



AGENDA
SPECIAL MEETING OF THE BOARD OF DIRECTORS
District Board Room, 2890 Mosquito Road, Placerville, California
February 13, 2017 — 9:00 A.M.

Board of Directors

George Osborne—Division 1
President

Michael Raffety—Division 3
Vice President

Greg Prada—Division 2
Director

Dale Coco, MD—Division 4
Director

Alan Day—Division 5
Director

Executive Staff

Jim Abercrombie
General Manager

Brian D. Poulsen, Jr.
General Counsel

Jennifer Sullivan
Clerk to the Board

Jesse Saich
Communications

Brian Mueller
Engineering

Mark Price
Finance

Jose Perez
Human Resources

Tim Ranstrom
Information Technology

Margaret Washko
Operations

PUBLIC COMMENT: Anyone wishing to comment about items not on the Agenda may do so during the public comment period. Those wishing to comment about items on the Agenda may do so when that item is heard and when the Board calls for public comment. Public comments are limited to five minutes per person.

PUBLIC RECORDS DISTRIBUTED LESS THAN 72 HOURS BEFORE A MEETING: Any writing that is a public record and is distributed to all or a majority of the Board of Directors less than 72 hours before a meeting shall be available for immediate public inspection in the office of the Clerk to the Board at the address shown above. Public records distributed during the meeting shall be made available at the meeting.

AMERICANS WITH DISABILITIES ACT: In accordance with the Americans with Disabilities Act (ADA) and California law, it is the policy of El Dorado Irrigation District to offer its public programs, services, and meetings in a manner that is readily accessible to everyone, including individuals with disabilities. If you are a person with a disability and require information or materials in an appropriate alternative format; or if you require any other accommodation for this meeting, please contact the EID ADA coordinator at 530-642-4045 or email at adacoordinator@eid.org at least 72 hours prior to the meeting. Advance notification within this guideline will enable the District to make reasonable accommodations to ensure accessibility.

CALL TO ORDER

Roll Call

ADOPT AGENDA

PUBLIC COMMENT

ACTION ITEMS

1. Operations / Engineering (Washko/Mueller)

Consideration to declare an emergency under applicable provisions of the Public Contract Code and Public Resources Code as a result of recent and ongoing storms; ratify the General Manager's award of a construction contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$64,000 and authorize total funding in the amount of \$248,800 for the emergency repair and replacement of a failed section of the Town Center force main; Project No. 17002.01; ratify the General Manager's award of a pumping and hauling contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$135,000 for the emergency pumping of raw sewage from the El Dorado Lift Station; ratify the General Manager's award of a pumping and hauling contract to Advance Septic in the not-to-exceed amount of \$94,437.50 for the emergency pumping of raw sewage from the Camino Heights Wastewater Treatment Plant; delegate, authorize, and direct the District General Manager and his designees to take all further actions reasonably deemed necessary to respond to the emergency declared herein.

Option 1: Adopt a resolution declaring an emergency under Public Contract Code sections 11102 and 22050(a)(1) and Public Resources Code section 21080 as a result of recent and ongoing storm activities; ratify the General Manager's award of a construction contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$64,000 and authorize total funding in the amount of \$248,800 for the emergency repair and replacement of a failed section of the Town Center force main; Project No. 17002.01; ratify the General Manager's award of a pumping and hauling contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$135,000 for the emergency pumping of raw sewage from the El Dorado Lift Station; ratify the General Manager's award of a pumping and hauling contract to Advance Septic in the not-to-exceed amount of \$94,437.50 for the emergency pumping of raw sewage from the Camino Heights Wastewater Treatment Plant; delegate, authorize, and direct the District General Manager and his designees to take all further actions reasonably deemed necessary to respond to the emergency declared herein.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1 (*four-fifths vote required*).

CLOSED SESSION

A. Closed session pursuant to Government Code section 54956.9 (Poulsen)

Conference with General Counsel – Significant Exposure to Litigation pursuant to Government Code Section 54956.9(d)(2); one potential case (Central Valley Regional Water Quality Control Board enforcement action for alleged violations of the Dewatering and Other Low Threat Discharges to Surface Waters Waste Discharge Requirements, Central Valley Water Board Order R5-2013-0074-027)

ADJOURNMENT

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consideration to declare an emergency under applicable provisions of the Public Contract Code and Public Resources Code as a result of recent and ongoing storms; ratify the General Manager's award of a construction contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$64,000 and authorize total funding in the amount of \$248,800 for the emergency repair and replacement of a failed section of the Town Center force main; Project No. 17002.01; ratify the General Manager's award of a pumping and hauling contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$135,000 for the emergency pumping of raw sewage from the El Dorado Lift Station; ratify the General Manager's award of a pumping and hauling contract to Advance Septic in the not-to-exceed amount of \$94,437.50 for the emergency pumping of raw sewage from the Camino Heights Wastewater Treatment Plant; delegate, authorize, and direct the District General Manager and his designees to take all further actions reasonably deemed necessary to respond to the emergency declared herein.

Previous Board Actions

June 13, 2016 – Board awarded a professional services agreement to Domenichelli and Associates in the not-to-exceed amount of \$86,830, and authorized total funding of \$232,990 for the Town Center Force main replacement

Board Policies (BP), Administrative Regulations (AR), and Board Authority

The District's mission is to provide high quality water, wastewater treatment, recycled water, hydropower, and recreation services in an environmentally and fiscally responsible manner.

BP 3060 provides "Except during emergencies, the Board of Directors shall approve all contracts or procurements with values greater than \$50,000, and construction contract change orders with values greater than \$100,000. In the event of an emergency requiring immediate contract or procurement action, the General Manager is hereby authorized to approve any and all contracts necessary to abate the emergency after first informing the President of the Board of Directors and scheduling an emergency meeting of the Board of Directors at the earliest possible opportunity. The General Manager shall bring any and all contracts or procurements with values exceeding the levels set forth above, but approved during an emergency, to the Board of Directors for ratification at the first meeting of the Board immediately following the emergency."

Public Contract Code section 11102: An emergency is a sudden, unexpected occurrence that poses a clear and imminent danger, requiring immediate action to prevent or mitigate the loss or impairment of life, health, property, or essential public services.

Public Contract Code section 220567 and 22050 et. seq. authorizes and prescribes procedures for emergency contracting by irrigation districts.

Public Resources Code section 21080(b) and California Environmental Quality Act ("CEQA") Guidelines section 15269 exempt emergency projects from the requirements of CEQA.

Summary of Issues

Town Center Force Main failure

On Saturday, January 28, 2017, EID staff found another break in the Town Center force main (TCFM) on Motherlode Drive. Seven breaks have occurred along the TCFM since 2014. The pipe is in such a state of failure that the most recent break requires immediate replacement of approximately 400' in order to connect to piping that is stable and reliable.

El Dorado lift station pumping

Since January 1, 2017, over 25 inches of rain have fallen in Placerville, CA often times intense amounts of rain in short periods of time. The intense rainfall resulted in saturation and on February 8, 2017 at 10:00 AM the 3 wetwell wastewater pumps at El Dorado Lift Station could not keep up and the equalization pond was filled to legal capacity. Contract pumping and truck hauling is needed to avoid overflows into the second pond and to avoid a resulting violation.

Camino Heights Wastewater Pumping

During this recent series of storms, to stay within the discharge total allowed in the permit, the District hired contract hauling to the District's other treatment plants.

Collapses and Soil Failure Repairs

Several soil failures have recently occurred. On February 7, 2017, a soil failure deposited material in the canal which then resulted in water overtopping and collapse of a large section of the canal. Staff is currently evaluating soil failures in other areas of the District, including another potentially significant failure on District property off of 8-mile Road in Pollock Pines and others at Sly Park recreation area. These failures pose a threat to District properties and facilities. Immediate action is needed to protect the facilities against further damage as the rainy season continues.

Staff Analysis/Evaluation

Town Center Force Main

Background

The TCFM extends from the Town Center lift station in El Dorado Road (due west of the Kmart shopping center) to the Mother Lode force main in Mother Lode Drive, and eventually discharges to the Deer Creek wastewater treatment plant in Cameron Park. It is a critical part of the sewer collection system that collects and pumps approximately 184 services including the Safeway and Kmart shopping centers, Indian Creek Elementary School, El Dorado County Office of Education, Folsom Lake College, Green Valley Church and the 40 parcel Long View Estates subdivision. The TCFM was installed in 1980.

The force main consists of approximately 12,885 feet of 8-inch asbestos cement ("AC") pipe and 915 feet of 10-inch polyvinyl chloride ("PVC") pipe, the latter replacing a failing section of the original pipeline in 2014. The Town Center lift station and related force main receive all the District's sewer flows from the Missouri Flat area north of Highway 50.

Hydrogen sulfide corrosion has weakened portions of the AC pipe structure and has caused multiple breaks. Specifically, seven pipeline failures have occurred since 2014 all resulting in raw sewage spills to the environment in violation of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (Order No. 2006-0003-DWQ).

In response to the April 28, 2016 failure, the Board awarded an engineering contract to Domenichelli and Associates, Inc. to design the replacement pipeline. Previously, the Board also approved replacement of a small section of the original AC force main that was experiencing breaks in 2014 (TCFM Phase I). This replacement consisted of installing 915 feet of 10-inch PVC at the intersection of El Dorado Road and Mother Lode Drive. The Phase II replacement project, currently nearing completion of design, will be bid soon and brought to the Board in late March 2017 to replace a 4,800' section from Highway 50 to the new section replaced in 2014 on El Dorado Road. This project will replace the section of pipe with the majority of the recent failures.

Unfortunately, the most recent break occurred downstream of the planned Phase II project and downstream of the 2014 replacement section, which necessitates this emergency action. The timing of subsequent phases to replace the entire force main will be evaluated and brought back for Board consideration.

Current Situation

Since the latest break, operations staff has had to utilize three septage hauling contractors to pump out of the Town Center lift station wetwell in addition to five other private pumped services that also utilize the force main. The force main is currently non-operational. As evidenced from previous and recurring failures, immediate repair efforts have had trouble finding good stable pipe to hook up to. The emergency work involves replacing this section of 8-inch AC pipe extending from the connection at the new 10-inch pipe placed in Motherlode Drive in 2014 and continuing beyond the current break location toward Pleasant Valley Road for approximately 400 linear feet until good pipe can be found. During the recent rain events the pumps in the Towne Center Lift Station have been running at capacity which has increased pressure from routine operations. It is likely that the pipeline will continue to fail when high flow conditions exist until it is fully replaced.

The District has nearly 628 miles of sewer pipelines, with an average service life of about 50 years. Therefore, the rate of sewer line replacement would be about 12.5 miles per year. The current CIP program represents only about 0.11 miles of replacement per year, which equates to about 0.7% of the amount of sewer pipeline replacement. Although many of the District's sewer lines are still several years from the anticipated service life, these figures show that the District must substantially increase its future investments in sewer line replacement to sustain reliable sewer service over time.

Estimated Expenditures

Task	Supplier	Fee
Pipe replacement of approximately 400 feet	Doug Veerkamp General Engineering, Inc.	\$64,000
Lift Station and five private pump station bypass pumping	Three Septage Hauling Contractors	\$72,000
Paving	Doug Veerkamp General Engineering Inc. on call paving contract	\$40,000
Capitalized labor (for pumping, engineering, inspection, etc.)	EID	\$30,000
Contingency	Doug Veerkamp General Engineering, Inc. and Others	\$42,800
<i>Estimated Total</i>		<i>\$248,800</i>

The total estimated cost for this emergency repair is approximately \$600 per linear foot. The planned Phase II replacement has an estimated cost of \$270 per linear foot.

Project Funding

The project will be funded from wastewater rates. Funding of \$248,800 is requested to cover the replacement which is anticipated to be completed by the week of February 13, 2017.

Environmental Review

Public Resources Code section 21080(b) and CEQA Guidelines section 15269(b) and (c) exempt emergency projects of this nature from the requirements of CEQA. Upon Board adoption of the resolution, staff will file a Notice of Exemption from CEQA with the El Dorado County Clerk-Recorder's Office.

El Dorado Lift Station Pumping and Hauling

Background

The El Dorado lift station is a large sewer lift station at the head of the Mother Lode force main. It is a critical District asset and is the only means for routing wastewater from the Mother Lode sewershed to the Deer Creek WWTP for subsequent treatment and disposal. There are two overflow basins at the lift station intended to attenuate peak flows, however the District is prohibited from overflowing into the second basin without violating.

Current Situation

During this recent series of storms, District trucks did not have enough capacity to deal with the flow coming into the El Dorado Lift Station without overflowing into the second basin. Doug Veerkamp General Engineering provided 8 water trucks and 2 pumps that were operated for 54-hours straight to keep the sewage from overflowing the permitted equalization basin or the manholes out in the Mother Lode collection system. The total volume of sewage manually pumped and transported was approximately 954,000 gallons. If an SSO of this magnitude occurred, the Regional Water Quality Control Board could seek administrative civil liability fines against the District of up to \$10 per gallon of sewage spilled plus the capital cost of projects that were in planning documents or the CIP and not built--approximately \$7.5 million for the Mother Lode pipeline and \$9.5 million for the SSO. Pumping on an emergency basis averted a potential fine up to \$17 million.

Estimated Expenditures

Task	Supplier	Fee
Pump and Truck approximately 954,000 gallons of raw wastewater from the El Dorado Lift Station to the plants	Doug Veerkamp General Engineering, Inc.	\$135,000

Project Funding

The project will be funded from the wastewater operations budget. It is likely that the budget will require an adjustment at the September review to accommodate this unexpected expense.

Camino Heights Wastewater Treatment Facility

Background

The Camino Heights Wastewater Treatment Facility (CHWWTF) is an open pond treatment system that serves 121 sewer connections with a population of 315 people in Camino Heights. Wastewater from the system is land applied through a spray field and sub-drip irrigation field. Per the discharge permit, the District is not allowed to spray during rain events. Because of rising level in Pond 3 and the concern of breaching the Pond and spilling into a nearby creek, staff took proactive measures to utilize the spray field system and run the tailwater return system during the rain events in January and February. Staff alerted the Regional Board that spraying of treated wastewater was occurring during the rain. Additionally, in order to not violate total discharge limit of 1.2 million gallons per month the District augmented disposal by using contract septage hauling from CHWWTF to the Deer Creek or El Dorado Hills Wastewater Treatment Plants.

Current Situation

During this recent series of storms, to stay within the discharge total allowed in the permit the District hired contract hauling to the treatment plants. The District contracted with Sweet Septic Inc., Advanced Septic Services, and Sierra Septic to provide hauling on a daily basis. The total volume of sewage manually pumped and transported by contract crews was 677,600 gallons since the first of the year through February 9, 2017 another 352,800 gallons are anticipated to be hauled through the end of February. Currently the District has sprayed approximately 75% of the permitted allotment and further trucking may be required if more rain occurs. If an SSO of this magnitude occurred, the Regional Water Quality Control Board could pursue administrative civil liability against the District of up to \$10 per gallon of sewage spilled. Pumping on an emergency basis averted a potential fine of up to \$7 million dollars so far.

Estimated Expenditures

Task	Supplier	Fee
Pump and Truck approximately 357,200 through February 9 and are anticipated to manage an additional 352,800 through February 28 gallons of raw wastewater from Camino Heights Facility to Deer Creek or El Dorado Hills WWTP	Advanced Septic Services for pumping through February 9, 2017 and anticipated pumping through February 28, 2017	\$94,437.50
Pump and Truck approximately 338,400 gallons of raw wastewater from Camino Heights Facility to Deer Creek or El Dorado Hills WWTP	Sweet Septic Inc. through February 9, 2017	\$29,225
Pump and Truck approximately 7,200 gallons of raw wastewater from Camino Heights Facility to Deer Creek or El Dorado Hills WWTP	Sierra Site Services	\$675
Estimated Total		\$124,450

Project Funding

The project will be funded from the wastewater operations budget. It is likely that the budget will require an adjustment at the September review to accommodate this unexpected expense.

Collapses and Soil Failure Repairs

Background

Staff has inspected the failure sites, assessed the condition of each, and are developing a plan of action to make repairs. Temporary actions were taken to secure each site and mitigate the immediate hazard when it was safe to do so; however permanent fixes must be further developed to prevent further damage to District facilities.

The most significant confirmed collapses and soil failures are described below:

- Near Flume 10 – a plug of debris material in the El Dorado Canal completely blocked flow resulting in overtopping of the canal immediately upstream of the blockage. The overtopping water created a scour and collapse of the canal and adjacent soil berm. Approximately 60-feet of the canal was broken and pushed downhill and 160-feet of the bench collapsed on the downhill side of the flume. The geotechnical engineer has indicated that the area must be dewatered to stabilize the slope and then further investigation and options for repair will be delineated once it is safe to assess the underlying material. District crews started Friday to clear an old access road to give contractors access for dewatering.
- Flume 5 – approximately 1,500 cubic yards of saturated soil and rock material slumped, creating terraces of material as it collapsed down onto the flume section. The material is being held by the flume with part of the walkway broken from the pressure. The geotechnical engineer is considering removal of 3 to 4 sections of flume and then pushing down 1,500 yards of the material into a stockpile area and then using cable nets or wire mesh to hold significant rock that is present above the collapsed soil. This site will require helicopter access for equipment and supplies.
- 8-mile Road in Pollock Pines – this site is under investigation and more information will be provided at the meeting on Monday. It appears that a collapse of soil material on District property has occurred and could impact the 24-inch Moose Hall transmission main. A geotechnical engineer is headed to the site on Friday to assess immediate hazards and further information will be presented at the Board meeting. This issue will require significant trench stability and hillside restoration.

The failures of the canal have shut down diversions into the canal at Kyburz. Some water is still being conveyed in the canal and to the powerhouse from downstream diversions and accretions. However, significant work, time and expense will be required to restore the canal back to service. Staff and our consultants are evaluating both temporary and permanent options to restore the El Dorado Canal.

Staff intends to contract with GHD to assist with the soil collapses and failures at the canal locations and Youngdahl to assist with the 8-mile Road collapse.

Current Situation

These situations meet the requirements of District policy and state law for an emergency.

- The collapses and soil failures were sudden, unexpected occurrences that pose clear and imminent dangers to public health and safety and essential public services.
- Immediate action is required to prevent or mitigate the loss or impairment of life, health, property, or essential public services in the ways cited below:
 - Each soil collapse and soil failure poses risks to the public and District property.

- Each time a soil failure occurs and obstructs or damages Project 184 canal system, water conveyance is impeded or interrupted, putting health and essential public services at risk by eliminating a substantial source of consumptive water supply and power generation, which are essential public services that support public life, health and property.
- The risk of damage to the District facilities threatens to cause the loss or impairment of public property.
- District staff's lives and health are put at risk by the unstable conditions.
- The dirt and debris created by the failures pose a risk to health and property as it has significant potential to cause sediment releases and consequent environmental damage to the South Fork of the American River.
- If the soil collapse and soil failures are not stabilized, there is substantial risk that further failures will occur this winter season.

The declaration of an emergency will allow staff to complete temporary repairs, and hire the engineers and contractors for stabilization and remediation efforts.

Estimated Expenditures

The estimated expenses are unknown at this time. The Flume 10 failure alone could be well over \$2 million. Each contract exceeding the General Manager's authority will be brought to the Board for ratification and updates will be provided at each Board meeting.

Project Funding

Project numbers will be established for tracking expenses and reimbursement sought through the District's insurance policies.

Environmental Review

Public Resources Code section 21080(b) and CEQA Guidelines section 15269(b) and (c) exempt emergency projects of this nature from the requirements of CEQA. Upon Board adoption of the resolution, staff will file a Notice of Exemption from CEQA with the El Dorado County Clerk-Recorder's Office.

Board Decisions/Options:

Option 1: Adopt a resolution declaring an emergency under Public Contract Code sections 11102 and 22050(a)(1) and Public Resources Code section 21080 as a result of recent and ongoing storm activities; ratify the General Manager's award of a construction contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$64,000 and authorize total funding in the amount of \$248,800 for the emergency repair and replacement of a failed section of the Town Center force main; Project No. 17002.01; ratify the General Manager's award of a pumping and hauling contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$135,000 for the emergency pumping of raw sewage from the El Dorado Lift Station; ratify the General Manager's award of a pumping and hauling contract to Advance Septic in the not-to-exceed amount of \$94,437.50 for the emergency pumping of raw sewage from the Camino Heights Wastewater Treatment Plant; delegate, authorize, and direct the District General Manager and his designees to take all further actions reasonably deemed necessary to respond to the emergency declared herein.

Option 2: Take other action as directed by the Board.

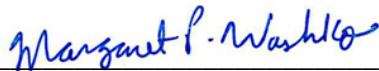
Option 3: Take no action (*four-fifths vote required*)

Staff/General Manager's Recommendation

Option 1

Support Documents Attached

Attachment A: Proposed Resolution



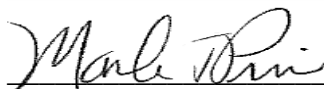
Margaret P. Washko, P.E.
Operations Director



Dan Corcoran
Environmental Division Manager



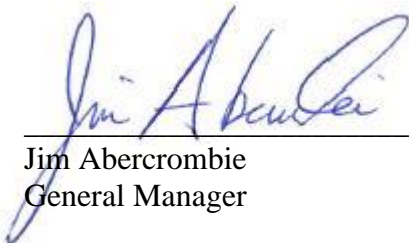
Brian Mueller, P.E.
Engineering Director



Mark Price
Finance Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

**RESOLUTION OF THE BOARD OF DIRECTORS OF
EL DORADO IRRIGATION DISTRICT
DECLARING AN EMERGENCY**

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WHEREAS, El Dorado County has received intense rainfall in recent weeks, saturating soils and causing collapses, soil failures, and earth movement all around the County; and

WHEREAS, two significant collapses of soil have occurred on the District’s El Dorado Canal and one potentially significant area with multiple failures has occurred on District property off of 8-mile Road in Pollock Pines; and

WHEREAS, such storm activity has overwhelmed the District’s wastewater collections facilities at the El Dorado Lift Station and the Camino Heights Wastewater Treatment Plant increasing the risk of sanitary sewer overflows; and

WHEREAS, the District has encountered a break of a sanitary sewer collection main pipeline, the Town Center force main; and

WHEREAS, as a result of continuously developing conditions, there exists real and reasonable potential for the District to discover and/or experience additional damage to critical infrastructure necessitating immediate repair; and

WHEREAS, all of these occurrences require prompt action to prevent or mitigate impairment to life, health, safety, property, and/or essential public services; and

WHEREAS, Government Code section 54956.5(a)(1) defines “emergency” as “a work stoppage, crippling activity, or other activity that severely impairs public health, safety, or both, as determined by a majority of the members of the legislative body;” and

WHEREAS, Government Code section 54956.5(a)(2) defines “dire emergency” as “a crippling disaster, mass destruction, terrorist act, or threatened terrorist activity that poses peril so immediate and significant that requiring a legislative body to provide one-hour notice before holding an emergency meeting may endanger the public health, safety, or both, as determined by a majority of the members of the legislative body;” and

WHEREAS, Public Contract Code section 1102 defines “emergency” as “a sudden, unexpected occurrence that poses a clear and imminent danger, requiring immediate action to prevent or mitigate the loss or impairment of life, health, property, or essential public services;” and

WHEREAS, CEQA Guidelines section 15359 defines “emergency” as “a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate

1 loss of, or damage to life, health, property, or essential public services;” and

2 WHEREAS, Government Code section 54956.5(b)(1) and (2) authorize legislative bodies to hold
3 emergency meetings in the case of an emergency or dire emergency involving matters upon which
4 prompt action is necessary due to the disruption or threatened disruption of public facilities; and

5 WHEREAS, District Board Policy 2050 authorizes the District’s General Manager to act “in
6 emergency situations where no Board Policies or Administrative Regulations exist;” and

7 WHEREAS, Public Contract Code sections 22050(a)(1) and 20567 authorize irrigation districts
8 to let contracts without notice for bids in case of an emergency; and

9 WHEREAS, Public Contract Code section 22050(b)(1) authorizes the Board of Directors, by a
10 four-fifths (4/5ths) vote, to delegate to the General Manager the authority to order any action pursuant
11 to paragraph (1) of subdivision (a); and

12 WHEREAS, District Board Policy 3060, delegates to the General Manager authority to approve
13 any and all contracts necessary to abate an emergency after first informing the President of the Board
14 of Directors and scheduling an emergency meeting of the Board of Directors at the earliest possible
15 opportunity; and

16 WHEREAS, Public Resources Code section 21080(b)(2) exempts from the California
17 Environmental Quality Act (CEQA) emergency repairs to public service facilities necessary to
18 maintain services; and

19 WHEREAS, Public Resources Code section 21080(b)(4) and CEQA Guidelines section 15269(c)
20 exempt from CEQA specific actions necessary to prevent or mitigate an emergency from CEQA;

21 NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED by the Board of Directors of the
22 El Dorado Irrigation District (Board) as follows:

- 23 1. The Board finds and declares that an emergency situation exists within the meaning of the
24 enactments listed below:

25 Public Contract Code section 11102

26 CEQA Guidelines section 15359

27 Public Contract Code section 20567

District Board Policy 3060

Public Contract Code section 22050(a)(1)

Public Resources Code section 21080(b)(2)

Public Resources Code section 21080(b)(4) and CEQA Guidelines section 15269(c)

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2. The foregoing findings and declarations are based upon written, oral, and visual evidence, including both facts and professional opinions, presented to the Board at the hearing of this Resolution and upon the Minutes of the meeting at which this Resolution was adopted.
3. The Board hereby ratifies all actions taken by the District General Manager and his designees, prior to the adoption of this Resolution, which the General Manager and his designees reasonably deemed necessary to respond to the emergency declared herein.
4. The Board hereby delegates, authorizes, and directs the District General Manager and his designees to take all further actions reasonably deemed necessary to respond to the emergency declared herein. The General Manager or his designees shall report to and seek ratification of the Board of Directors for each action taken in excess of their normal authority, at the first regular Board of Directors meeting held after each such action.
5. This Resolution shall take effect immediately upon adoption. Subject to the ratification required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2), and by Board Policy 3060, this Resolution shall remain in full force an effect until rescinded by a subsequent Resolution of the Board of Directors.

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1 The foregoing Resolution was introduced at a special meeting of the Board of Directors of the
2 EL DORADO IRRIGATION DISTRICT, held on the 13th day of February 2017, by Director who
3 moved its adoption. The motion was seconded by Director and a poll vote taken which stood as
4 follows:

5 AYES:

6 NOES:

7 ABSENT:

8 ABSTAIN:

9 The motion having a majority of votes "Aye", the resolution was declared to have been
10 adopted, and it was so ordered.

11 _____
George W. Osborne, President
Board of Directors
EL DORADO IRRIGATION DISTRICT

12 ATTEST:

13 _____
14 Jennifer Sullivan
15 Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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17 (SEAL)

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I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a special meeting of the Board of Directors held on the 13th day of February 2017.

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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**Consideration to Declare an
Emergency
Ratification of various contracts
Delegate, Authorize and Direct the
General Manager to take all
actions to respond to the
Emergency**

February 13, 2017
Margaret P. Washko, P.E.
Director of Operations



Overview

- Policies / Regulations
- Towne Center Force Main Failure
- El Dorado Lift Station Pumping
- Camino Heights Facility Pumping
- Soil Collapses and Failures
 - Hydro
 - Water
- Board Options

Board Policies /Administrative Regulations

BP 3060: “Except during emergencies, the Board of Directors shall approve all contracts or procurements with values greater than \$50,000, and construction contract change orders with values greater than \$100,000. In the event of an emergency requiring immediate contract or procurement action, the General Manager is hereby authorized to approve any and all contracts necessary to abate the emergency after first informing the President of the Board of Directors and scheduling an emergency meeting of the Board of Directors at the earliest possible opportunity. The General Manager shall bring any and all contracts or procurements with values exceeding the levels set forth above, but approved during an emergency, to the Board of Directors for ratification at the first meeting of the Board immediately following the emergency.”

Public Contract Code section 11102: An emergency is a sudden, unexpected occurrence that poses a clear and imminent danger, requiring immediate action to prevent or mitigate the loss or impairment of life, health, property, or essential public services.

TCFM - Previous Board Action

- June 13, 2016
 - Professional services contract
 - Domenichelli TCFM replacement design



▪ Unraveling AC

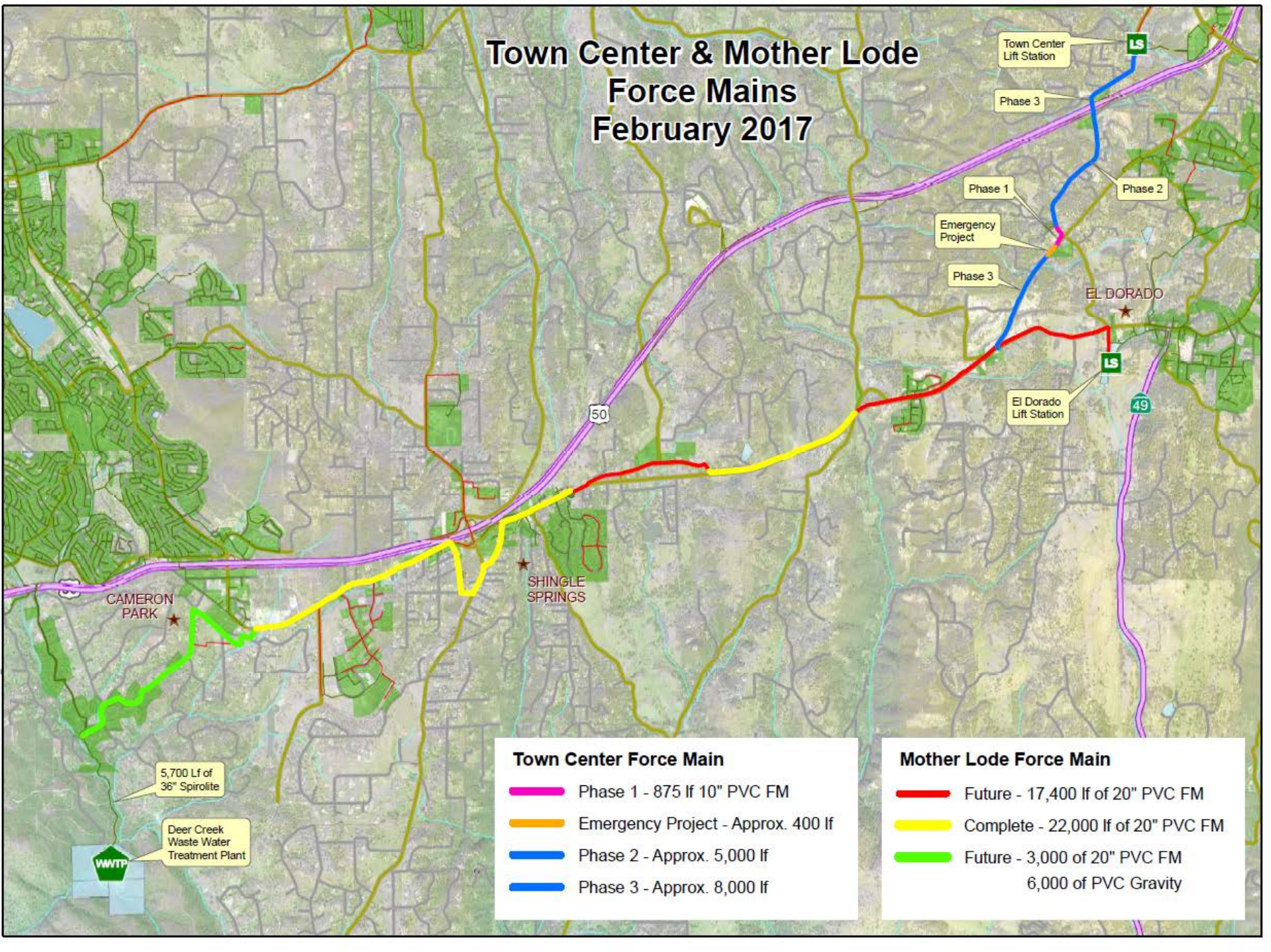


▪ Longitudinal crack

TCFM Background

- **Existing pipe**
 - 12,885-feet of 8-inch AC installed in 1980
 - 825-feet of 10-inch PVC installed in 2014
- **Major connections**
 - Safeway and K-Mart shopping centers
 - Indian Creek Elementary School
 - El Dorado County Office of Education
 - Folsom Lake Community College
(El Dorado Center)

Town Center & Mother Lode Force Mains February 2017



Town Center Force Main

- Phase 1 - 875 lf of 10" PVC FM
- Emergency Project - Approx. 400 lf
- Phase 2 - Approx. 5,000 lf
- Phase 3 - Approx. 8,000 lf

Mother Lode Force Main

- Future - 17,400 lf of 20" PVC FM
- Complete - 22,000 lf of 20" PVC FM
- Future - 3,000 of 20" PVC FM
6,000 of PVC Gravity

5,700 lf of 36" Spirolite

Deer Creek
Waste Water
Treatment Plant

Town Center
Lift Station

Phase 3

Phase 1

Emergency
Project

Phase 3

Phase 2

EL DORADO

El Dorado
Lift Station

50

49

CAMERON
PARK

SHINGLE
SPRINGS

WWTP

TCFM Current Status

- Pipeline returned to operations 2/11/17
 - Septage haulers
 - Wet well
 - Five other private services
- Replace approximately 400 linear feet
 - \$64,000 contract to Doug Veerkamp

Pipeline replacement



Funding

Task	Supplier	Fee
Pipe replacement of approximately 400 feet	Doug Veerkamp General Engineering, Inc.	\$64,000
Lift Station and five private pump station bypass pumping	Three Septage Hauling Contractors	\$72,000
Paving	Doug Veerkamp General Engineering Inc. on call paving contract	\$40,000
Capitalized labor (for pumping, engineering, inspection, etc.)	EID	\$30,000
Contingency	Doug Veerkamp General Engineering, Inc. and Others	\$42,800
Estimated Total		\$248,800

Funding from wastewater rates 100%

Environmental Review

- Public Resources Code section 21080(b) and CEQA Guidelines section 15269(b) and (c) exempt emergency projects of this nature from the requirements of CEQA. Upon Board adoption of the resolution, staff will file a Notice of Exemption from CEQA with the El Dorado County Clerk-Recorder's Office.

El Dorado Lift Station

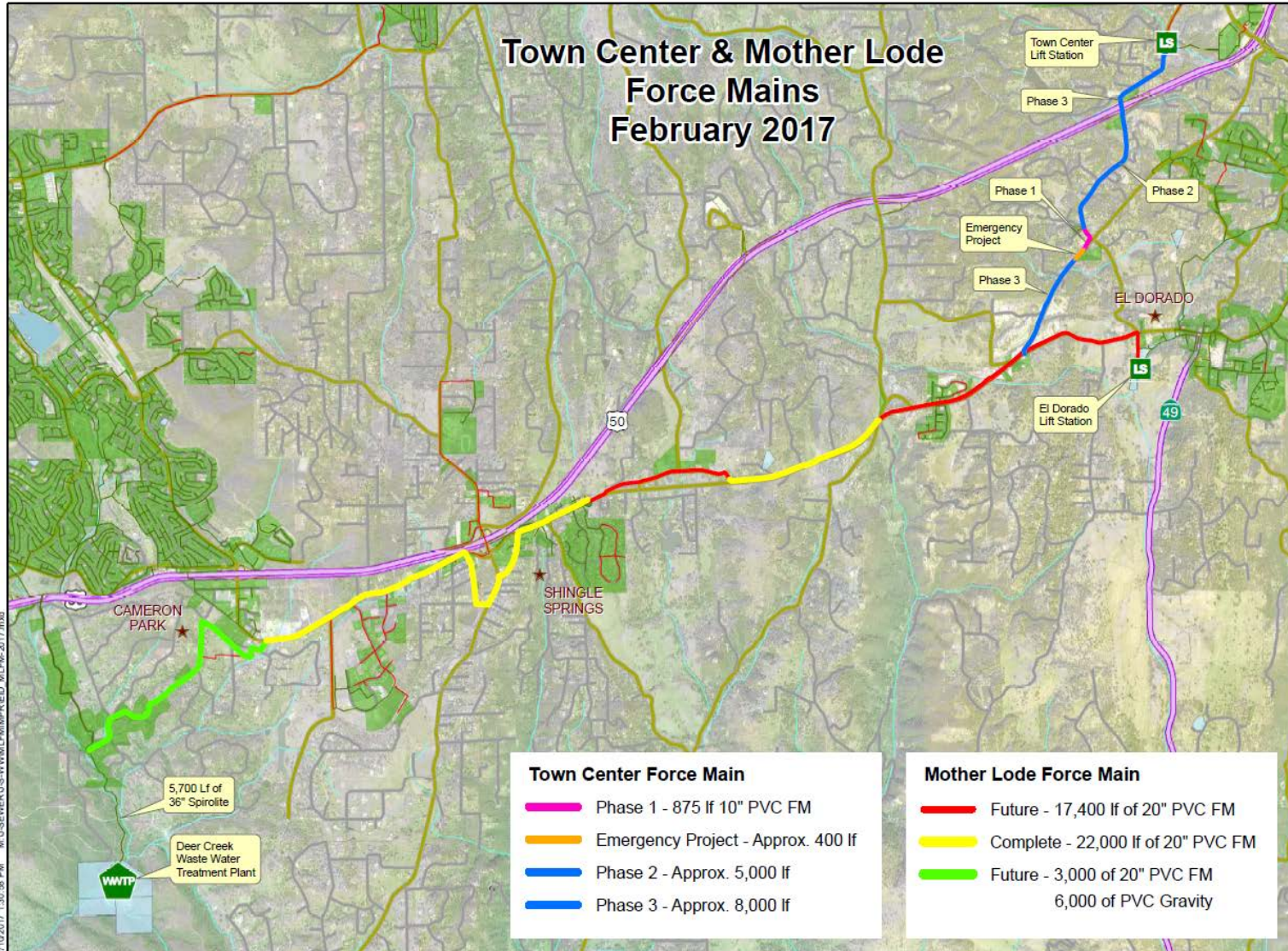


El Dorado Lift Station



El Dorado lift station pond used to attenuate peak flows

EDLS Pumping and Hauling



EDLS Stats and Funding

- Pumped Raw WW
 - 54 hours
 - 8 trucks, 2 pumps
 - 1 MG



Truck filling station from pond at EDLS

Task	Supplier	Fee
Pump and Truck approximately 954,000 gallons of raw wastewater from the El Dorado Lift Station to the plants	Doug Veerkamp General Engineering, Inc.	\$135,000

Funding from Operating budget 100%

Camino Heights Pumping and Hauling

- Population 315
- Pumping raw WW
 - 1.1 MG
 - End of February
- Sprayed field capacity utilized
- Overland flow and tail water return



Camino Heights open pond treatment system

Camino Heights Estimated Expenditures

Task	Supplier	Fee
Pump and Truck approximately 357,200 through February 9 and are anticipated to manage an additional 352,800 through February 28 gallons of raw wastewater from Camino Heights Facility to Deer Creek or El Dorado Hills WWTP	Advanced Septic Services for pumping through February 9, 2017 and anticipated pumping through February 28, 2017	\$94,437.50
Pump and Truck approximately 338,400 gallons of raw wastewater from Camino Heights Facility to Deer Creek or El Dorado Hills WWTP	Sweet Septic Inc. through February 9, 2017	\$29,225
Pump and Truck approximately 7,200 gallons of raw wastewater from Camino Heights Facility to Deer Creek or El Dorado Hills WWTP	Sierra Site Services	\$675
Estimated Total		\$124,450

Funding from Operating budget 100%

Soil Collapses and Failures

- Hydro

- From January 6, 2017 – February 11, 2017

- 21 distinct soil collapses, failures and slides

- 14 within the canal system

- 3 Power House road

- 2 Crawford ditch

- 1 North Fork Ditch

- 1 Middle Main Ditch

- Water

- Moose Hall Main



Flume 2A crews cabled loose boulders on 1/6/17

Hydro Soil Collapse and Failures



Flume 2A mud rock and
tree removal 2/10/17



Flume 6 slide above canal
2/8/17



Flume 7 slide below
canal 2/8/17

Hydro Soil Collapse and Failures continued



30 mile tract (west of silver fork) mud rock and
tree (2/10/2017)

Hydro Soil Collapse and Failures continued

- Crawford Ditch
 - Mud slide and loss of canal bench 2/10/17
 - Sink hole 2/2/17



Flume 9 failure above canal 2/8/17

Hydro Soil Collapse and Failures continued

- North Fork Ditch intake facility
 - Washed out structure
 - Including head wall
 - Near Consumnes River



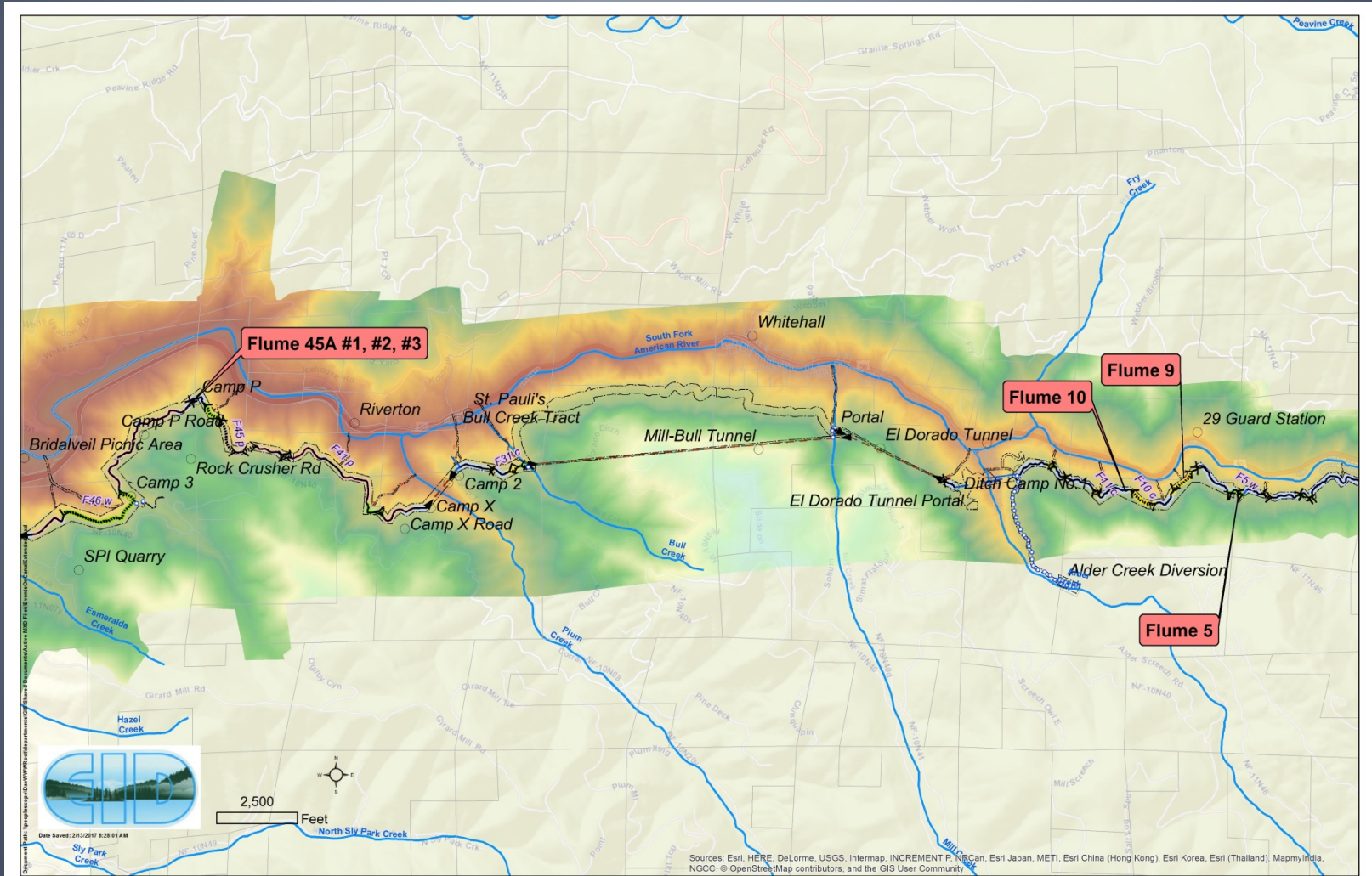
Hydro Soil Collapse and Failures continued

- Middle Main Ditch Breach 2/9/2017



- Flume 8 rock above canal monitoring 2/7/17

Major Hydro Soil Collapses and failures



Major Hydro Soil Collapses and failures

- Flume 5 (2/8/2017)
 - Active soil movement
 - Impacted hand railing so far
 - Engineering
 - Water management
 - Horizontal drains
 - Remove existing flume structure
 - Move soil collapse
 - Reinstall flume



Soil cracking above canal flume 5



Soil impacting railing so far. Active movement anticipated until water pressure managed.

Major Hydro Soil Collapses and failures

- Flume 9 (2/8/2017)
 - Active soil movement beneath previously placed mesh
 - Engineering evaluation



Previously installed mesh system
soil movement beneath mesh



Crews remove debris and trees

Major Hydro Soil Collapses and failures

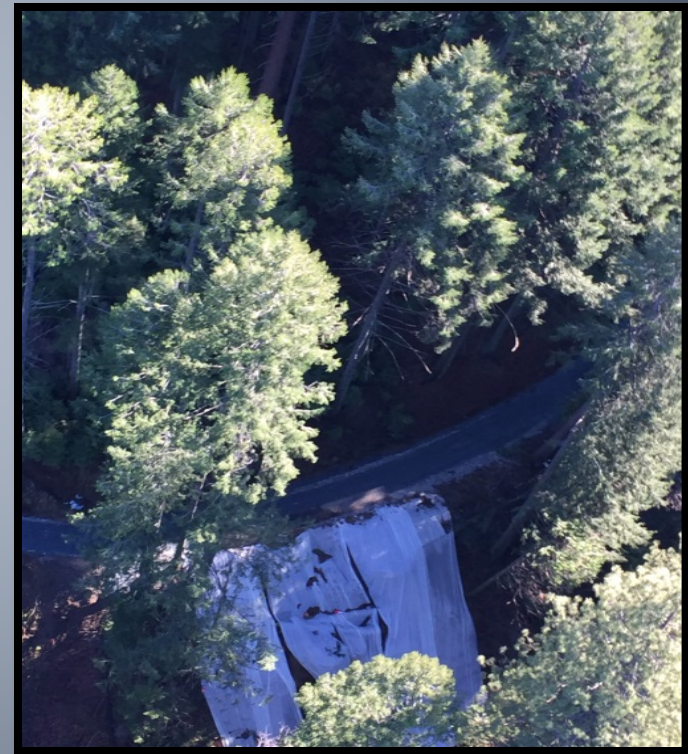
- Canal Section below Flume 10 (2/7/17)
 - Material blocked canal
 - Caused water to overtop
 - 160' of bench collapsed
 - 60' of flume broken
 - Engineered solution
 - Dewater hillside
 - New flume section
 - New bench
 - Very significant \$ and time



Canal section below Flume 10

Major Hydro Soil Collapses and failures

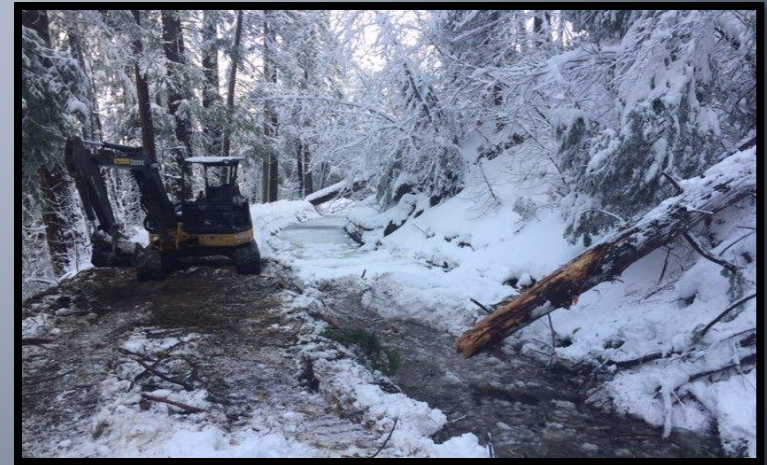
- Canal Section below Flume 45A #1 1/13/17
 - Material blocked canal
 - Breach onto bench
 - Canal OK
 - Engineered solution
 - Stabilization of bench



Crews placed plastic to keep water off impacted bench area

Major Hydro Soil Collapses and failures

- Canal Section below Flume 45A #2 1/21/17
 - Cedar tree fell and obstructed canal
 - Caused bench to become unstable
 - Engineered solution
 - Stabilization of bench



Crews removed tree blocking water

Major Hydro Soil Collapses and failures

- Canal Section below Flume 45A #3 2/10/17
- Debris obstructed canal
- Bench may be impacted
- Engineering
 - Stabilization



Crews creating a relief point for water blocked by material in canal

Major Hydro Soil Collapses and failures

- Power House Road
 - Three collapses (2/1/17, 2/10/17, 2/11/17)



#1 Crew removed tree from roadway requires stabilization



#2 Tree fell and took part of Roadway. Contractor hired.



#2 Tree tumbled Down to switch-back roadway



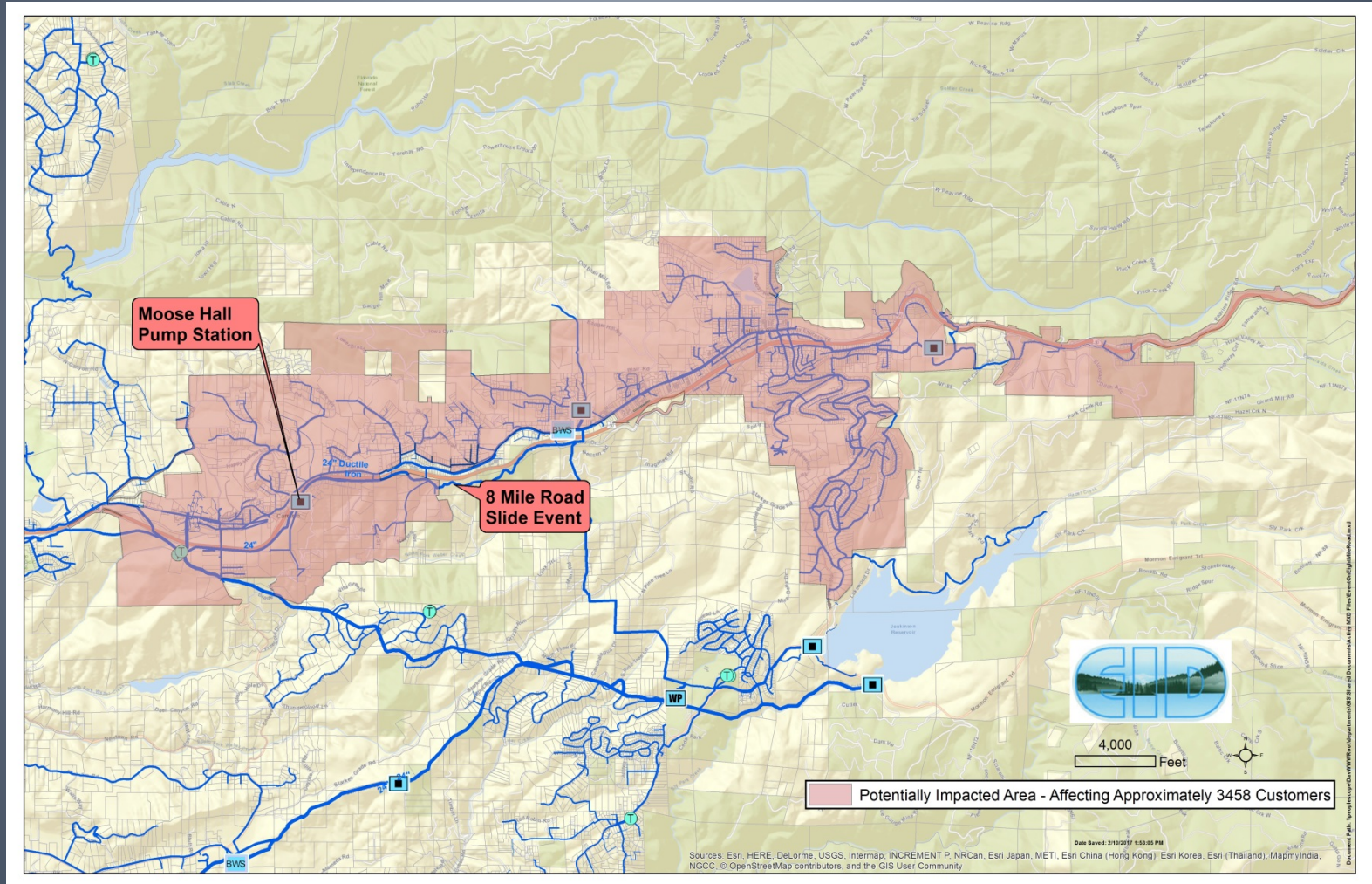
#3 Tree and debris into roadway

Water soil collapses and failures

- North Canyon pump station
 - Erosion concerns
 - Supply line to Swansboro



Major Water Soil Collapse and Failure



Major Water Soil Collapse and Failure

- Moose Hall transmission line
 - Easement stability and slides
 - Engineering



Transmission main is in the benched area



Water from Highway 50



Board Decisions/Options

- **Option 1:** Adopt a resolution declaring an emergency under Public Contract Code sections 11102 and 22050(a)(1) and Public Resources Code section 21080 as a result of recent and ongoing storm activities; ratify the General Manager's award of a construction contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$64,000 and authorize total funding of \$248,800 for the emergency repair and replacement of a failed section of the Town Center force main; Project No. 17002.01; ratify the General Manager's award of a pumping and hauling contract to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$135,000 for the emergency pumping of raw sewage from the El Dorado Lift Station; ratify the General Manager's award of a pumping and hauling contract to Advance Septic in the not-to-exceed amount of 94,437.50 for the emergency pumping of raw sewage from the Camino Heights Wastewater Treatment Plant; delegate, authorize, and direct the District General Manager and his designees to take all further actions reasonably deemed necessary to respond to the emergency declared herein.
- **Option 2:** Take other action as directed by the Board
- **Option 3:** Take no action

Staff and General Manager Recommendation

- Option 1

Questions