the well operational. The primary purpose of the well is to augment the District's water supply during times of drought or emergency. Ground water supply in the District's area is not expected to provide a significant source of water.

Vulnerability and Impacts to Drought and Water Shortage

Based on historical information, the occurrence of drought in California, including the District, is cyclical, driven by weather patterns. Drought has occurred in the past and will occur in the future. Periods of actual drought with adverse impacts can vary in duration, and the period between droughts is often extended. Although an area may be under an extended dry period, determining when it becomes a drought is based on impacts to individual water users. The vulnerability of the PID to drought is District-wide, but impacts may vary and include reduction in water supply and an increase in dry fuels. The increased dry fuels result in an increased fire danger. Areas of Paradise are in the foothill interface and become more susceptible to wildfire as drought conditions increase. Residents of these areas are often times dependent upon ground water (water wells), as these water wells begin to fail the ability of the residents to water landscaping decreases, fire fuel loads increase.

The most significant qualitative impacts associated with drought in the planning area are those related to water intensive activities such as wildfire protection, municipal usage, commerce, tourism, and recreation. Voluntary conservation measures are typically implemented during extended droughts. A reduction of electric power generation and water quality deterioration are also potential problems. Drought conditions can also cause soil to compact and not absorb water well, potentially making an area more susceptible to flooding.

Assets at Risk

The drought and water shortage impacts are thoroughly evaluated in the Paradise Irrigation District's 2015 Urban Water Management Plan, including a Water Shortage Contingency Plan and a Catastrophic Supply Interruption Plan. The District's 2012 updated Water System Emergency Response plan includes an Emergency Action Plan (EAP) for dam failure as well as EAPs for other natural disaster and man-made malevolent events.

Future Development

Future development of District facilities is unlikely to be affected by drought during the process of siting the project. The District has potential projects to mitigate drought's affects to District customers:

- Hydraulic Modeling of the water distribution
- Distribution system and water treatment plant upgrades
- Increase storage of the B-Reservoir
- Upsizing of Customer service-lines with backflow assemblies

Earthquake and Liquefaction

Likelihood of Future Occurrence–Unlikely

Vulnerability–High

Hazard Profile and Problem Description

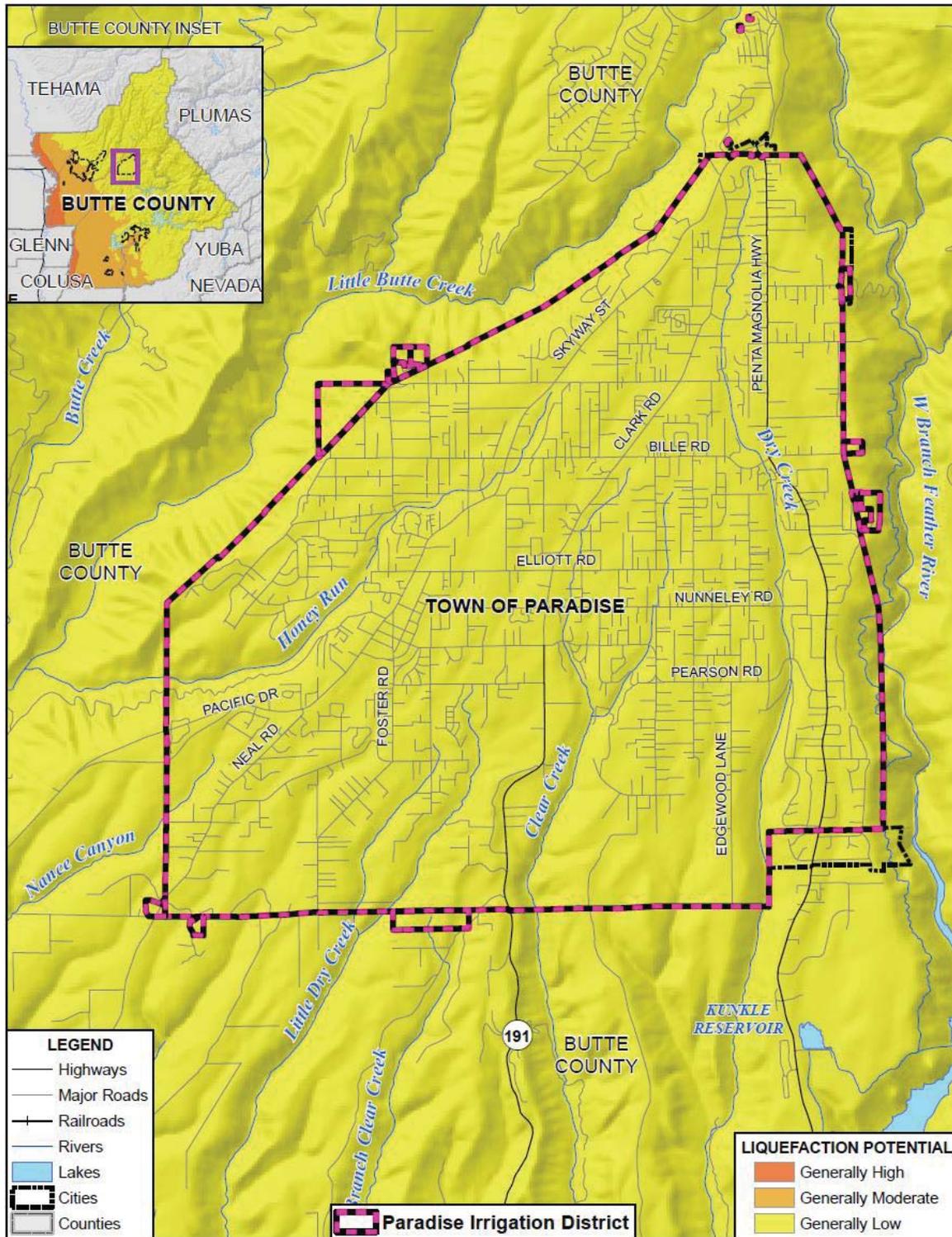
The State of California has identified five areas of critical seismic concern including surface ruptures, ground shaking, ground failure, tsunamis, and seiches. Each of these is caused by earthquake activity

thereby creating hazards for life and property, which has the potential anywhere in California. The District is not at risk for tsunamis or seiches due to its inland location and the absence of nearby large bodies of water. The only known active fault in Butte County is the Cleveland Hills fault, the site of the August 1975 Oroville earthquake. This earthquake had a Richter magnitude of 5.7. Due to the proximity of the District to the Cleveland Hills Fault, the District is at risk to an earthquake occurring on this fault. These earthquakes can cause liquefaction within the District. Liquefaction is a process whereby soil is temporarily transformed to a fluid formed during intense and prolonged ground shaking. In a 1992 study of Magalia Dam it was concluded that the upstream slope of the dam was found to have inadequate stability under seismic loading conditions. In 1997 the water level in the reservoir was lowered, due to seismic stability concerns. There is concern that the Magalia dam could fail under stress from seismic shaking.

Location and Extent

Since earthquakes are regional events, the whole of the District is at risk to earthquake. Hazus earthquake analysis for the region is shown in Section 4.3.6 of the Base Plan. PID and the surrounding area is located in a region of relatively low risk of earthquake occurrence. Additionally, the District is potentially at risk to liquefaction from earthquake shaking; the District falls within an area of generally low liquefaction potential. A map of liquefaction potential and District locations is shown on Figure F-5.

Figure F-5 Paradise Irrigation District – Liquefaction Areas



Data Source: Butte County General Plan 2030, Butte County GIS, Cal-Atlas; Map Date: 8/27/2019.

The amount of energy released during an earthquake is usually expressed as a magnitude and is measured directly from the earthquake as recorded on seismographs. An earthquake's magnitude is expressed in whole numbers and decimals (e.g., 6.8). Seismologists have developed several magnitude scales, as discussed in Section 4.2.10 of the Base Plan. Earthquake and liquefaction both have a short onset period, and the duration of shaking and liquefaction is short as well.

Past Occurrences

As shown in the Base Plan, only the 1975 5.7 magnitude Oroville earthquake that resulted in a federal disaster declaration has occurred in the County. The District was not affected by this earthquake. The HMPC noted no other past occurrences of earthquakes or liquefaction that affected the District in any meaningful way.

Vulnerability and Impacts to Earthquake

Earthquake vulnerability and impacts are primarily based on population and the built environment. Urban areas in high seismic hazard zones are the most vulnerable, while uninhabited areas are less vulnerable. The primary impacts of concern are life safety, property damage, and impacts to critical facilities and infrastructure, including the road system.

Ground shaking is the primary earthquake hazard. Many factors affect the survivability of structures and systems from earthquake-caused ground motions. These factors include proximity to the fault, direction of rupture, epicentral location and depth, magnitude, local geologic and soils conditions, types and quality of construction, building configurations and heights, and comparable factors that relate to utility, transportation, and other network systems.

The California DSOD is concerned that if the epicenter of an earthquake of significant magnitude were to occur nearby a dam, the likelihood of a structural failure is high. Local dams vulnerable to earthquake damage are hydraulic-filled embankment dams built with sluicing materials from an adjacent area and depositing the slurry into the embankment, such as the Magalia and De Salba Dams.

While not considered an active fault like the Cleveland Hills fault discussed above, there are a number of faults within Butte County and a large number of relatively nearby faults that could be considered potentially active, based on criteria developed by the California Mining and Geology Board. Following is a description of the active faults near the Magalia Dam. These faults are detailed below and include the following:

- **Magalia Fault.** The Magalia Fault is located near the northern end of the Foothill Fault System, a system of northwest trending east dipping normal fault formed along the margin of the Great Valley and the Sierra Nevada provinces. The DSOD, based on Fault Activity Guidelines in 2001 reclassified the Magalia Fault as conditionally active. The Paradise Irrigation District commissioned a study by Holdrege & Kull, dated January 2007 to evaluate the Magalia Fault.
- **Foothills Shear Zone.** The Foothills shear zone extends into southern Butte County. A possible magnitude 7.0 earthquake in this zone would result in intensities as high as IX in Butte County

In 2007, The District hired a consultant to determine the status of the Magalia Fault. The consultant's opinion was that the fault is inactive, but the DSOD would not accept the finding without additional studies. Below is information from the 2007 Fault Evaluation Report prepared by Holdrege and Kull.

Seismic studies were performed in 1973 and updated in 1992 by Harlan Tait Associates (HTA) to evaluate the potential for the hydraulic fill within the dam to liquefy under earthquake loading. The later HTA study concluded that the upstream slope was potentially unstable during seismic events and the Division of Safety of Dams (DOSD) required that the dam be strengthened or the water level behind the dam be lowered. DOSD performed their own evaluation of the dam and concluded that the reservoir be lowered to 35 feet below the crest of the dam. In 1994, Dames & Moore (D&M) performed an independent study for PID to further evaluate a safe reservoir level. D&M's study indicated that the reservoir would be safe if the water level was further reduced an additional 5 feet; lowering the reservoir to 40 feet below the crest of the dam. The DOSD accepted the findings and stipulated that the reservoir elevation be restricted to elevation 2,200 feet, above mean sea level (MSL).

A Feasibility Study was performed in 2002 by URS Corporation (URS) to further evaluate the restricted reservoir level as previously imposed by DSOD. The purpose of that study was to determine if it was possible to revise the restricted storage capacity of the reservoir. The scope of the study included review of the extensive amount of field and laboratory tests that were performed during previous investigations and additional static and dynamic analyses using current software and correction procedures for penetration resistance N1 (60)cs. URS concluded that the water elevation of the reservoir could be safely raised an additional 13 feet to elevation 2,213 feet, above MSL. The URS evaluation was based on an assumed magnitude 6.5 earthquake occurring on the Chico Monocline Fault with an 84th percentile peak ground acceleration (PGA) value of 0.34g.

However, based on the Fault Activity Guidelines established by DSOD in 2001, the Magalia Fault was reclassified as conditionally active in a DSOD memorandum dated July 1, 2002. Because the Magalia Fault was reclassified to be conditionally active, DSOD recommended that the 50th percentile PGA of 0.61g for the Magalia Fault be used to update previous static and dynamic analyses related to the Magalia Reservoir. The reservoir elevation is currently restricted to 2,199 feet above mean seal level.

Impacts to the District included damage to facilities and distribution lines. Dams owned by the District could also be impacted. Other impacts include damage to structures; critical infrastructure and facilities, and loss of life and injury to people in downstream dam areas.

Assets at Risk

Aging water distribution systems comprised of steel pipe requires ongoing replacement that is vulnerable to earthquake damage due to corrosion issues. The District identified 60 miles of pipe that should be replaced. District personnel installed 29,821 feet of mainline in the last five years. In addition to that, grant funding helped with the installation of 12,000 feet of mainline installed by a contractor. While the total fell short of the 5-year goal to complete the replacement of 75,000 feet, a deferral of mainline installation was realized with the freezing of three full-time positions and a dispute with the union over temporary worker status. Pipe replacement avoids unnecessary water losses that deplete water storage supply, reduce water to

the Bay-Delta and increase operations costs. The high cost for unplanned pipeline repairs that damage public and private property can be avoided by replacing the steel pipes before they become problematic.

The water treatment plant and 42-inch transmission water line are highly vulnerable to severe damage and critical loss of water supply due to dam failure due to earthquake shaking. The following District facilities would be at risk due to an earthquake:

- PID Water Treatment Plant
- 42-inch Water Supply Transmission Pipeline
- Water Distribution Storage Tanks
- Magalia Dam

Future Development

The District will build any new development to current California Building Code, which includes construction standards designed to mitigate hazards. In addition, the District has a potential project to mitigate the hazards of earthquake to the District and its customers:

- Replacement of B-Reservoir with steel tanks

Floods: Localized Stormwater

Likelihood of Future Occurrence–Likely

Vulnerability–Medium

Hazard Profile and Problem Description

Localized flooding and other issues caused by severe weather events, primarily heavy rains and severe storms, are an annual occurrence in the District. Normally storm floodwaters are kept within defined limits by a variety of storm drainage and flood control measures. Occasionally, extended heavy rains result in floodwaters that overwhelm the drainage system. Primary concerns include impacts to infrastructure that provides a means of ingress and egress throughout the community.

Location and Extent

The Town of Paradise and areas of the District are subject to localized flooding. The extent of localized flooding is usually measured in volume, velocity, and depths of flooding. Expected flood depths in the District vary by location. Flood durations in the District tend to be short to medium term, or until either the storm drainage system can catch up or flood waters move downstream. Localized flooding in the District tends to have a shorter speed of onset, especially when antecedent rainfall has soaked the ground and reduced its capacity to absorb additional moisture.

Past Occurrences

The District Planning Team noted that localized flooding has not affected District facilities in the past. It can cause issues with District personnel traveling to and from work, as well as to and from District facilities.

Vulnerability and Impacts to Localized Flood

Localized flooding occurs throughout the District primarily during the winter and spring months during periods of heavy rains. Localized flooding can cause road closures, pavement deterioration, washouts, landslides/mudslides, debris areas, and downed trees. The amount and type of damage or flooding that occurs varies from year to year and storm to storm, depending on the quantity of runoff. Heavy rains may produce ponding around storm drains and in low lying areas, but these events are short in duration and do not typically cause property damage.

The drainage patterns of the Paradise area and the District reflect the uniqueness of its location on a gently sloping ridge surface. The Paradise area is dominated by a somewhat continuous overland runoff flow which is organized into local rills or depressions as the runoff is collected. The Paradise area is divided into fairly distinct drainage basins.

The drainage systems often coincide with groundwater seeps and springs which serve to increase the moisture availability beyond the intermittent flows directly related to storm runoff. Consequently, the drainage depressions and their downslope channels are often thickly vegetated.

As these areas are developed, the undergrowth and grass cover are often removed and channels are randomly excavated to suit the individual owner's or developer's interest. Often when this takes place, either through lack of knowledge, lack of funds or indifference, the resulting channel is inadequate in capacity and poses a real possibility of promoting damage. While the soils and subsoils of the Paradise area do not markedly aggravate the runoff situation, they also do not prove to be highly permeable. This often results in localized flooding which can be exacerbated by such land use activities as grading operations, vegetation clearance, inattention to storm runoff from construction sites during the peak winter rainfall period, large-scale paving and the lack of a collection system for storm waters. Storm runoff arrives at the principal drainage channels through overland flow for most of the Paradise area. Very few collector systems have been constructed and the primary form of collection has been through roadside ditches.

Impacts to the District from localized flood include possible damage to facilities and infrastructure. Localized flooding can also affect transportation routes that District personnel must take to get to District facilities.

Assets at Risk

The PID treatment plant and the 42-inch above ground pipeline are vulnerable to flooding from the overtopping of the spillway for Magalia Dam. The spillway currently flows toward the treatment plant below the dam.

Future Development

Future development is unlikely to be affected by localized flooding. The District has noted potential projects to mitigate localized flood for the District and its customers:

- Hazard assessment study
- Dam replacement

Severe Weather: Freeze and Winter Storm

Likelihood of Future Occurrence–Occasional

Vulnerability–Medium

Hazard Profile and Problem Description

According to the National Weather Service (NWS) and the Western Regional Climate Center (WRCC), extreme cold often accompanies a winter storm or is left in its wake. Winter snowstorms in the District can include freezing temperatures, snow, and ice. Prolonged exposure to cold can cause frostbite or hypothermia and can be life-threatening. Infants and the elderly are most susceptible. Pipes may freeze and burst in homes or buildings that are poorly insulated or without heat. Freezing temperatures can cause significant damage to the agricultural industry.

Location and Extent

Freeze and winter storms are regional issues, meaning the entire District is at risk to freeze and winter storms. While there is no scale (i.e. Richter, Enhanced Fujita) to measure the effects of freeze, temperature data from the County from the WRCC indicates that there are 21.8 days that fall below 32°F in western Butte County, with no days falling below 0°F. Freeze has a slow onset and can be generally be predicted in advance for the County. Freeze events can last for hours (in a cold overnight), or for days to weeks at a time. Snowfall is generally measured in snow fall and snow depths. It is rare for snow to fall, and even rarer that snow accumulates in the District. Snowfall has an onset that is similar to freeze in the District.

Past Occurrences

While the District Planning Team noted that while freeze and winter storms are annual events, there have been no events that have damages District facilities.

Vulnerability and Impacts to Severe Weather: Freeze and Winter Storms

The District experiences temperatures below 32 degrees and occasional snowfall during the winter months. The temperature moves to the teens in rather extreme situations. Occasionally, winter storms with freezing weather, snow and ice can affect the District. Winter storms can include snow and ice, and are occasionally accompanied by high winds, which can cause downed trees and power lines, power outages, broken pipes, accidents, and road closures. District facilities can be affected by loss of electricity.

Assets at Risk

The following District facilities would be at risk due to a severe weather:

- PID Water Treatment Plant
- PID Pumping Station

Future Development

The District builds all facilities to current California Building Code, and takes freeze and winter storm into account when siting facilities. Potential projects to mitigate freeze and winter storms for the District and its customers are:

- Hazard assessment study
- Upgrading backup generators throughout the District
- Running a redundant pipeline from the treatment plant to the junction box at the beginning of distribution system.

Severe Weather: Heavy Rain and Storms (Hail, Lightning)

Likelihood of Future Occurrence–Likely

Vulnerability–Medium

Hazard Profile and Problem Description

Storms in the District occur annually and are generally characterized by heavy rain often accompanied by strong winds and sometimes lightning and hail. Approximately 10 percent of the thunderstorms that occur each year in the United States are classified as severe. A thunderstorm is classified as severe when it contains one or more of the following phenomena: hail that is three-quarters of an inch or greater, winds in excess of 50 knots (57.5 mph), or a tornado. Heavy precipitation in the District falls mainly in the fall, winter, and spring months.

Location and Extent

Heavy rain events occur on a regional basis. Rains and storms can occur in any location of the District. All portions of the District are at risk to heavy rains. Most of the severe rains occur during the winter months. There is no scale by which heavy rains and severe storms are measured. Magnitude of storms is measured often in rainfall and damages. The speed of onset of heavy rains can be short, but accurate weather prediction mechanisms often let the public know of upcoming events. Duration of severe storms in California, Butte County, and the District is often short, ranging from minutes to hours. In some cases, rains can continue for days at a time. Information on precipitation extremes can be found in Section 4.2.4 of the Base Plan.

Past Occurrences

While the District Planning Team noted that while heavy rain and storms are annual events, there have been no events that have damages District facilities.

Vulnerability and Impacts to Heavy Rain and Storms

According to historical hazard data, severe weather is an annual occurrence in the District. Damage and disaster declarations related to severe weather have occurred and will continue to occur in the future. Heavy rain and severe storms are the most frequent type of severe weather occurrences in the District. Wind and lightning often accompany these storms and have caused damage in the past. Hail is rare.

Actual damage associated with the primary effects of severe weather have been limited. It is the secondary hazards caused by weather, such as flooding, that have had the greatest impact on the District. Impacts to District assets, critical facilities (such as utilities), and the transportation system can occur. Life safety issues can occur but are less of a concern during heavy rains and storms. The risk and vulnerability associated with these secondary hazards are discussed in the localized flood section of this Annex.

Assets at Risk

The water treatment plan and the above ground 42-inch transmission waterline are at critical risk due to this hazard.

Future Development

The District builds all facilities to current California Building Code, and takes heavy rain and storms into account when siting facilities. Potential projects to mitigate heavy rain and storms for the District and its customers are:

- Hazard assessment study
- Upgrading backup generators throughout the District
- Running a redundant pipeline from the treatment plant to the junction box at the beginning of distribution system.

Wildfire

Likelihood of Future Occurrence—Likely

Vulnerability—Extremely High

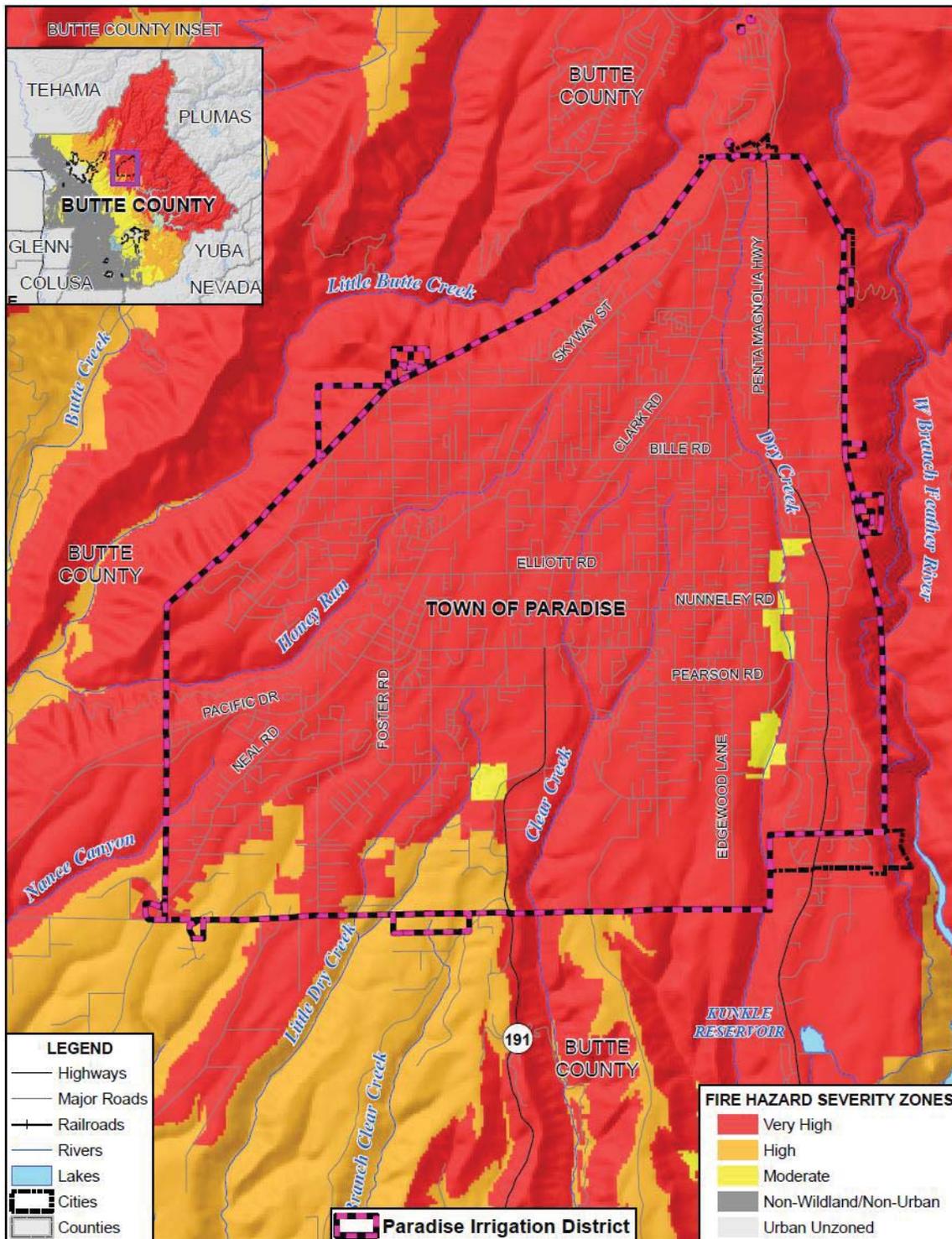
Hazard Profile and Problem Description

Wildland fire is an ongoing concern for the PID. Generally, the fire season extends from early spring through late fall of each year during the hotter, dryer months. Fire conditions arise from a combination of high temperatures, low moisture content in the air and fuel, accumulation of vegetation, and high winds. Throughout California, communities are increasingly concerned about wildfire safety as increased development in the foothills and mountain areas and subsequent fire suppression practices have affected the natural cycle of the ecosystem. While the fire season was considered to be predominantly May through October, it has now become a year around concern. Complicating wildfire issues is the threat of PG&E shutdowns during red flag days. This affects the District’s ability to treat water and pump water to the upper zones of the District.

Location and Extent

The whole of the District lies in a Moderate to Very High Fire Hazard Severity Zone. Wildfires tend to be measured in structure damages, injuries, and loss of life as well as on acres burned. Fires can have a quick speed of onset, especially during periods of drought. Fires can burn for a short period of time or may have durations lasting for a week or more. Fire Hazard Severity Zones in the District can be seen on Figure F-6.

Figure F-6 Paradise Irrigation District – Fire Hazard Severity Zones



0 1 2 Miles



Data Source: CAL FIRE (Adopted SRA 11/2007 - fhszs06_3_4, Draft 9/2007 - c4fhszl06_1), Butte County GIS, Cal-Atlas; Map Date: 8/27/2019.

Past Occurrences

2008 Ophir Fire- Lightning from storms, particularly during dry summer months is a potential natural ignition source for wildfire. An example of this would be the June 2008 fires. A large fire surrounded the Town of Paradise. No damages were done to the District facilities, but a fire of this nature underscores the risk of wildfire to the District (see discussion of Camp Fire below). The 2008 fires showed that further education in the community is needed to stop the use of yard sprinklers during evacuations. The water is not beneficial and takes water away from firefighting efforts.

2018 Camp Fire – During the Camp Fire, toxic chemicals (especially volatile organic compounds, VOCs, such as benzene) contaminated the Paradise Irrigation District (PID) distribution system. The distribution system is comprised of 172 miles (almost a million feet) of water mains and 10,480 service laterals. A significant number of the 10,480 individual service laterals and/or meters melted and the system partially drained. Following the Camp Fire, the distribution system was re-pressurized, leaks were repaired, and initial water quality testing began. It was discovered in the 2017 Tubbs Fire in Santa Rosa, that VOC contamination may be an issue in areas impacted by wildfire, especially coupled with depressurization of the water distribution system. The initial water quality testing discovered VOC contamination in multiple samples. Immediately, a “do not drink” advisory was initiated by PID. The full extent of the contamination is not yet known, but the system needs to be confirmed to be clear of contaminants and determined safe for use in distributing drinking water. A Water System Recovery Plan has been developed to accomplish this task.

Vulnerability and Impacts to Wildfire

Risk and vulnerability to the Butte County Planning Area and the District from wildfire is of significant concern, with some areas of the planning area being at greater risk than others. High fuel loads in the planning area, along with geographical and topographical features, create the potential for both natural and human-caused fires that can result in loss of life and property. These factors, combined with natural weather conditions common to the area, including periods of drought, high temperatures, low relative humidity, and periodic winds, can result in frequent and sometimes catastrophic fires. During the May to November fire season, the dry vegetation and hot and sometimes windy weather, combined with continued growth in the WUI areas, results in an increase in the number of ignitions. Any fire, once ignited, has the potential to quickly become a large, out-of-control fire. As development continues throughout the Planning Area, especially in these interface areas, the risk and vulnerability to wildfires will likely increase.

PID is not immune to numerous types of grass, brush, and wildland fires and any one of them may accelerate into a large WUI wildfire. As evidenced by the Camp Fire, such a situation could lead to evacuation of large portions of the population and the potential for significant loss of property, structures and rangeland. The natural fuels available in or near the District vary greatly in the rate and intensity of burning. Fires in heavy brush and stands of trees burn with great intensity but more slowly than in dry grass and leaves. Dense fuels will propagate fire better than sparse fuels.

Compounding the problem is the lack of ingress and egress roads in Paradise and around the District. Due to the sheer volume of people that can be affected at one time by a wildland fire, a number of potential traffic flow problems exist. These are complicated by the existence of only one north route out of town;

only four south routes out of town, two of which could easily be affected by a single fire; and only three through east-west streets. The plan concludes that any fire in the Magalia area would have a major impact on the roads in Paradise because access is via a two-lane road.

Wildfires in or near the PID service area in the Town of Paradise provide a significant impact to the District's ability to deliver water. The 2008 fires showed that further education in the community is needed to stop the use of yard sprinklers during evacuations. The water is not beneficial and takes water away from firefighting efforts.

The PID service area is located directly adjacent to the communities of Paradise and Magalia in the WUI.

Wildfires can cause short-term and long-term disruption to the County, the Town of Paradise and the PID, as evidenced by the Camp Fire in Paradise and the resultant loss of housing stock and population in Paradise. Fires can have devastating effects on watersheds through loss of vegetation and soil erosion, which may impact the County by changing runoff patterns, increasing sedimentation, reducing natural and reservoir water storage capacity, and degrading water quality. Fires may result in casualties and can destroy buildings and infrastructure.

Although the physical damages and casualties arising from wildland-urban interface fires may be severe, it is important to recognize that they also cause significant economic impacts by resulting in a loss of function of buildings, infrastructure, and tax base. In some cases, the economic impact of this loss of services may be comparable to the economic impact of physical damages or, in some cases, even greater. Economic impacts of loss of transportation and utility services may include traffic delays/detours from road and bridge closures and loss of electric power, potable water, and wastewater services. Fires can also cause major damage to power plants and power lines needed to distribute electricity to operate facilities.

Assets at Risk

The following District facilities would be at risk due to wildfire:

- PID Water Treatment Plant
- PID Pumping Station
- Magalia Dam
- Paradise Dam
- Distribution Water Storage Tank

Future Development

Wildfire risk will be taken into account when siting new District facilities. The District has sought to undertake projects that will reduce the risk of wildfire to the District and its customers. These projects include:

- Hazard assessment study
- Upgrading backup generators throughout the District
- Running a redundant pipeline from the treatment plant to the junction box at the beginning of distribution system.
- Upgrading B-Reservoir with steel tanks

- Upgrading all service-lines in the District to support fire sprinklers and plumbed with a backflow device.
- Upgrading the treatment plant and distribution system to allow maximum flow throughout the District.

F.6 Capability Assessment

Capabilities are the programs and policies currently in place to reduce hazard impacts or that could be used to implement hazard mitigation activities. This capabilities assessment is divided into five sections: regulatory mitigation capabilities, administrative and technical mitigation capabilities, fiscal mitigation capabilities, mitigation education, outreach, and partnerships, and other mitigation efforts.

F.6.1. Regulatory Mitigation Capabilities

Table F-5 lists regulatory mitigation capabilities, including planning and land management tools, typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in the District.

Table F-5 Paradise Irrigation District – Regulatory Mitigation Capabilities

Plans	Y/N Year	Does the plan/program address hazards? Does the plan identify projects to include in the mitigation strategy? Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	N/A	
Capital Improvements Plan	Y 2017	
Economic Development Plan	N/A	
Local Emergency Operations Plan	Y 2018	
Continuity of Operations Plan	N/A	
Transportation Plan	N/A	
Stormwater Management Plan/Program	N/A	
Engineering Studies for Streams	N/A	
Community Wildfire Protection Plan	N/A	
Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	N/A	
Building Code, Permitting, and Inspections	Y/N	Are codes adequately enforced?
Building Code	N/A	
Building Code Effectiveness Grading Schedule (BCEGS) Score	N/A	
Fire department ISO rating:	N/A	
Site plan review requirements	N/A	

Land Use Planning and Ordinances	
Zoning ordinance	N/A
Subdivision ordinance	N/A
Floodplain ordinance	N/A
Natural hazard specific ordinance (stormwater, steep slope, wildfire)	N/A
Flood insurance rate maps	N/A
Elevation Certificates	N/A
Acquisition of land for open space and public recreation uses	N/A
Erosion or sediment control program	N/A
Other	
How can these capabilities be expanded and improved to reduce risk?	
The District will continue to seek to expand capabilities to mitigate hazards, especially in light of the 2018 Camp Fire.	

Source: PID

Paradise Irrigation District Urban Water Management Plan (2015)

The purpose of the Paradise Irrigation District’s (PID) Urban Water Management Plan (UWMP) is to inform the public and state agencies of the PID water supply availability, exposure to droughts, conservation efforts, and plans for future supply. In this plan PID shows the current supply calculations, what impacts a customer can expect during drought periods and the impacts to water supply into the future.

Urban Water Management Plans are prepared by California's urban water suppliers to support their long-term resource planning and ensure adequate water supplies are available to meet existing and future water demands. PID has been completing Urban Water Management Plans since 1986, required every five years.

State law requires water agencies to reduce the amount of water each person uses per day (Per Capita Daily Consumption, which is measured in gallons per capita per day) by 20 percent by the year 2020. PID completed calculations, which are provided in the UWMP establishing our base per capita per day (pcpd) that our 20% will be measured from. PID has made significant reductions in water uses in the last few years through pipeline replacement, leak detection, water conservation measures and public response to the statewide drought. It will be important for PID and its customers to remain diligent in their efforts to conserve and continue to use water wisely.

Water Shortage Contingency Plan (2012)

As the water purveyor, the District must provide the minimum health and safety water needs of the community at all times. The water shortage response is designed to provide a minimum of 50% of normal supply during a severe or extended water shortage. The rationing program triggering levels shown below were established to ensure this goal is met. Although an actual shortage may occur at any time during the year, the District will use the Yield Analysis Model during the critical months of January through March to determine potential restrictions.

In Stage I shortages, customers may adjust either interior or outdoor water use (or both), in order to meet the voluntary water reduction goal.

Under Stage II and Stage III mandatory rationing programs, the District has determined that a reduction of 20% (Stage II) and 30% (Stage III) will be required. That amount of water is sufficient for essential interior water with no habit or plumbing fixture changes.

Under Stage IV mandatory rationing, which is likely to be declared only as the result of a prolonged water shortage or as a result of a disaster, the health and safety allotment is reduced to 50% of average use. This allotment still provides enough water for essential interior water use plus a minimal amount of outside use.

Catastrophic Supply Interruption Plan

Interruptions in the District's water supply could be caused by events such as drought, fire, earthquake, flood, reservoir contamination and major power outages.

Determine What Constitutes a Proclamation of a Water Shortage

Interruptions in the District's water supply could be caused by events such as drought, fire, earthquake, flood, reservoir contamination and major power outages.

A proclamation of water shortage can be declared by following the steps outlined in this Water Shortage Contingency Plan. An immediate proclamation will be made by the District Manager and reviewed by the Board of Directors in an emergency meeting as soon as it can be coordinated. The various stages of this plan are dependent on the severity and nature of the catastrophe and its effect on the total water supply of the District. The following is an example of events and remedies that might likely affect the District's water supply and therefore require implementation of water rationing.

- Fire- In the event of a major fire, the District's water treatment and distribution storage tanks will be operated at maximum capacity.
- Earthquake- In the event of a major earthquake where significant portions of the distribution system or treatment facilities are damaged District crews or contractors will work on isolating and re-routing water supplies. In the event that the District's raw water reservoirs are damaged beyond use, the District would activate the intertie agreement with Del Oro Water Company. An intertie with the DOWC has a maximum capacity of 1,000 gallons per minute (GPM) or 4.4 AF/day.
- Flood- Due to the terrain of the District, the possibility of flooding is quite remote.
- Reservoir Contamination- If contamination of the District's raw water supply occurs, the District would implement rationing, activate the intertie agreement and begin pumping from the "D" Tank well site.
- Major Power Outages- The District is able to operate, at full capacity, the raw water pump station and water treatment plant during power outages using a 500 KVA, diesel generator. External plumbing provisions have also been provided at the District's booster pump station to allow for portable pump hook-up.

F.6.2. Administrative/Technical Mitigation Capabilities

Table F-6 identifies the District staff/roles responsible for activities related to mitigation and loss prevention in the District.

Table F-6 Paradise Irrigation District – Administrative and Technical Mitigation Capabilities

Administration		Describe capability Is coordination effective?
	Y/N	
Planning Commission	N/A	
Mitigation Planning Committee	N/A	
Maintenance programs to reduce risk (e.g., tree trimming, clearing drainage systems)	N/A	
Mutual aid agreements	N/A	
Other		
Staff		Is staffing adequate to enforce regulations? Is staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
	Y/N FT/PT	
Chief Building Official	N/A	
Floodplain Administrator	N/A	
Emergency Manager	N/A	
Community Planner	N/A	
Civil Engineer	N/A	
GIS Coordinator	N/A	
Other		
Technical		
Warning systems/services (Reverse 911, outdoor warning signals)	N/A	
Hazard data and information	N/A	
Grant writing	N/A	
Hazus analysis	N/A	
Other		
How can these capabilities be expanded and improved to reduce risk?		
Many of these areas the District does not have existing capabilities. The District works with the County and the Town of Paradise on mitigation projects, and will continue to seek to expand that activity.		

Source: PID

F.6.3. Fiscal Mitigation Capabilities

Table F-7 identifies financial tools or resources that the District could potentially use to help fund mitigation activities.

Table F-7 Paradise Irrigation District – Fiscal Mitigation Capabilities

Funding Resource	Access/ Eligibility (Y/N)	Has the funding resource been used in past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital improvements project funding	N	
Authority to levy taxes for specific purposes	Y	
Fees for water, sewer, gas, or electric services	N	
Impact fees for new development	Y	
Storm water utility fee	N	
Incur debt through general obligation bonds and/or special tax bonds	N	
Incur debt through private activities	Y	
Community Development Block Grant	Y	
Other federal funding programs	N	
State funding programs		
Other		
How can these capabilities be expanded and improved to reduce risk?		
The District will continue to pursue outside funding for mitigation related work, especially in light of the 2018 Camp Fire.		

Source: PID

F.6.4. Mitigation Education, Outreach, and Partnerships

Table F-8 identifies education and outreach programs and methods already in place that could be/or are used to implement mitigation activities and communicate hazard-related information. More information can be found below the table.

Table F-8 Paradise Irrigation District – Mitigation Education, Outreach, and Partnerships

Program/Organization	Yes/No	Describe program/organization and how relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.	N	
Ongoing public education or information program (e.g., responsible water use, fire safety, household preparedness, environmental education)	Y	
Natural disaster or safety related school programs	N	
StormReady certification	N	
Firewise Communities certification	N	

Program/Organization	Yes/No	Describe program/organization and how relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Public-private partnership initiatives addressing disaster-related issues	N	
Other		
How can these capabilities be expanded and improved to reduce risk?		
The District will continue to pursue for mitigation related outreach and partnerships with the County and Town of Paradise, especially in light of the 2018 Camp Fire.		

Source: PID

Continuous work on fuels reduction in the PID watershed is ongoing with assistance by Butte Fire Safe Council. In 2012, the Butte County Fire Safe Council and Paradise Irrigation District successfully partnered on three grant applications which were awarded to improve watershed and forest health in Magalia on Paradise Irrigation District Lands (PID).

The three grant projects will reduce wildfire threat by thinning small overstocked trees and brush. These projects link to four existing shaded fuel break/forest health projects. Partners have included US Forest Service Plumas National Forest, Bureau of Land Management and Cal-Fire.

The neighboring water provider, Del Oro Water Company has a limited supply of water available and none available at this time for transfer. The District does have an agreement in place with them that would provide a small amount of water available to the District in an emergency from their Paradise Pines District. The Paradise Pines District is solely served by groundwater that is limited.

F.6.5. Other Mitigation Efforts

Water Education is provided for annually to fourth grade students in Paradise. The Creekside 6 Elementary School partners with the District to provide an annual watershed education event at the Paradise Lake.

F.7 Mitigation Strategy

F.7.1. Mitigation Goals and Objectives

PID adopts the hazard mitigation goals and objectives developed by the HMPC and described in Chapter 5 Mitigation Strategy.

F.7.2. Mitigation Actions

The planning team for the District identified and prioritized the following mitigation actions based on the risk assessment. Background information and information on how each action will be implemented and administered, such as ideas for implementation, responsible office, potential funding, estimated cost, and timeline are also included. The following hazards were considered a priority for purposes of mitigation action planning:

- Dam Failure
- Drought and Water Shortage
- Earthquake and Liquefaction
- Floods: Localized Stormwater
- Severe Weather: Freeze and Winter Storm
- Severe Weather: Heavy Rain and Storms (Hail, Lightning, Wind)
- Wildfire

It should be noted that many of the projects submitted by each jurisdiction in Table 5-4 in the Base Plan benefit all jurisdictions whether or not they are the lead agency. Further, many of these mitigation efforts are collaborative efforts among multiple local, state, and federal agencies. In addition, the countywide public outreach action, as well as many of the emergency services actions, apply to all hazards regardless of hazard priority. Collectively, this multi-jurisdictional mitigation strategy includes only those actions and projects which reflect the actual priorities and capacity of each jurisdiction to implement over the next 5-years covered by this plan.

Mitigation Actions

Action 1. Hydraulic Modeling Pipe Replacement Program

Hazards Addressed: Drought & Water Supply; Earthquake; Wildfire

Goals Addressed: 1, 2, 3, 4, 5, 7, 9

Issue/Background: 60 miles of aging steel pipe are leaking water and are vulnerable to earthquake damage due to corrosion issues. The District’s primary effort at demand management is pipeline replacement. In 2003 the District began replacing 8.4 miles of pipelines with a grant from the California Department of Water resources, and also 2.3 miles with in-house resources. The District’s goal is to replace 2 miles per year with in-house resources; however, this will take 30 years to complete the program. The recent pipe replacement fell short of the District’s goal due to a reduction of in-house resources that include the following: 1. freezing three full-time positions, 2. a dispute with the union over temporary worker status, and 3. the workforce has been diverted to remodel the Administration building and construct major portions of the Corporation Yard replacement project.

To optimally plan transmission and distributions system improvements; such as maintaining flows and pressures during disaster events; a hydraulic model of the system is needed. The hydraulic model allows planners and designers to simulate multiple scenarios of water demands and pipeline configurations inexpensively. Additionally; the model can be used to estimate prepare emergency operations plans for use during disasters. The mitigation goal is to provide PID a tool to model the hydraulic performance of their transmission and distribution systems during normal and extreme events (such as a large wildland fire).

Water Treatment Plant upgrade: To effectively fight both structure and wildland fires; the system flows must meet minimum flow; pressure; and duration requirements. During fire flow events; the flow restrictions in portions of the distribution system contribute to low pressures; increasing the likelihood of system contamination. Keeping pressures up throughout the entire system better protects public health.

Water Treatment Plant upgrades in accordance with the hydrology study will mitigate future losses protecting lives, property and public health.

Other Alternatives: None

Existing Planning Mechanism(s) through which Action Will Be Implemented: Public Agency Capital Improvement program long-term planning and annual budgeting.

Responsible Office: Paradise Irrigation District

Priority (H, M, L): High

Cost Estimate: \$60,000,000: 60 miles @ \$1,000,000 per mile of PVC pipe, with diameter varying from 8-inch to 12-inch (includes engineering).

Benefits (Losses Avoided): Avoidance of unnecessary water losses that deplete water storage supply, increase operations costs and provides additional water to the Bay-Delta. The higher cost for unplanned pipeline repairs that damage public and private property can be avoided by replacing the steel pipes before they become problematic. Avoid loss of revenue due to the loss of unsold treated water.

To optimally plan transmission and distributions system improvements; such as maintaining flows and pressures during disaster events; a hydraulic model of the system is needed. The hydraulic model allows planners and designers to simulate multiple scenarios of water demands and pipeline configurations inexpensively. Additionally; the model can be used to estimate prepare emergency operations plans for use during disasters. The mitigation goal is to provide PID a tool to model the hydraulic performance of their transmission and distribution systems during normal and extreme events (such as a large wildland fire).

Water Treatment Plant upgrade: To effectively fight both structure or wildland fires; the system flows must meet minimum flow; pressure; and duration requirements. During fire flow events; the flow restrictions in portions of the distribution system contribute to low pressures; increasing the likelihood of system contamination. Keeping pressures up throughout the entire system better protects public health. Water Treatment Plant upgrades in accordance with the hydrology study will mitigate future losses protecting lives, property and public health.

Wildfire threat within the Town ranges from moderate to very high. The Paradise Irrigation District lists Wildfires on the LHMP Hazard Identification and Vulnerability Assessment. This project aligns with the Butte County LHMP Goals and Objectives #1 by minimizing the risk and vulnerability of the community to hazards and reduce damages and protect lives, property, and public health. Also Goal 2 to provide protection to critical facilities, infrastructure, and services from hazard impacts.

Potential Funding: Pay-as-you-go utilizing funding from water rates. State Revolving Fund Loans or EPA grants.

Timeline: To be determined based on the availability of outside funding. Currently an initial replacement goal is 2 miles of pipeline per year. An increased replacement rate schedule will be implemented should outside funding sources become available.

Action 2. Drought Water Supply

Hazards Addressed: Drought and Water Supply

Goals Addressed: 1, 2, 3, 4, 5, 7, 9

Issue/Background: The District has experienced periods of drought historically as described in the 2010 Urban Water Management Plan (UWMP). The analysis in the UWMP determined that on average the District can expect ongoing drought conditions to occur and would require cutbacks in one year in ten on average. The District has been in negotiations for many years with PG&E and the Del Oro Water Company for a drought supply project that would mitigate the District’s water supply from drought.

Other Alternatives: Implement additional conservation measures not deemed to be cost effective. Adding additional groundwater sources to meet future supply needs is not feasible due to an inadequate supply in the area.

Existing Planning Mechanism(s) through which Action Will Be Implemented: Drought has been addressed in the District’s updated Strategic Business Plan, Capital Improvement Plan, Budget, and the Urban Water Management Plan.

Responsible Office: Paradise Irrigation District

Priority (H, M, L): High

Cost Estimate: \$5,000,000

Benefits (Losses Avoided): Up to \$832,500 annual revenue will be lost in a drought situation due to a reduction in water sales to normally used by the District customers, including their current water conservation efforts. This does not include the long-term impact from the customers demand reduction after loss of outside landscaping.

Potential Funding: Apply for State Revolving Fund Loans; EPA Grants; Water Rates; and borrow funds for the remainder of the appropriations needed.

Timeline: No schedule determined yet, pending completion of negotiations with PG&E and the Del Oro Water District, and the extension of water right permits.

Action 3. Magalia Dam Replacement

Hazards Addressed: Drought & Water Supply; Earthquake; Dam Failure; Flooding, Localized Flooding, Heavy Rain and Storms

Goals Addressed: 1, 2, 3, 4, 7, 9

Issue/Background: Paradise Irrigation District (PID) is responsible for the operation of the Magalia Dam. Geotechnical deficiencies in Magalia Dam are limiting the operational storage volumes within the reservoir. Portions of the dam embankment were constructed hydraulically in 1917 and, due to the dam being over

100 years old (typical dam lifespan is 50 years), do not meet current dam safety standards. Studies performed in 1972, 1992, 1994, and 2002 found that those hydraulic fill materials within the dam embankment could liquefy during a seismic event. To mitigate risk of failure and subsequent flood during an earthquake, the water surface of the reservoir, originally designed to be at elevation 2225.8 starting in 1996, was limited to elevation 2,200 and that elevation was further lowered to 2,199 feet in 2002, which is 26.8 feet below the original design water surface elevation and spillway and 41 feet below the dam crest. This restriction has reduced the maximum storage capacity from 2,800 acre-feet to 796 acre-feet.

It is not unusual to find that foundation and/or embankment soils for dams have susceptibility to liquefaction. Lopez, Anderson, Almaden, Calero and other dams were assessed as having a potential for failure due to liquefaction and improved to reduce those risks. Typically, mitigations for liquefaction of dam embankment soils consist of ground modifications to increase the density (consistency) of embankment soils, reduce the pore water pressures of those soils, and/or decrease deformation that might occur to embankment soils during a seismic event. Those mitigations can include mass grading (retrofit or buttress), compaction grouting, deep soil mixing, driven piles, stone columns, or combinations thereof.

Additionally, the pipe supports for the outlet pipe which connects Magalia Reservoir to the PID WTP through a tunnel in the Magalia Dam have been suspected by DSOD inspectors as being deficient. These supports have to be improved and seismically stable in order to prevent failure in an earthquake, which could cause significant flooding on its own, and also could undermine the dam from within, causing more catastrophic dam failure and significantly more flooding.

Wildfire threat within the Town ranges from moderate to very high. The Paradise Irrigation District lists Wildfires on the LHMP Hazard Identification and Vulnerability Assessment. This project aligns with the Butte County LHMP Goals and Objectives #1 by minimizing the risk and vulnerability of the community to hazards and reduce damages and protect lives, property, and public health. Also Goal 2 to provide protection to critical facilities, infrastructure, and services from hazard impacts.

Other Alternatives: Develop regional intertie alternatives; however, this does not mitigate the extensive damage to public and private property and loss of life that may be realized by a dam failure.

Existing Planning Mechanism(s) through which Action Will Be Implemented: Public Agency Capital Improvement program long-term planning and annual budgeting.

Responsible Office: Paradise Irrigation District;

Priority (H, M, L): High

Cost Estimate: \$30,000,000

Benefits (Losses Avoided): Avoid potential loss of life (greater than 1,000 people) within 12 miles of the dam failure. Avoid major damage the District's water treatment plant and 42-inch water transmission pipeline for the Town of Paradise. Avoid loss of the sole access to the Pines community (10,000 people) by widening the existing 2-lane road to 4-lanes to improve emergency access.

Potential Funding: Federal Transportation funding; Apply for State Revolving Fund Loans; EPA Grants; Water Rates; and borrow funds for the remainder of the appropriations needed.

Timeline: To be determined based on the availability of funding.

Action 4. *Install Bladder Dam in the Paradise Lake Spillway*

Hazards Addressed: Drought and Water Supply

Goals Addressed: 1, 2, 3, 4, 7, 9

Issue/Background: To increase supply to help mitigate drought the District investigated this mitigation action and determined it was feasible to install a 3-foot high bladder dam within the spillway channel at Paradise Lake. The bladder dam would provide approximately 750 acre-feet of additional storage. The feasibility was discussed with the DSD; per the DSD the chimney drain inside the dam would be raised an equivalent amount.

Other Alternatives: Intertie projects with PG&E, and the Del Oro Water District. The cost for an intertie alternative is estimated at 5 times the cost for this mitigation action.

Existing Planning Mechanism(s) through which Action Will Be Implemented: Environmental work necessary for this project would be partially duplicated with the District's efforts to extend the existing water rights permits. The Board of Directors deferred this project pending the completion of the permit extensions.

Responsible Office: Paradise Irrigation District

Priority (H, M, L): High

Cost Estimate: \$1,500,000

Benefits (Losses Avoided): Up to \$832,500 annual revenue will be lost in a drought situation due to a reduction in water sales normally used by the District customers, including their current water conservation efforts. This does not include the long-term impact from the customer demand reduction after loss of outside landscaping.

Potential Funding: State Revolving Fund Loans; EPA Grants; Water Rates

Timeline: Schedule to be determined pending the completion of the water rights permit extensions.

Action 5. *Service Line Replacement*

Hazards Addressed: Wildfire; Earthquake, Winter Storm

Goals Addressed: 1, 2, 3, 4, 5, 7,9

Issue/Background: Paradise Irrigation District (PID) is responsible for providing potable and fire service water to their customers. Potable use is a fraction of the water demand compared to fire flows. To effectively fight both structure and wildland fires, the system flows must meet minimum flow, pressure, and duration requirements. Flow and pressure are a function of pipe sizes and connectivity (a looped system typically is more reliable and has less pressure losses). During fire flow events, the flow restrictions in portions of the distribution system contribute to low pressures, increasing the likelihood of system contamination. Keeping pressures up throughout the entire system better protects public health.

The area is highly susceptible to wildland fires (as demonstrated in Camp Fire, November 2018) that can cause substantial loss to life and property. Additionally, the rural nature of the area increases the response time of firefighting equipment, thereby increasing the magnitude of a fire when adequate resources arrive – thereby needing greater quantities of water.

In the aftermath of the Camp Fire; many customers will begin the process of rebuilding and will be installing fire sprinkler systems; now required by the 2016 California Residential Building Code for all construction within the Wildland-Urban Interface. Paradise Irrigation District must be able to provide the appropriate amount of flow and pressure at the service connection to support this change in code allowing residents to rebuild and increasing the tax base.

Adequate water flow and pressure reduces the likelihood of loss of life, minimizes property damage, and protects public health.

Other Alternatives: The alternative would be to add a supplementary second line adjacent to the original line, in order to increase overall flow to the structure. This would result in needing to add an additional service lateral connection to the main, as well as connecting it to the connection at the meter. It would also result in a wider trench and additional displacement of soil. This would be inefficient and unnecessarily complicated.

Existing Planning Mechanism(s) through which Action Will Be Implemented: The Butte County Transportation Division must determine the optimal way to improve the Skyway road crossing the dam before the design of the dam can proceed.

Responsible Office: Paradise Irrigation District; Butte County Transportation Division

Priority (H, M, L): High

Cost Estimate: \$65,000,000

Benefits (Losses Avoided): Avoid potential loss of life (greater than 1,000 people) within the town of Paradise. Avoid major damage the District's water distribution system.

Potential Funding: Pay-as-you-go utilizing funding from water rates. State Revolving Fund Loans or EPA grants.

Timeline: To be determined based on the availability of funding.

Action 6. B-Reservoir Replacement

Hazards Addressed: Wildfire; Earthquake

Goals Addressed: 1, 2, 3, 4, 5, 7, 9

Issue/Background: The Paradise Irrigation District provides potable water to the Town of Paradise with 10,507 connections, serving a population of 26,800. The distribution system includes 7 distribution zones (Zones A through G), one water treatment plant, and five storage reservoirs ranging in size from just under 1 million gallons to 2 million gallons capacity. All of the reservoirs are steel tank reservoirs, with the exception of Reservoir B, which is an earth embankment lined reservoir with a flexible membrane cover. Reservoir B was designed to store 3 million gallons (MG) of potable water, however, storage capacity is limited to 2 MG due to hydraulic considerations. Treated, potable water is transferred from the PID water treatment plant (WTP) via a 12,500 42-inch gravity water transmission main to Zone B and Reservoir B.

Reservoir A is supplied potable water from Zone B via pump stations.

Reservoir B is a 3 MG earth embankment reservoir lined with reinforced polypropylene and with a floating high-density polyethylene (HDPE) cover. The reservoir was constructed in 1984 and the cover and line were replaced in 2005. Floating cover reservoirs are subject to many issues related to the integrity of the cover---tears, contamination, and failures of other systems that all pose a threat of drinking water contamination. The cover is also subject to vandalism by trespassers and wildlife; it gathers rainwater, and the sump pump installed to drain the rainwater constantly requires maintenance. Maintenance must also be scheduled regularly to remove debris; as debris accumulates, it attracts vectors (e.g. mosquitos) and leads to decay and detritus sitting on the cover of the drinking water reservoir. As the only reservoir that directly feeds Zone B (21% of customers) and Zone A (12% of customers), it is a critical point in the distribution system that does not have any redundancy, and the WTP pumping conditions make it reliant on Reservoir B to deliver water through the transmission main, impacting other zones and residents in the event of Reservoir B failing. See Reservoirs' Schematic under Tab 15, which shows Reservoir B feeds the entire District distribution system by gravity and Zone A through Pump Station A.

Total storage capacity for each zone must include sufficient fire storage. Paradise is in a wildland interface area and, in support of wildland firefighting, PID provides water storage for use in fighting wildfires should they enter the service area. fire storage volume is intended to be available in all zones, at all times (including during peak demand). Prior to the Camp Fire of 2018, the largest fire in recent history in Paradise was the Camp Fire of 2008. On July 8, 2008 the fire increased in sized by 17,000 acres in one day (source: CalFire, "2008 June Fire Siege," pg. 61 and noted on page 18 in the PID Reservoir B Replacement Conceptual Design Report, August 2017), destroying 50 homes only one month after the Humboldt Fire had destroyed 20 homes in Paradise and approximately 75 homes in the Chico area. Reservoir storage levels for reservoirs A, B, C, and D and plant flow data were analyzed for the week of the 2008 Camp Fire to determine system demand during the fire. The calculated hourly system demand and the resulting daily system demand during the week of the 2008 Camp Fire show the 24-hour firefighting period of July 8, 2008 at noon to July 9, 2008 showed a 4 MG increase in system demand.

This 4.0 MG increase is attributed to firefighting efforts within Paradise using fire hydrant flow data. In order to determine needed fire storage requirements, the following firefighting conditions and associated storage requirements were considered:

1. Actual Usage during the 2008 Camp Fire.
2. A "Model" wildfire which requires two hydrants be run at 1,000 gallons per minute (gpm) for 24 hours.
3. A single commercial structure fire which requires 3,000 gpm for 3 hours.
4. A single residential fire which requires 1,500 gpm of firefighting flow for 2 hours.

Based on the regulatory minimum water storage requirements and the fire storage calculation using the above parameters, the total current available storage and minimum water storage requirements by zone was tabulated. According to the Conceptual Design Report prepared by Water Works Engineering in 2017, there is a total storage deficiency in Zone B and a usable storage deficiency in both Zone A and Zone B. Further analysis using operating data and reservoir levels for the peak week of June 30 - July 2013 were examined. This data shows similar deficiencies during peak periods during a drought year, with only 0.66 MG of usable water in Reservoir B, falling 2.2 MG short of the target amount of 2.88 MG.

According to a news article published by Bay Area News Group December 2, 2018 (See Tab 15), since 1999 13 large wildfires have burned in the 153,000 acre footprint of the recent 2018 Camp Fire, including the Bloomer (1999), Bucks (1999), Doe Mill (1999), Concow (2000), Highway 70 (2001), Poe (2001), Skyway (2002 & 2006), Honey (2007), BTU Lightning Complex (2008), Camp Fire (2008), Humboldt (2008), Ninety Nine (2016), and Saddle (2016). Not all of these were declared national disasters, but they all exceeded 300 acres.

The proposed project is to construct an additional 2.5 MG above ground, steel tank reservoir to support fire flow storage requirements and storage needs during drought years. This project also supports water quality protection by eliminating the risks associated with the flexible membrane cover.

Other Alternatives: The construction of new water reservoir tanks is commonly constructed of either prestressed concrete or welded steel. This alternative would be to use prestressed concrete tank. Advantages include:

1. Prestressed concrete tanks do not require coatings, and therefore do not require the maintenance of re-coating.
2. Concrete tanks can be created to be narrower and taller than steel tanks, if needed, however, this site does not require narrower tanks and the tank height is limited by the WTP hydraulics.
3. The tank can be partially buried.

Negatives for this alternative include:

1. Prestressed concrete tanks take longer to construct than steel tanks.

2. Prestressed concrete tanks must be NSF-61 compliant concrete, since the concrete is in contact with drinking water. NSF-61 compliant concrete is not commonly available and the rural location would likely demand a premium price.

3. Prestressed concrete tanks require more significant subgrade earthwork preparation than steel tanks, and are more sensitive to differential settlement conditions. This adds time and expense to construction.

Existing Planning Mechanism(s) through which Action Will Be Implemented: The District has plans to implement this project.

Responsible Office: Paradise Irrigation District;

Priority (H, M, L): High

Cost Estimate: \$15,000,000

Benefits (Losses Avoided): Avoid potential loss of life (greater than 1,000 people) within the town of Paradise. Avoid major damage the District’s water distribution system.

Potential Funding: Pay-as-you-go utilizing funding from water rates. State Revolving Fund Loans or EPA grants.

Timeline: To be determined based on the availability of funding.

Action 7. A-Zone Pipeline and Generator

Hazards Addressed: Drought and Water Supply

Goals Addressed: 1, 2, 3, 4, 5 7, 9

Issue/Background: The Paradise Irrigation District (PID) provides drinking water to the community of Paradise located in Butte County, California. The PID has multiple potential risks from flooding, earthquakes, severe weather, fire, and power outages. As a result, the PID has evaluated its infrastructure for potential hazards and identified priority capital improvements necessary to mitigate such risks to the community’s water supply. The priority infrastructure identified for this project are: 1) Re-align the 42” Raw Water Supply Pipeline, 2) Alternate, emergency treated water transmission pipeline and A Zone Pump Station, and 3) the Water Treatment Plant Back-up Power Supply.

The Raw Water Supply Pipeline currently crosses the Little Butte Creek supported by three (3) concrete pillars. These concrete pillars are at least as old as the pipeline, which was put into service in 1955. Prior to the pipeline, a wooden flume was in its place and it is possible that these concrete supports were used to support this flume prior to 1955. This critical facility is at risk of damage by either earthquake or flood due to the condition of the un-reinforced concrete support piers, the age and the condition of the raw water pipe, and the fact it crosses a creek that is subject to rapid increases in water volumes makes this facility highly vulnerable to seismic and or flooding events. Furthermore, this pipeline crosses the creek downstream from the Magalia Dam, which has been evaluated and characterized by the California Division of Safety of Dams

(DSOD) as the “worst dam” in the state of California. The concern is damage may occur to either the unreinforced concrete supports and/or to the pipeline should another flood event and/or earthquake occur in the future. The current configuration and condition of the pipe and the concrete supports puts the raw water pipeline at risk for a total loss. If this pipeline were to be damaged, the entire Town of Paradise population would be without water until the pipeline could be repaired or an alternate temporary line be installed. Depending on the circumstances of the disaster, this effort may be hindered due to rushing water through the creek and the overtopping of the Magalia Dam as was experienced in 1997, further increasing the likelihood and duration of a water outage to the entire population. Had this pipeline failed in 1997, it is unclear what recourse the District would have had given the flood conditions.

A 16” transmission pipeline from the water treatment plant to the “A” zone section of the District’s service area is needed to provide an alternative supply of water to the District’s service area. Currently, only one transmission 42” pipeline from the water treatment plant provides all of the Town’s treated water via Zone “B”. In the event that this pipeline fails, there is no alternative pipeline to deliver the water resulting in a District-wide outage. Furthermore, water service to the District's "A" pressure zone is currently pumped from "B" zone by Pump Station Number 2. If this pump station, or its ancillary facilities, fail all customers will experience a water outage. This pipeline will also allow the District to distribute water more efficiently to the “A” zone portion of the District and improve fire flow to this area of the District. Located in the foothills, the Town of Paradise has a high fire risk (see CalFire map of the Town of Paradise). Additionally, the District’s only transmission line is predominantly located along a steep embankment and would be difficult to access in the event of a landslide. Damage to the pipeline itself from fire is not likely, but to the pumping facility, storage tank, or landslide following a fire are potential risks (see 42-inch Transmission Pipeline Location Map).

The Town of Paradise experiences frequent power outages resulting from storms, high winds, and forest trees, without outages averaging six per year and durations of up to 4 – 6 hours. The Water Treatment Plant is also at risk for flooding, due to its location near the Little Butte Creek and Magalia Reservoir. During periods of power outages, the District issues a community order to reduce water use and if the outage persists, a boil water notice would be required, and the District could run out of water if the plant were without power for 24 hours during the warmer months.

Other Alternatives: Construct a water treatment plant and pumping station from Oroville Lake to serve water to the entire Paradise Irrigation Customer base.

Existing Planning Mechanism(s) through which Action Will Be Implemented: Pay-as-you-go utilizing funding from water rates. State Revolving Fund Loans or EPA grants.

Responsible Office: Paradise Irrigation District

Priority (H, M, L): High

Cost Estimate: \$11,500,000

Benefits (Losses Avoided): In order to reduce and potentially eliminate the risk to the raw water line, the District will abandon the current pipeline crossing and install a new, 36” raw water pipe aligned along the roadway so it does not cross the creek, which will alleviate any potential damage to the pipeline itself and/or

from the concrete supports being damaged by a future flood or seismic activity. By eliminating the creek crossing at this lower point downstream of the Magalia Dam, the threat of damage due to flooding will be greatly reduced if not eliminated. See the attached photos of the existing and new alignments, and the site plan.

The installation of the alternate 16” transmission pipeline and pump station will allow the District to continue to distribute water throughout this District in the event that the transmission main pipeline or the pumping and/or tank suffers a failure. This is an essential activity, because if only the pump station fails, at a minimum 10% of the District (Zone A) will not receive water; and if the main pipeline is damaged, all of the District will suffer a water outage once the storage tanks drain. This pipeline is also important for fire flow, because if there is a power outage that affects pumping capabilities while there is a fire, pressure for fire flow will diminish.

The new, emergency generator will be at least a 1600 kW, diesel generator with an enclosure. This generator will provide 100% of the power needed to operate the water treatment plant and also be of sufficient capacity to provide emergency power into the future to allow for future expansion for the useful life of the generator (19 years). Given the age and the strain on the existing generator, there is potential for it to fail when needed most. Power outages occur, on average, six times per year; and often for extended periods of time (e.g. more than 4 hours). The current generator has also been “grandfathered” for use and only for emergency and maintenance purposes due to its inability to meet current air quality standards--- use is limited to 90 hours/year. The new generator will meet current environmental standards.

Potential Funding: State Revolving Fund Loans; EPA Grants; Water Rates

Timeline: To be determined based on the availability of funding.

Action 8. Water Shed Fuel Reduction

Hazards Addressed: Wildfire, Drought, Severe Weather, Extreme Heat, Severe Weather: Wind

Goals Addressed: 1, 2, 3, 4, 5, 7, 9

Issue/Background: Paradise Irrigation District has 389 acres within the project area, located around the Magalia Reservoir and Little Butte Creek. The property has multiple vegetation types including: Mixed Conifer, Fir/Cedar/Oak, Grey Pine/Live Oak, and Sertentine. The current stocking level for the property is approx. 385 trees per acre, with about 270 (~70%) being 10” DBH or less. About 108 trees per acre are

10” DBH or larger. There are approx. 8 snags per acre under 10” DBH and 5 snags per acre 10” DBH and larger, which is a slightly less average than the rest of the Magalia plan area. Therefore, throughout PIDs land it is estimated that there are currently 1,945 10” DBH and larger standing dead trees. There are also less diseased trees per acre on PIDs land than the project areas average, with close to 80 trees being diseased. The expected conifer mortality is about 1 tree 10” DBH or larger per two acres. This means that about 195 conifers 10” DBH and larger may die in per year. Paradise Irrigation District has 59 acres of Hazard Zone in the project, where vulnerable trees are within 150 feet of houses and infrastructure, posing a health and safety risk. This means roughly 295 10” DBH and larger dead trees are located in the hazard areas of their property. There are also approx. 12 diseased trees in the PID Hazard Zone. Expected conifer mortality of

trees 10" DBH and larger in this zone is about 31 trees per year. There is an average of 6.4 tons per acre of dead, downed woody debris located throughout PIDs land holdings.

Project Description: Fuel reduction treatments should remove trees and snags below 10" DBH until the canopy cover reaches 70%. Smaller diameter trees that are in a suppressed or intermediate crown position (the tree is being overtopped by taller, more mature trees and doesn't receive direct sunlight throughout the majority of its crown) should be targeted first. Leave trees should be pruned up to 12-16 feet or until 1/3 the live crown has been removed for smaller trees. With the stand aging it is vital to make sure there are trees available to regenerate the overstory once mature trees start dying.

Other Alternatives: Prescribed burns were also considered as an additional treatment method, particularly for Starthistle.

Existing Planning Mechanism(s) through which Action Will Be Implemented: Magalia Forest Management Plan and CEQA.

Responsible Office/Partners: Paradise Irrigation District and Butte County Fire Safe Council

Cost Estimate: \$5,000,000

Benefits (Losses Avoided): Over \$50 million estimated valuation of structures within a 2-mile radius of the project area and water quality issues for the customers of Paradise Irrigation District.

Potential Funding: Paradise Irrigation District in-kind labor, volunteer labor, and the use of CA Conservation Corps and/or Alliance for Work Force Development crews as local match.

Timeline: 36 months implementation period

Project Priority: High

Action 9. Backup Portable Generators

Hazards Addressed: Flooding and Localized Flooding, Earthquake, Wildfire, Dam Failure, Severe Weather, Power Outages

Goals Addressed: 1, 2, 3, 4, 5, 7, 9

Issue/Background: Backup generation is the main way in which the District maintains continued function of its critical facilities. Currently the District has only one portable generator that can be used in case of power outage. It is housed at the District office. In the instance of a widespread and prolonged power outage there is a risk that additional power generation would be needed at facilities that do not have backup generation or current backup generation fails. Additional generators would mitigate some of the risk of a prolonged outage.

Project Description: Purchase additional portable backup generators.

Other Alternatives: Install permanent backup generation at the District main office and other critical facilities without permanent backup power generation.

Existing Planning Mechanism(s) through which Action Will Be Implemented: Unknown

Responsible Office/Partners: Paradise Irrigation District

Cost Estimate: \$500,000

Benefits (Losses Avoided): The District would not experience a depressurization of distribution system, lose the ability to treat water for the Town of Paradise, and the loss of communication between the treatment plant and distribution system tanks

Potential Funding: General funds

Timeline: When funding is available.

Project Priority: High

Action 10. Earthquake Vulnerability Assessment on Water Distribution Infrastructure

Hazards Addressed: Earthquake and Liquefaction

Goals Addressed: 1, 2, 3, 4, 5, 7, 9

Issue/Background: California has high susceptibility to earthquake events. Evaluate Agency infrastructure located in fault line and seismically active areas

Project Description: Overlay fault line and seismic activity maps with our infrastructure maps to evaluate a predictability curve. Potentially a project that could be completed by a U.C. or Cal State Engineering program.

Other Alternatives: N/A

Existing Planning Mechanisms through which Action will be implemented:

Responsible Office: Paradise Irrigation District

Priority (H, M, L): Low

Cost Estimate: Approximately \$500,000 **Potential Funding:** Split between the agency and a FEMA Hazard Mitigation Grant

Benefits (avoided Losses): Understand vulnerable areas and ensure our system is capable of withstanding significant seismic/earthquake events

Schedule: When funding is available.



PARADISE IRRIGATION DISTRICT

6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

DATE: December 13, 2019

TO: Board of Directors

**FROM: Kevin Phillips, District Manager
Bill Taylor, Treatment Superintendent**

**RE: Field Evaluations of the Dams for Fire Damage and Safety,
Surveying of Dams for years 2019 and 2020 - Proposal Attached
12/18/2019 Board of Directors Meeting**

As part of being a dam owner we are required to have an engineer do an annual evaluation of the safety of the dams and report to the State Department of Safety of Dams (DSOD). Our consultant, Genterra Consultants, Inc., has provided the attached proposal to perform the required annual inspections, fire damage inspections, and surveying of the dams for the years 2019 and 2020.

Geneterra has been working with the District off and on for several years now. They are well respected by DSOD and have been very beneficial to have working for us on the latest dam projects (spillway evaluation and repair).

Due to Genterra's knowledge of our dams, their experience working with DSOD and our current workload, we are recommending to sole source their proposal for this period.

The recommended form of motion is:

"I move to approve and authorize the District Manager, with review of legal counsel, to execute an agreement with Genterra Consultants, Inc. to perform the services described in Task 1 for the years of 2019 and 2020 for a cost not to exceed \$ 29,960.00."

December 4, 2019

P2449-PID

Mr. Bill Taylor
Paradise Irrigation District
6332 Clark Road
Paradise, CA 95969

Subject: **Proposal for Professional Services
Fire Damage Field Evaluations, Dam Safety Field Evaluations, and As-
Requested Services
Calendar Years 2019 and 2020
Magalia Dam (No. 73-0) and Paradise Dam (No. 73-2)**

Dear Mr. Taylor:

GENTERRA Consultants, Inc. (GENTERRA) is pleased to submit this proposal to the Paradise Irrigation District (District) in response to your email request on May 8, 2019 to provide our professional services to the District for fire damage field evaluations, dam safety field evaluations, and other as-requested services at Magalia Dam (No. 73) and Paradise Dam (No. 73-2). As you know, we have been delaying our submittal until we discussed and worked out the extent and methods for the surveying at both dams for horizontal and vertical movement. We also performed initial field evaluations and responded to questions related to the damages caused by the November 2018 Camp Fire.

In addition to the fire damage field evaluations and field dam safety evaluations of both dams, the services will include surveying of survey monuments and survey markers, review of instrumentation and analysis of surveillance data, evaluation of survey data, submittal of a dam safety surveillance report for the years 2019 and 2020, and provision of assistance to the District on an as-requested basis to respond to questions from the State Division of Safety of Dams (DSOD) and to address any unusual event or operating condition that might occur which could impact the safe operating performance of the dams.

GENTERRA proposes to provide these services in a responsive, high-quality manner using a team of professionals with extensive experience in the evaluation and monitoring of dams. Key members of our proposed Project Team are very familiar with Magalia Dam and Paradise Dam due to our involvement for the District since 1999.

PROJECT UNDERSTANDING

GENTERRA proposes to conduct the dam safety surveillance program for the District and to prepare the 2019 and 2020 surveillance reports for Magalia Dam and Paradise Dam. The District (or GENTERRA on behalf of the District) will submit one copy of each report to DSOD. For

each dam, GENTERRA will perform an additional more comprehensive fire damage field evaluation, an assessment of burn areas, and a written report to present the findings. GENTERRA will provide one round of surveying at each dam and will perform one field evaluation of each dam during the calendar year. We understand that the District will provide the piezometer reading information, seepage flow rates, and rainfall data to GENTERRA on a monthly basis (or will provide access to the data on the District's Internet Website). It is our understanding that the District may request assistance from GENTERRA on an as-needed basis to address any unusual event or operating condition which may impact the safe operating performance of the dams.

SCOPE OF WORK

Task 1 - Fire Damage Field Evaluations, Field Dam Safety Evaluations, and Dam Safety Reports

This task includes the subtasks needed in order to conduct fire damage field evaluations, field dam safety evaluations, surveying, data analysis, and written reports. These subtasks are described below:

Subtask 1a - Fire Damage Field Evaluations, Assessment of Burn Areas, and Written Report

This subtask involves conducting field evaluations of fire damage that has occurred at both of the dams and reservoirs. This would be in addition to the limited evaluations and consultation provided to the District following the fire and will re-assess the conditions one year after the fire. GENTERRA will perform visual reconnaissance and evaluation of all surface features of the dams as well as the perimeter areas around the reservoirs to observe the post-burn areas. We will photograph areas that exhibit adverse impacts as a result of the recent fires. The features that we will address at the dams include the crest, upstream and downstream slopes, left and right abutment areas, spillways, and outlet works. We will evaluate the post-fire vegetation and soil-surface conditions as well as areas of instability, areas where erosion is occurring, and areas where erosion has resulted in migration of erodible materials to the reservoir. Our assessment of fire damage will address any areas where the District should remove debris and sediment deposits. Based on our findings, GENTERRA will develop recommendations for implementation of stabilization and mitigation measures. GENTERRA will prepare and submit a report that describes the specific areas where fire damage was apparent and recommended methods for mitigation of areas that were damaged by fire. Our report will include photographic documentation of the conditions encountered and will provide illustrations of methods that the District can employ to mitigate the damage.

Subtask 1b - Dam Safety Field Evaluations of the Dams and Reservoirs

During GENTERRA's annual field evaluations, we will visit both of the facilities and visually review the dams, reservoirs, and appurtenant structures including the spillways, outlet works, and adjacent areas at both dams. If possible, these visits will be scheduled to coincide with the periodic visual inspections by DSOD personnel. The field evaluations will include the following:

- A visual on-site review of the reservoirs to observe areas of instability or sources of debris;
- A visual on-site review of the dams to observe signs of cracking, settlement, rodent activity, erosion, bulging, wet spots or seeps, and piping; to assess the maintenance of the dams; and to observe flows from existing drainage systems;
- A visual evaluation of the surface condition of the existing instrumentation;
- A visual on-site review of the abutments to note areas of instability; and,
- A visual on-site review of appurtenant structures (i.e., spillways, inlet and outlet works, and pipelines) to observe the condition of concrete structures and mechanical equipment, including gates and valves, and to note if inlets are kept clear of debris; where possible, mechanical equipment will be exercised to assess their operability. If gates and valves cannot be operated due to safety or environmental reasons, a review of the operator's logs should be sufficient.

A photographic record of the dam evaluations will be obtained using a high-resolution digital camera. Selected photographs will be used in the report to help identify any potential issues of concern. All copies of the photographs will be available for transmittal to the District.

GENTERRA will perform the site visits with personnel who have experience in performing field dam safety evaluations for dams. We are currently involved in many projects where we are participating in evaluations jointly with the owner and DSOD representatives. We will address all aspects that could have an impact on the safety of the dams and the appurtenances, will make observation of any maintenance and operational needs. We believe that early detection of even small problems can result in significant reduction of future operational and maintenance costs.

Subtask 1c - Review and Analysis of Surveillance Data

This subtask includes GENTERRA's monthly review and analysis of the District's piezometer readings, seepage flow readings and field measurements taken at each dam. District staff are responsible for collecting the piezometer and seepage flow data and for entering them into the spreadsheets that were developed for this purpose. The spreadsheets are organized to facilitate the entry of the data, which include rainfall data, the depth to water in the piezometers, the flow rate at each of the seepage weirs, and the water level in the reservoir at the time of the piezometer readings and flow rate measurements. GENTERRA will prepare the data tables and

graphs that will be presented in the annual reports.

GENTERRA's data review process also includes an evaluation of the condition and performance of the instrumentation that is located at each of the two dams. GENTERRA will provide a timely assessment of the data and will comment on any unusual readings or apparent trends. We will notify the District and discuss any unusual condition that requires additional monitoring efforts or that warrants remedial action by the District.

Subtask 1d - Surveying and Evaluation of Survey Data at Each Dam

One round of surveying will be performed by GENTERRA at each dam in December 2019 and again during the 2020 calendar year. GENTERRA will perform the required surveying work in accordance with accepted surveying practice and using the survey equipment provided by the District. Upon completion of the survey, GENTERRA will analyze the survey data to determine the net horizontal and vertical movements that have occurred at both dams since the baseline measurements, provided that GENTERRA can get a copy of the survey report related to the baseline survey. If GENTERRA cannot get a copy of the baseline survey report, then the first survey to be performed by GENTERRA will become the new baseline survey, and then all future survey will use the new baseline survey data to determine the net horizontal and vertical movements at both dams. GENTERRA will prepare the data tables and graphs for presentation in the annual surveillance reports using the prior and new survey data. If the surveying results indicate any possible concerns regarding the safety of the dam, GENTERRA will provide recommendations to the District to address those concerns.

Subtask 1e - Prepare and Submit Draft and Final Annual Surveillance Reports

GENTERRA will prepare the draft surveillance reports for both dams for the 2019 and 2020 calendar years and will submit them to the District for review and approval. Once the District's review comments have been incorporated, the reports will be signed and stamped by a Professional Engineer, and three hard copies of each final report will be prepared: two for submittal to the District and one for submittal to the DSOD. The reports will summarize the results of the onsite field evaluations and will provide a description of the significance of the measurements that were recorded during the previous 24-month period. Each report will include conclusions and recommendations related to the performance, operation and maintenance of each dam. The reports will be in sufficient detail for submittal to the DSOD to meet the requirements of the "Statutes and Regulations Pertaining to Supervision of Dams and Reservoirs," which incorporates Parts 1 and 2 of Division 3 of the Water Code (Statutes), Subchapter 1 of Chapter 2, Title 23 of the California Administrative Code. We will consider and incorporate all significant safety, operational and maintenance issues previously reported so that continuity of those issues is maintained to the extent necessary.

Task 2 - Provide Other Assistance to the District (As Requested)

This task will be performed on an as-requested basis. Under this task, GENTERRA will provide assistance to the District with any unusual event or operating condition that might occur which could impact the safe operating performance of the dams. GENTERRA will provide emergency contact by phone or internet 24 hours per day, 7 days per week with access to our Project Manager or a designee. We will be reachable by the District at any time in case an emergency event occurs or a critical issue arises related to either of the dams or their appurtenances. We will be available to any answer questions by District staff or by representatives of the DSOD.

PROPOSED PROJECT TEAM

GENTERRA will commit a highly qualified and experienced team of professionals and support personnel to this project. The proposed project personnel include:

Project Manager/Principal Engineer - Joseph J. Kulikowski, PE, GE
Principal Engineers - Soma Balachandran, PhD, PE, GE and Douglas A. Harriman, PE
Project Engineer - Shuyu Liu, PE
Supervisory Field Technician - J. William Kulikowski

The proposed Project Manager and Principal Engineer for our services is Joseph J. Kulikowski, PE, GE. Mr. Kulikowski has more than 45 years of experience in civil, geotechnical and environmental engineering, with most of that time involved with the design and evaluation of dams in California. He has personally evaluated more than 300 dams and has been in responsible roles for the design of more than 30 dams. He spent almost seven years early in his career as an engineer with the California Division of Safety of Dams (DSOD) performing design reviews, construction review, field evaluations and monitoring review of dams throughout the entire State. He has extensive experience in coordination and review with DSOD representatives.

Other personnel who will participate on this project, as well as those who are available for additional services, include geotechnical and civil engineers, engineering geologists, structural engineers, hydrologists, field technicians, and support personnel with experience in the monitoring and review of the performance of earth, rockfill and hydraulic fill dams, and in the evaluation of the stability of dams.

PROPOSED PROJECT SCHEDULE

We are proposing the work to commence in December 2019 and be continued through December 2020. We are ready to commence the work on this project immediately following receipt of written authorization to proceed.

PROPOSED COSTS

A spreadsheet is attached presenting a breakdown of the estimated hours and costs for each task in the scope of work, with an estimated maximum cost for each task. The proposed maximum cost for each task has been determined based on several factors, including GENTERRA's long history with the District and a Good Faith Discount in consideration of the extreme hardship imposed on the District by the devastating Camp Fire. The proposed maximum cost for Task 1 for the two-year period 2019 and 2020 is \$29,690.

Work performed for Task 2, "Provide Other Assistance to the District (As Requested)," will be billed in accordance with the enclosed Professional Fee Schedule for GENTERRA's work during the full term of this contract. We do not have an estimate for Task 2, but the District is welcome to suggest a maximum budget amount for Task 2.

Invoices will be submitted monthly as the work is performed and completed.

CONTRACT REQUIREMENTS AND INSURANCE

After we receive notification of your agreement with this scope of work and cost estimate, we will review and execute the Agreement for Professional Engineering Services sent to us by the District. GENTERRA has the required insurance coverage and we can submit the necessary certificates and clauses.

Thank you for the opportunity to continue the District with our services. We are very interested in working with you on this project. Please contact me at (949) 753-8766 if you have any questions or wish to discuss this proposal in more detail.

Sincerely,
GENTERRA Consultants, Inc.



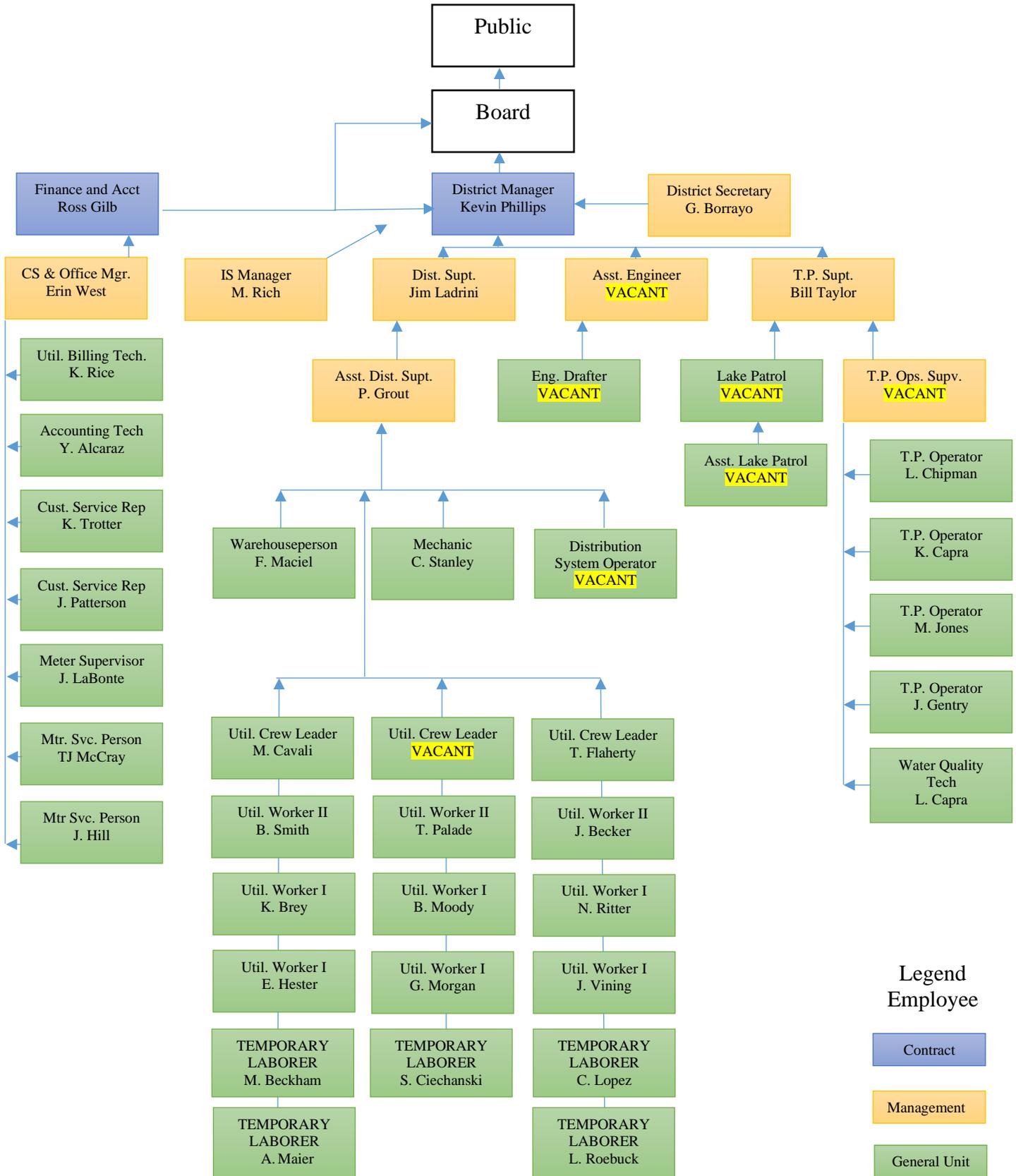
Joseph J. Kulikowski, PE, GE
President/Senior Principal Engineer

Enclosures:
Cost Estimate Spreadsheet
Professional Fee Schedule

cc: Keven Phillips, PID

**Fire Damage Inspections, Field Evaluations, and As-Requested Services
for Paradise Dam and Magalia Dam, Paradise Irrigation District (2019 and 2020)**

Cost Estimate - Paradise Irrigation District											
Fire Damage Field Evaluations, Dam Safety Field Evaluations, and As-Requested Services											
Calendar Year Period 2019 and 2020											
Proposal No. P2449, 12/04/2019											
ESTIMATED HOURS (2019 Fee Schedule)											
Task	Classification-->	Principal	Associate	Sr. Proj.	Supr.	Tech.	Word	Total	Total	Expenses	TOTAL
		Engr	Engr	Engr	Field Tech	Illustr.	Process.	Hours	Labor	Travel,	COST
	Name----->	JJK/SB	DAH	SL	JWK				Cost	Repro.,	
	Hourly Rate----->	\$275	\$235	\$215	\$150	\$90	\$85			Misc.	
1	Task 1-Fire Damage Insp, Field Evaluation, and Dam Safety Reports										
1a	Fire Damage Inspections, Assessment of Burn Areas, and Written Report	2	8	0	8	4	2	24	\$ 4,160.00	\$ 450.00	\$ 4,610.00
1b	Dam Safety Field Evaluations of the Dams and Reservoirs	8	0	0	8	0	2	18	\$ 3,570.00	\$ 400.00	\$ 3,970.00
1c	Review and Analysis of Surveillance Data for 2019 and 2020	4	12	0	6	6	0	28	\$ 5,360.00		\$ 5,360.00
1d	Surveying and Evaluation of Survey Data at Each Dam (2 Surveys)	6	0	22	22	6	0	56		\$ 450.00	\$ 6,900.00
1e	Preparation and Submittal Draft & Final Surveillance Reports for Each Dam	6	12	0	16	6	4	44	\$ 7,750.00	\$ 1,100.00	\$ 8,850.00
2	Task 2-Provide Other Assistance to the District (If and As-Needed)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	\$ -	\$ -	\$ -
	Subtotal Labor	26	32	22	60	22	8	170		Total Budget	\$ 29,690.00
										Total Budget	\$ 29,690.00



Legend
Employee

- Contract
- Management
- General Unit



PARADISE IRRIGATION DISTRICT

6332 Clark Road, Paradise CA 95969 | Phone (530)877-4971 | Fax (530)876-0483

AGENDA

**ANNUAL MEETING OF THE
BOARD OF DIRECTORS
PARADISE IRRIGATION DISTRICT
PUBLIC FACILITIES FINANCING CORPORATION
6332 CLARK ROAD, PARADISE, CA 95969**

WEDNESDAY, DECEMBER 18, 2019

1. OPENING
 - a. Call to Order
 - b. Roll Call

2. APPROVAL OF MINUTES
 - a. Approval of Minutes: February 20, 2019 Annual Meeting of the Public Facilities Financing Corporation

3. PUBLIC PARTICIPATION

Members of the audience will be given an opportunity to present items not scheduled on the agenda. No action can be taken on these items, but they may be placed on future agendas for consideration. Comments should be limited to a maximum of five minutes duration. Opportunity for public comment on agenda items will be provided at the time they are discussed by the Board with comments limited to 5 minutes per item.

4. DISCUSSION: Public Facilities Financing Corporation – Organization, Purpose, and Use of Funds (Manager Phillips). *Information item only.*

5. ADJOURNMENT
 - a. Adjourn as the Public Facilities Financing Corporation and convene as the Paradise Irrigation District Board of Directors.

MINUTES

ANNUAL MEETING OF THE
BOARD OF DIRECTORS
PARADISE IRRIGATION DISTRICT
PUBLIC FACILITIES FINANCING CORPORATION
FEBRUARY 20, 2019

The annual meeting of the Board of Directors of the Paradise Irrigation District Public Facilities Financing Corporation was called to order at 9:14 p.m. by President Marc Sulik.

OPENING

BOARD MEMBERS PRESENT: Directors Dan Hansen, President Marc Sulik, Vice-President Bob Prevot, and Bill Kellogg

ROLL CALL

BOARD MEMBERS ABSENT: Division 3 Director seat vacant following a letter of resignation submitted from Anne Rice effective today, February 20, 2019.

STAFF PRESENT: District Manager Kevin Phillips and Secretary Georgeanna Borrayo

ALSO PRESENT: PID Legal Counsel Emily LaMoe and members of the public

It was moved by Director Prevot and seconded by President Sulik to approve the December 20, 2017 Minutes of the Annual Meeting of the Paradise Irrigation District Public Facilities Financing Corporation (PFFC).

APPROVAL OF
MINUTES
DEC. 20, 2017
ANNUAL MEETING

AYES: Directors Hansen, Prevot, Kellogg, and Sulik
NOES: None
ABSENT: Division 3 Director seat vacant

Motion passes 4-0

There were no comments pertaining to matters not scheduled on the Agenda.

PUBLIC
PARTICIPATION

District Manager Kevin Phillips provided an overview regarding the purpose and use of funds under the Paradise Irrigation District Public Facilities Financing Corporation (PFFC). The Corporation was established for the purpose of providing a vehicle for the Board to pledge revenues to acquire debt to purchase assets by financing the acquisition, construction and installation of public facilities for the use and benefit of the Corporation. Under the PFFC, the District has the authority to issue bonds without having to get voter approval. The District does not currently have outstanding debt in which the Corporation has authorized a financing action. An annual meeting of the PFFC Board is held to remain in good standing throughout continuance of the Corporation.

PUBLIC FACILITIES
FINANCING
CORPORATION:
ORGANIZATION,
PURPOSE, & USE
OF FUNDS

As there were no further questions or comments, it was moved by President Sulik to adjourn the meeting. The annual meeting of the PID Public Facilities Financing Corporation was adjourned at 9:19 p.m.

ADJOURNMENT

Georgeanna Borrayo, Secretary

Marc Sulik, President

BYLAWS
OF THE PARADISE IRRIGATION DISTRICT
PUBLIC FACILITIES FINANCING CORPORATION

ARTICLE I

NAME, ORGANIZATION AND PURPOSE,
PRINCIPAL OFFICE, SEAL

Section 1.01. Name. The name of this corporation is the "Paradise Irrigation District Public Facilities Financing Corporation" (the "Corporation").

Section 1.02. Organization. Purpose and Use of Funds.
The activities of the Corporation shall be limited to the activities described in its Articles of Incorporation. No gains, profits or dividends shall be distributed to any of the directors or officers of the Corporation, and no part of the net earnings, funds or assets of the Corporation shall inure to the benefit of any director, officer or individual or any other person, firm or corporation excepting only the Paradise Irrigation District or the United States of America, the State of California, or any municipal corporation or political subdivision thereof, or to a nonprofit fund, foundation or corporation which is organized and operated exclusively for charitable or social welfare purposes and which has established its tax-exempt status under Section 501(c)(3) or 501(c)(4) of the Internal Revenue Code of 1986.

Section 1.03. Principal Office. The principal office of the Corporation for its transaction of business is located at the office of the Paradise Irrigation District, 6332 Clark Road, Paradise, California 95969. The Board of Directors is hereby granted full power and authority to change the principal office of the Corporation from one location to another in Paradise, California. Any such change shall be noted by the Secretary in an appendix to these Bylaws, but no such appendix shall be considered an amendment of these Bylaws.

Section 1.04. Seal. The corporate seal of the Corporation shall set forth the name of the Corporation and shall have inscribed thereon the words "Incorporated January 13, 1993, California."

ARTICLE II

MEMBERSHIP

Section 2.01. The Corporation shall have no members.
Any action which would otherwise require approval by a majority of all members or approval by the members shall require only approval of the Board of Directors. All rights which would otherwise vest in the members shall vest in the Board of Directors.

ARTICLE III

BOARD OF DIRECTORS

Section 3.01. Number. Subject to Section 3.03 of these Bylaws, the Corporation shall have five (5) directors, which shall constitute and shall be known as the "Board of Directors."

Section 3.02. Qualifications. The individuals who serve as members of the Board of Directors of the Paradise Irrigation District shall also serve as Directors of the Corporation.

Section 3.03. Term of Office. Each Director shall hold office until such person ceases to be a member of the Board of Directors of the Paradise Irrigation District. Each person who takes office as a member of the Board of Directors of the Paradise Irrigation District shall concurrently take office as a member of the Board of Directors of the Corporation, without the necessity for any further action on the part of the Board of Directors of either the Paradise Irrigation District or the Corporation.

Section 3.04. Place of Directors' Meetings. Meetings of the Board of Directors shall be held at the principal office of the Corporation unless a different place is designated in the notice of such meeting.

Section 3.05. Regular Meetings. The Board of Directors by resolution may provide for the holding of regular meetings and may fix the time and place of holding such meetings.

Section 3.06. Special Meetings. Special meetings of the Board of Directors may be called in accordance with the provisions of Section 54956 of the Government Code of the State of California.

Section 3.07. Quorum and Manner of Action. A majority of the Board of Directors shall constitute a quorum for the transaction of business by the Board of Directors, except that less than a quorum may adjourn from time to time. No action may be taken by the Board of Directors except upon the affirmative vote of a majority of the members of the Board of Directors.

Section 3.08. Action by Written Consent. Any action required or permitted to be taken by the Board of Directors under any provision of law or these Bylaws may be taken without a meeting if all members of the Board of Directors shall individually or collectively consent in writing to such action. All such consents shall be filed with the corporate records and made a part of the minutes of the proceedings of the Board of Directors. Such action by written consent shall have the same force and effect as a unanimous vote of such directors. Any certificate or other document filed under any provision of law which relates to action so taken shall state that the action was taken by unanimous written consent of the Board of Directors without a meeting and that these Bylaws of the Corporation authorize the directors to so act and such statement shall be prima facie evidence of such authority.

Section 3.09. Notice; Conduct of Meetings. All meetings of the Board of Directors shall be called, noticed, held and conducted subject to the provisions of the Ralph M. Brown Act (Chapter 9 of Part 1 of Division 2 of Title 5 of the Government Code of the State of California, being Sections 54950-54962 thereof). The President or, in his or her absence, the Vice-President shall preside at all meetings of the Board of Directors.

Section 3.10. Resignations and Vacancies. Any director of the Corporation may resign at any time by giving written notice to the President or to the Board of Directors, and, where such resignation would leave the Corporation without a duly elected director or directors in charge of its affairs, to the Attorney General of the State of California. Such resignation shall take effect at the time specified therein, and, unless otherwise specified therein, the acceptance of such resignation shall not be necessary to make it effective.

A vacancy or vacancies in the Board of Directors shall be deemed to exist in the event of the death, resignation or removal of any director. Any vacancy in the Board of Directors shall be filled by a majority of the remaining directors, whether or not less than a quorum, subject to the prior approval of the Board of Directors of the Paradise Irrigation District.

Section 3.11. Compensation of Directors. No member of the Board of Directors shall be entitled to receive any compensation for serving as a director or as an officer of the Corporation, except that any director or officer may be reimbursed for expenses duly incurred in the performance of duties as director or officer of the Corporation, upon approval of the Board of Directors.

Section 3.12. Removal of Directors. Any director may be removed by the vote of a majority of all directors or by the Board of Directors of the Paradise Irrigation District for cause.

Section 3.13. Notice to and Attendance by the Board of Directors of the Paradise Irrigation District. Notice of all meetings of the Board of Directors of the Corporation shall be given by the Secretary of the Corporation to the Secretary of the Paradise Irrigation District, and representatives of the Board of Directors of the Paradise Irrigation District may attend and may make comments at all such meetings.

ARTICLE IV

POWERS OF BOARD OF DIRECTORS

Section 4.01. General Powers of Board of Directors. All corporate powers shall be exercised by or under the authority of, and the business, property and affairs of the Corporation shall be controlled by, the Board of Directors. The Board of Directors may delegate the management of the activities of the Corporation to any person or persons, management company or committee, however composed; provided, that the activities and affairs of the Corporation shall be managed and all corporate powers shall be exercised under the ultimate direction of the Board of Directors.

Section 4.02. Indemnification. To the fullest extent permitted by law, the Board of Directors may authorize indemnification by the Corporation of any person who is or was a director, officer, employee or other agent of the Corporation, and who was or is a party or is threatened to be made a party to a proceeding by reason of the fact that such person is or was such a director, officer, employee or other agent of the Corporation, against expenses, judgments, fines, settlements and other amounts actually and reasonably incurred in connection with such proceeding, if such person acted in good faith and in a manner such person reasonably believed to be in the best interests of the Corporation and, in the case of a criminal proceeding, had no reasonable cause to believe the conduct of such person was unlawful and, in the case of an action by or in the right of the Corporation, acted with such care, including

reasonable inquiry, as an ordinarily prudent person in a like position would use under similar circumstances.

Section 4.03. Incurring of Indebtedness. The Board of Directors, on behalf of the Corporation and in furtherance of its proper purposes, may incur such indebtedness, may issue bonds, notes, debentures and other evidences of indebtedness of the Corporation, may secure the same by mortgage, transfer in trust, pledge or other encumbrance of the whole or any part of the assets of the Corporation, may establish funds and make other provisions for the payment of such indebtedness and interest thereon, and may otherwise act or enter into other agreements in connection therewith, in each case as shall be deemed necessary or appropriate by the Board of Directors.

Section 4.04. Loans and Other Agreements. Subject to the provisions of the California Nonprofit Public Benefit Corporation Law, the Board of Directors, on behalf of the Corporation and in furtherance of its proper purposes, may make loans to, enter into leases or subleases with, or otherwise enter into agreements with, any person, and may take such collateral or other security with respect thereto and may otherwise act or enter into other agreements in connection therewith, in each case as shall be deemed necessary or appropriate by the Board of Directors.

ARTICLE V

OFFICERS

Section 5.01. Number and Qualifications. The officers of the Corporation shall be a President, a Vice President, a Chief Financial Officer and a Secretary and such subordinate officers, including one or more assistant secretaries and assistant financial officers, as the Board of Directors may appoint. Only members of the Board of Directors shall be qualified to hold the office of President or Vice President and neither the Secretary nor the Chief Financial Officer may serve concurrently as the President.

Section 5.02. Election, Term of Office. The person who acts as President of the Paradise Irrigation District shall automatically serve as the President of the Corporation; the person who acts as the Vice President of the Paradise Irrigation District shall automatically serve as the Vice President of the Corporation; and the person who serves as the Secretary of the Paradise Irrigation District shall automatically serve as the Secretary of the Corporation.

Section 5.03. Resignations. Any officer may resign at any time by giving written notice to the President or to the Secretary of the Corporation. Any such resignation shall take effect at the time specified therein and, unless otherwise specified therein, the acceptance of such resignation shall not be necessary to make it effective.

Section 5.04. Vacancies. A vacancy in any office because of death, resignation, removal, disqualification or any other cause, shall be filled in the manner prescribed in these Bylaws for regular appointment to such office.

Section 5.05. President. The President shall be the Chief Executive Officer of the Corporation and shall have general supervision over the business of the Corporation, subject, however, to the control of the Board of Directors. The President shall preside at all meetings of the Board of Directors. The President may sign and execute, in the name of the Corporation,

deeds, mortgages, leases, bonds, contracts and other instruments duly authorized by the Board of Directors, and generally shall perform all duties incident to the office of President and such other duties as may from time to time be assigned to such office by the Board of Directors. At each meeting of the Board of Directors, the President shall submit such recommendations and information as he or she may consider proper concerning the business, affairs and policies of the Corporation.

Section 5.06. Vice-President. At the request of the President or in case of his or her absence or disability, the Vice-President shall perform all duties of the President and, when so acting, shall have all the powers of, and be subject to all restrictions upon, the President. In addition, the Vice-President shall perform such other duties as may from time to time be assigned to that office by the Board of Directors or the President.

Section 5.07. Secretary. The Secretary shall:

- (a) Certify and keep at the office of the Corporation, or at such other place as the Board of Directors may order, the original or a copy of these Bylaws, as amended or otherwise altered;
- (b) Keep at the office of the Corporation, or at such other place as the Board of Directors may order, a book of minutes of all meetings of the directors, recording therein the time and place of holding, whether regular or special, and, if special, how authorized, the notice thereof given, and the proceedings thereat;
- (c) See that all notices are duly given in accordance with the provisions of these Bylaws or as required by law;
- (d) Be custodian of the records and seal of the Corporation;
- (e) Exhibit at all reasonable times to any director, upon application, these Bylaws and the minutes of the proceedings of the directors of the Corporation; and
- (f) In general, perform all duties of the office of Secretary and such other duties as may from time to time be assigned to such office by the Board of Directors or the President.

Section 5.08. Chief Financial Officer. Subject to the provisions of the proceedings authorizing any debt or other obligation of the Corporation which may provide for a trustee to receive, have the custody of and disburse Corporation funds, the Chief Financial Officer shall receive and have charge of all funds of the Corporation and shall disburse such funds only as directed by the Board of Directors. The Chief Financial Officer shall, in general, perform all duties incident to the office of Chief Financial Officer and such other duties as may from time to time be assigned to such office by the Board of Directors or the President. The Chief Financial Officer shall have the additional title of "Treasurer."

Section 5.09. Subordinate Officers. Subordinate officers shall perform such duties as shall be prescribed from time to time by the Board of Directors or the President.

ARTICLE VI

DISSOLUTION

Section 6.01. The Corporation shall not be voluntarily dissolved, except with the prior written consent of the Board of Directors of the Paradise Irrigation District and by approval of the Board of Directors. In the event of dissolution of the Corporation in any manner and for any cause, after the payment or adequate provision for the payment of all of its debts and liabilities, all of the remaining funds, assets and properties of the Corporation shall be paid or distributed as provided in the Articles of Incorporation.

ARTICLE VII

GENERAL

Section 7.01. Fiscal Year. The fiscal year of the Corporation shall begin July 1 and end June 30 of each year, except the first fiscal year which shall run from the date of incorporation to July 1, 1993.

Section 7.02. Construction and Definitions. Unless otherwise provided herein or in the Articles of Incorporation, the general provisions, rules of construction and definitions contained in the General Provisions of the California Nonprofit Corporation Law and in the California Nonprofit Public Benefit Corporation Law shall govern the construction of these Bylaws.

ARTICLE VIII

AMENDMENT OF BYLAWS AND ARTICLES OF INCORPORATION

Section 8.01. Amendment of Bylaws. Any of these Bylaws may be amended or repealed, and new Bylaws may be adopted, with the prior written consent of the Board of Directors of the Paradise Irrigation District and by the affirmative vote of a majority of the members of the Board of Directors.

Section 8.02. Amendment of Articles of Incorporation. The Articles of Incorporation of the Corporation may be amended with the prior written consent of the Board of Directors of the Paradise Irrigation District and by unanimous vote of the members of the Board of Directors.