



# CITY OF MORRO BAY PUBLIC WORKS ADVISORY BOARD AGENDA

*The City of Morro Bay provides essential public services and infrastructure to maintain a safe, clean and healthy place for residents and visitors to live, work and play.*

## REGULAR MEETING Wednesday, February 17, 2021 – 5:30 PM Held Via Teleconference

ESTABLISH QUORUM AND CALL TO ORDER  
MOMENT OF SILENCE  
PLEDGE OF ALLEGIANCE  
ELECTION OF CHAIR AND VICE CHAIR  
BOARD MEMBERS ANNOUNCEMENTS AND PRESENTATIONS  
STAFF RECOGNITION

### PUBLIC COMMENT

*Pursuant to Section 3 of Executive Order N-29-20, issued by Governor Newsom on March 17, 2020, this Meeting will be conducted telephonically through Zoom and broadcast live on Cable Channel 20 and streamed on the City website (click [here](#) to view). Please be advised that pursuant to the Executive Order, and to ensure the health and safety of the public by limiting human contact that could spread the COVID-19 virus, the Veterans' Hall will not be open for the meeting.*

### Public Participation:

*In order to prevent and mitigate the effects of the COVID-19 pandemic, and limit potential spread within the City of Morro Bay, in accordance with Executive Order N-29-20, the City will not make available a physical location from which members of the public may observe the meeting and offer public comment. Remote public participation is allowed in the following ways:*

- *Community members are encouraged to submit agenda correspondence in advance of the meeting via email to the Public Works' office at [PWAB@morrobayca.gov](mailto:PWAB@morrobayca.gov) prior to the meeting and will be published on the City website with a final update one hour prior to the meeting start time. Agenda correspondence received less than an hour before the meeting start time may not be posted until after the meeting.*
- *Members of the public may watch the meeting either on cable Channel 20 or as streamed on the City [website](#).*
- *Alternatively, members of the public may watch the meeting and speak on a specific agenda item by logging in to the Zoom webinar at the **beginning** of the meeting using the information provided below. Please use the **"raise hand"** feature to indicate your desire to provide public comment. Each speaker will be allowed three minutes to provide input.*

*Please click the link below to join the webinar:*

- <https://us02web.zoom.us/j/82722747698?pwd=aWZpTzcwTHlRTk9xaTlmWVNWRWFUQT09> Password: 135692
- *Or Telephone Attendee: 1 (408) 638-0968 or 1 (669) 900 6833 or 1 (346) 248 7799; Webinar ID: 827 2274 7698; Password: 135692; Press \* 9 to "Raise Hand" for Public Comment*

A. CONSENT AGENDA

A-1 APPROVAL OF MINUTES FOR THE JANUARY 20, 2021 PUBLIC WORKS ADVISORY BOARD SPECIAL MEETING

**Recommendation:** Approve as submitted.

B. BUSINESS ITEMS

B-1 DIRECTOR'S REPORT - SUMMARY OF CURRENT PUBLIC WORKS ACTIVITIES

**Recommendation:** Information item, no action needed.

B-2 REVIEW OF POTENTIAL CHANGE ORDERS (PCO) FOR THE WATER RECLAMATION FACILITY

**Recommendation:** Staff recommends the Board provide input regarding the potential change orders for the Water Reclamation Facility (WRF).

C. BOARDMEMBERS CONCERNS AND INTEREST

D. FUTURE AGENDA ITEMS

E. ADJOURNMENT

The next Regular Meeting will be held on Wednesday, March 17, 2021 at 5:30 p.m. via teleconference.

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This agenda is subject to amendment up to 24 hours prior to the date and time set for the meeting. Please refer to the agenda posted at the Public Works Department, 955 Shasta Avenue, for any revisions or call the department at 772-6263 for further information.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Public Works Department at (805) 772-6263 at least 24 hours prior to the meeting to ensure reasonable arrangements can be made to provide accessibility to this meeting.

*The Public Works Advisory Board conducted this meeting in accordance with Section 3 of California Governor Newsom’s Executive Order N-29-20 issued on March 17, 2020 in response to the present State of Emergency in existence due to the threat of COVID-19. This meeting was held via teleconference for all participants.*

- |          |  |   |
|----------|--|---|
| PRESENT: | Ric Deschler<br>Janith Goldman<br>Torrey Byles<br>John Erwin<br>Doug Rogers                      | Chair<br>Vice Chair<br>Board Member<br>Board Member<br>Board Member   |
| ABSENT:  | Chris Erlendson  | Board Member  |
| STAFF:   | Scott Collins<br>Joe Mueller<br>Rob Livick<br>Janeen Burlingame<br>Damaris Hanson<br>Matt Bishop | City Manager/Acting Public Works Director<br>Utilities Division Manager<br>City Engineer<br>Management Analyst<br>Environmental Program Manager<br>Consolidated Maintenance Lead Supervisor |

**ESTABLISH QUORUM, CALL TO ORDER**

The meeting was called to order at 5:30 P.M. with all Board members in attendance.

**BOARDMEMBERS ANNOUNCEMENTS**

<https://youtu.be/2YSLOvO3DnQ?t=50>

Chair Ric Deschler stated there are 3 vacant positions available on the PWAB and if anyone is interested in applying to contact City Hall for information on the process to be appointed.

John Erwin noted when viewing the Citizens Finance Advisory Committee agenda that the Fire Department was requesting several positions be funded from Measure Q at the probable expense of the pavement management program funding.

**PUBLIC COMMENT**

<https://youtu.be/2YSLOvO3DnQ?t=190>

The public comment period was opened.

Robert Davis, Council member, expressed thanks to Joe Mueller for staying with the City to progress work on the WRF project while performing two jobs at two locations. He noted Council appointed him to be the liaison to PWAB, stating he would not be participating in the meetings, but watching and reporting back any noteworthy events to the Council. He also thanked the Board members for serving on PWAB, noting their recommendations to Council are valued and taken very seriously.

The public comment period was closed.

**CONSENT AGENDA**

A-1 APPROVAL OF MINUTES FOR THE NOVEMBER 20, 2020 PUBLIC WORKS ADVISORY BOARD REGULAR MEETING

<https://youtu.be/2YSLOvO3DnQ?t=495>

MOTION: John Erwin moved to approve A-1. The motion was seconded by Janith Goldman and carried 5-0-0 unanimously.

BUSINESS ITEMS

B-1 DIRECTOR'S REPORT

<https://youtu.be/4iRjvPPuFRo?t=269>

Joe Mueller, Matt Bishop, Rob Livick, Damaris Hanson, Janeen Burlingame, and Scott Collins presented the Director's Report.

Discussion, comments and questions amongst Board members and staff.

C ADJOURNMENT

The meeting adjourned at 7:10 P.M.

Recorded by:

Janeen Burlingame  
Management Analyst



AGENDA NO: B-1

MEETING DATE: February 17, 2021

## MEMORANDUM

**TO:** Public Works Advisory Board  
**CC:** City Manager  
**DATE:** February 11, 2021  
**FROM:** Scott Collins – Interim Public Works Director

**SUBJECT: Director’s Report / Information Items**

Please contact the individual staff members prior to the meeting for more detailed information.

**Notify Me:** Sign up for Notify Me on the City’s Website [www.morrobayca.gov/notifyme](http://www.morrobayca.gov/notifyme) to be notified by email when Council, Board’s and Commission’s agendas and minutes are posted on the website.

**Service Requests:** Citizens can report a concern to the City for predetermined issues without the need to phone the City during business hours (for example: reporting a pothole) by using a feature on the City’s website, Service Requests [www.morrobayca.gov/905/Service-Requests](http://www.morrobayca.gov/905/Service-Requests), or the mobile App (available on both Android and IOS operating systems).

Staff can also add Service Requests for someone over the phone or in the office if they do not have access to a computer. Each category in Service Requests is assigned to the appropriate staff member to handle so citizens don’t have to figure out what department to contact for an issue they need to report on.

# CONSOLIDATED MAINTENANCE

Staff Contact: Matt Bishop

## Streets/Miscellaneous

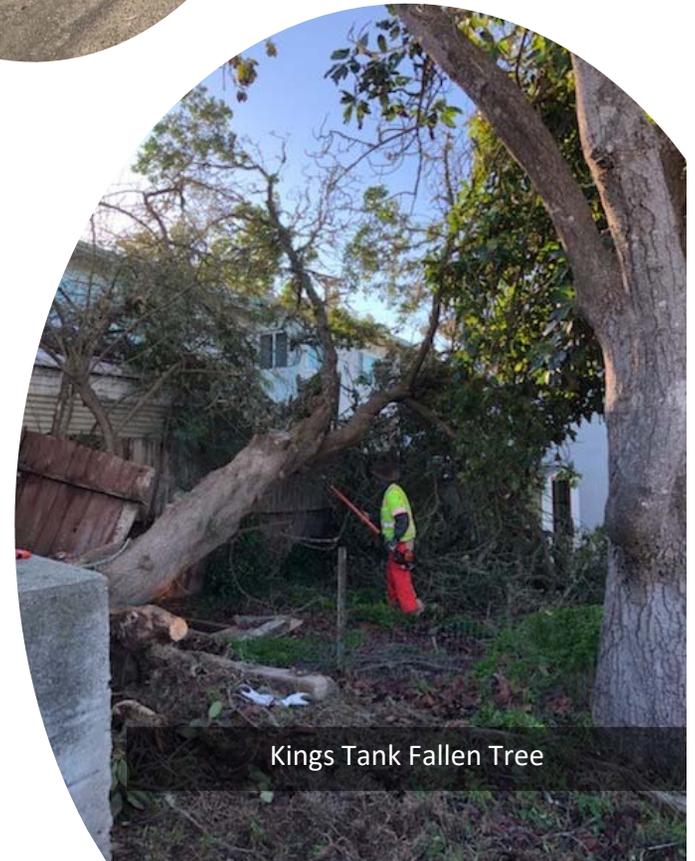
- Filled several potholes around town with Cold Mix Asphalt.
- Tractor removed sand and dirt from several streets, walkways, ROW's, and bike paths around town caused from storm.
- USA marked for utilities and dug out 2 storm drain outfalls off the 1500 blk. of Quintana.
- Replaced stop sign at Main St./Acacia, Re-painted red curb at Main St./Beach.
- Placed traffic control devices on SB Blvd. and Quintana Rd. during storm for traffic safety.
- Blew off several bike and walking paths around town to clear debris after storm.
- Removed graffiti in several locations around town.

## Trees/Vegetation

- Trim and lifted canopies on several trees around town out of the ROW's and for hazard reduction.
- Cut and haul and/or pick up several fallen tree limbs around town. Clean all areas.
- Contracted hazard reduction tree trimming in City right of ways on several trees around town.
- Cut and haul fallen tree next to the Kings St. City water storage tank, 2 rotten hazardous trees at the 600 blk. of Morro Ave., fallen tree at Bayshore Bluffs Park, fallen tree at the 400 blk. of Harbor, fallen dead tree on bike trail behind high school.
- Cut back several overgrown shrubs, bushes, and other landscape around town.



Bayshore Bluffs Fallen Tree



Kings Tank Fallen Tree

# CONSOLIDATED MAINTENANCE

Staff Contact: Matt Bishop

## Facilities

### **MBFD**

- Repaired broken 2" lateral waterline from water meter to fire station.

### **Bonita Fire Station**

- Repaired leaning fence in backyard by installing 3 fence stabilizers.

### **City Hall**

- Unclogged roof drains and assessed leaking areas. Notified contractor to repair warranty work.
- Removed leaking plumbing fittings under sink in rear community room, replaced fittings, snaked waste tube, and re-assembled.

### **781 Market St. Rental**

- Installed fireplace vent cover and applied roofing sealant to leaking areas.

### **Corp Yard**

- Machine threaded and installed 60' of gas line along backside of main bldg., connected to existing.
- Repaired leaking roof with corrugated metal patches along with roof patch material.

## Parks

### **Lila Keiser**

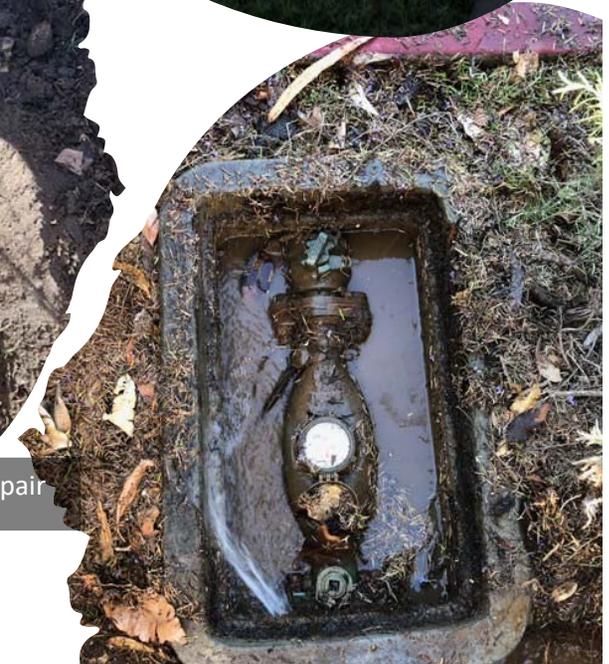
- Tractor lifted damaged parking lot light pole foundation, repaired electrical, and reset in position.
- Re-seeded rough grass area in the West ballfield and installed orange fencing for protection.



Bonita Fire Station Fence Repair



After: Fire Station Water Line Repair



Before: Fire Station Water Line Repair

## MORRO BAY TROLLEY~ ESSENTIAL TRAVEL TIPS

Do your part to create a healthier travel environment  
and help stop the spread of COVID-19



**Keep your distance.**  
Stagger seating & spread  
out as much as possible.



**Wear face mask.**  
Cover mouth, nose,  
and chin.



**Don't touch surfaces.**  
(handrails, seat backs, etc.)

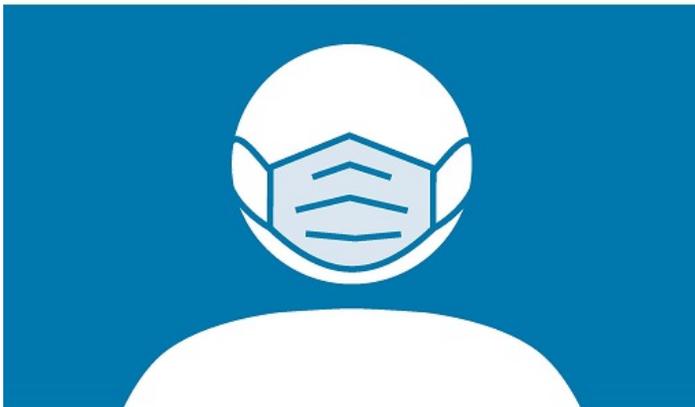


**Wash hands before &  
after riding the trolley.**  
20 seconds with soap  
& water or use hand  
sanitizer if you have  
no access to water.



**Use a tissue if you need  
to touch surfaces.**  
(handrails, seat backs, etc.)

## Face masks required.



TSA requires proper wearing of face masks,  
per federal law. Face masks are to be worn  
at all times. Failure to comply will result  
in denial of boarding or removal, and  
may result in penalties.



Stay Healthy. Stay Secure.  
[tsa.gov/coronavirus](https://tsa.gov/coronavirus)

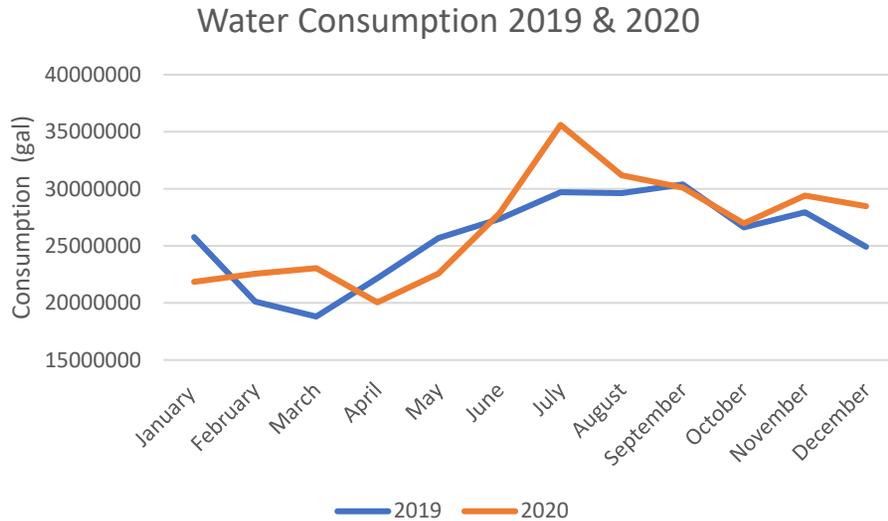
## TRANSIT AND TROLLEY

Staff Contact: Janeen Burlingame

- At its January 26, 2021 meeting, Council adopted Resolution No. 04-21 and 05-21 authorizing the submission of applications to SLOCOG for the FY21/22 Cycle Rural Transit Fund grant and the FY 21/22 Cycle State of Good Repair grant. Grant applications were prepared and submitted to SLOCOG by the deadline.
- On January 21, 2021, the President issued an [Executive Order](#) promoting measures to prevent the spread of COVID-19 and requiring masks be worn in airports, on commercial aircraft, and in various modes of surface transportation (which includes public transit).
- On January 29, 2021, the [Center for Disease Control \(CDC\) issued an order](#) requiring masks be worn on buses and at transportation hubs and includes some exemptions that are outlined in the order.
- On January 31, 2021, the Transportation Security Administration issued a [Security Directive](#) to implement the President's Executive Order to prevent the spread of COVID-19 and support the enforcement of the CDC mask order.
- City and MV staff have reviewed the Executive Order, CDC order, and TSA Security Directive and adjusted service requirements as needed. Morro Bay Transit has been following much of what the orders and Security Directive outline so only some minor modification to existing operations will be necessary (for example, scarves, bandanas, neck gaiters, face shields without a mask, and pulling your shirt over your nose/mouth are not allowed as they were under the State of California order). MBT continues to provide face masks for riders who may need one in order to comply with the face mask requirement to ride.

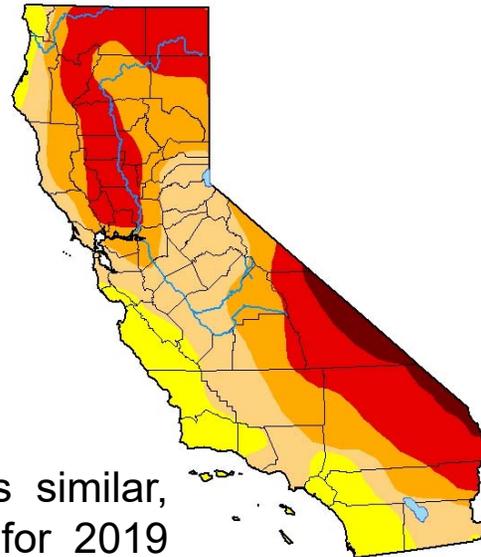
# WATER – CONSERVATION

Staff Contact: Damaris Hanson



Water consumption for 2019 and 2020 was similar, except for July 2020. Water use reduction for 2019 and 2020 was 19% reduction for both 2019 & 2020 when compared to 2013 water usage.

## U.S. Drought Monitor California



**February 2, 2021**  
(Released Thursday, Feb. 4, 2021)  
Valid 7 a.m. EST

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	85.99	58.44	31.65	3.75
<b>Last Week</b> 01-26-2021	0.00	100.00	95.20	75.74	39.46	3.86
<b>3 Months Ago</b> 11-03-2020	15.48	84.52	67.54	35.61	12.74	0.00
<b>Start of Calendar Year</b> 12-29-2020	0.00	100.00	95.17	74.34	33.75	1.19
<b>Start of Water Year</b> 09-29-2020	15.35	84.65	67.65	35.62	12.74	0.00
<b>One Year Ago</b> 02-04-2020	65.72	34.28	0.00	0.00	0.00	0.00

**Intensity:**  
 None (White)      D2 Severe Drought (Dark Orange)  
 D0 Abnormally Dry (Yellow)      D3 Extreme Drought (Red)  
 D1 Moderate Drought (Light Orange)      D4 Exceptional Drought (Dark Red)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

**Author:**  
Brad Rippey  
U.S. Department of Agriculture



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

**Please remember to make water conservation a way of life!**

City water conservation rebates available; Cash for grass, rain barrel, irrigation retrofit, SMART irrigation controller, toilet retrofit and Energy star washing machine. State rebates now available for removing grass, add replacing a toilet that flushed more than 1.6 gallons per flush (\$100).

# WATER – OPERATIONS

Staff Contacts: Joe Mueller

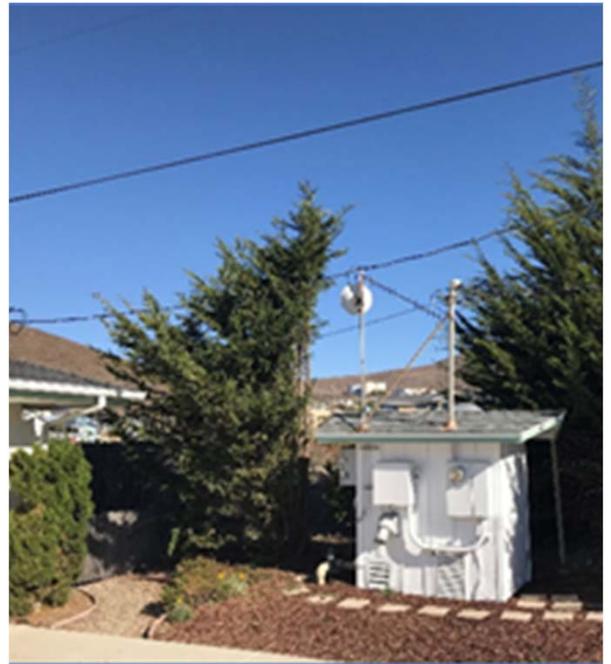
Damaris Hanson

## **Operations and Maintenance January 2021**

- Exercised 35 mainline water valves throughout the city.
- Responded to 2 after-hour callouts, one at 465 Kings Ave for a customer water leak and one at the City's Kings water storage tank for high tank alarm.
- Flushed 14 hydrants for maintenance.
- Investigated and resolved 5 potential water leaks.
- Performed 48 water service turn-offs and 15 water service turn-ons.
- Replaced 11 water meters throughout town.
- Installed 1 new water service line.
- Investigated 16 water distribution issues ranging from meter re-reads, meter high reads, pressure issues, and water quality concerns.
- Vacuumed sediment from meter boxes
- Removed old well pump and motor @ Errol St.
- Repair SCADA communications @ Blanca Booster station.
- Located and updated water distribution assets using ARC-GIS.
- Moved RO Clean-in-Place (CIP) tank indoors.
- Trimmed trees to improve radio communications strength at the Vashon booster station

## **Submitted reports to the State, [electronically](#): No Violations**

- January 2020 Monthly Monitoring Report
- January 2020 Monthly Water Rights Extraction Report
- January 2020 Monthly Water Conservation Report
- Annual BWRO Discharge Outfall Permit





Lift station Site Maintenance



Lift station Site Maintenance



Manhole raising to grade

## WASTEWATER – COLLECTIONS

Staff Contacts: Joe Mueller

Robbie Victor

### Operations and Maintenance January 2021

- Hydro cleaned approximately 16,279 feet of city main line.
- Video inspected (CCTV) 692 feet of gravity main line.
- On-call staff received 3 afterhours callouts;
  - 375 Arbutus customer line slow draining, checked to ensure city main line was clear.
  - Two callouts to Lift Station #3 for pump over temp
- Sampled pH levels at Mission Linen.
- Performed 6 restaurant source control inspections for Fats, Oils and Grease (FOG).
- Performed site maintenance at lift station #1, spread gravel around area inside of fence.
- Raised a manhole lid that was below grade and would fill with dirt and stormwater runoff.

# WASTEWATER – TREATMENT

Staff Contacts: Joe Mueller

John Gunderlock

## Operation & Maintenance January 2021

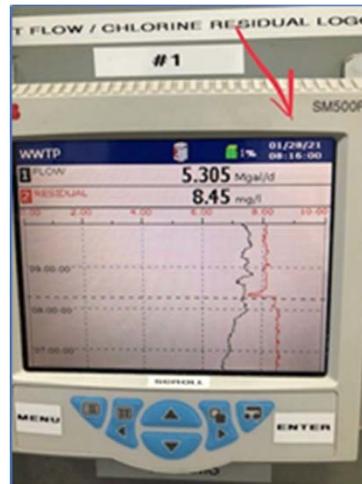
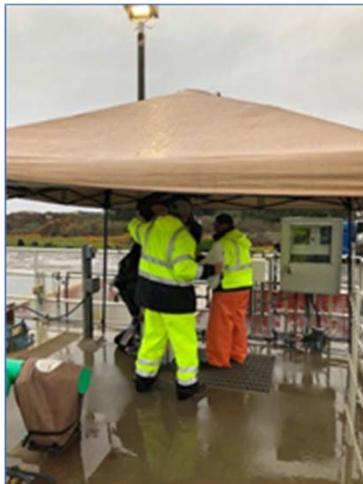
- Flow for the month of January averaged 1.122 Million Gallons per Day (MGD) and totaled 34.770 million gallons.
- 5.6 inches of precipitation was recorded in the month of January.
- Responded to three after hour callout in January for plant chlorine adjustments.
- Exceeded effluent limitation for Effluent Total Suspended Solids instantaneous maximum on December 4, 2020. Staff noted no abnormal plant performance during this time, possible sampling or laboratory testing anomaly.
- Exceeded effluent limitation for Total Coliform Bacteria instantaneous maximum on January 28, 2021. Due to high plant flows of 5.3 MGD at time of sampling, the storm event flows inundated the collections systems of Morro Bay and Caycus reducing disinfection detention time at the plant to less than 30 minutes.
- Switched to backup chlorine residual analyzer #2 due to moisture in keyboard on residual analyzer #1. Replaced chlorine residual analyzer #1 keypad with spare parts due to failure, switched back to analyzer #1 and tested high/low alarms.
- Tested all plant alarms, main-gate, high primary, chlorine residual high/low, power.
- Ran emergency generator for monthly inspections.
- San Luis Powerhouse performed quarterly emergency generator equipment maintenance and inspection.
- Cleared brush and cleaned stormwater outfall at creek.
- Performed maintenance on boiler #1, removed controller and checked tightness of all wire connections. Outs side contractor Boiler Works performed 'pilot flame' troubleshooting and installed new photo eye, amplifier card and gas regulating valve on boiler. Replaced upper hot water circulation motor and bearing assembly.
- Replaced sodium hypochlorite pump tubing and connectors due to a small leak.
- Tested and inspected the Interstage wet well Modulating Sluice Gate.
- Replaced v-belt on the grit de-waterer corkscrew drive-unit.
- In preparation for wet weather installed headworks emergency bypass pump, inspected and tested.
- Staged lay-flat hose, sandbags, drain mats and plugs for storm event.
- Replaced skimmer drive-unit shear-pin on north side of the chlorine contact chamber.
- Trimmed trees and landscaping at the front gate.
- Replaced GFI outlet with waterproof cover and rain deflector at the Sodium Bisulfite containment area sump pump.
- Sodium Hypochlorite supplier replaced 2-inch bulkhead fitting on top of storage tank.
- Replaced failed motor on headworks screening unit #2.

**Utilities Staff attended the following training:**

- In-house briefings to address Covid-19 social distancing and safety precautions.
- High Flow/Flood Response Guidelines for the plant.
- Headworks Main-gate and Blending-valve operation review for weekend operators.

**Submitted reports to the State, [electronically](#):**

- December 2020 Monthly Discharge-Monitoring Report (eDMR)
- December 2020 Monthly Self-Monitoring Report (eSMR)
- Annual 2020 Ocean Outfall/Diffuser Report (eSMR)
- Annual 2020 Biosolids Reports (eSMR, EPA/CDX)
- Fourth Quarter 2020 Receiving Water Report (eSMR)
- Fourth Quarter 2020 Effluent Bacteria Report (eSMR)
- Fourth Quarter 2020 Progress Report (Time Schedule Order)
- PFAS questionnaire and quarterly results to the State Water Resources Control Board (SWRCB) GeoTracker database.



January 28<sup>th</sup>, 2021 High flow storm event and residual analyzer keyboard repair

# ENGINEERING/CAPITAL PROJECTS 1/3

Staff Contact: Rob Livick

## **Highway 41/Main/Highway 1**

- Project construction is still financially constrained
- The City Council authorized submission of an \$3.75M Active Transportation Program (ATP) grant application for the project
- Staff completed and submitted the grant application by the September 15, 2020 deadline
- Contract revision completed with GHD formerly Omni-Means to complete Pre-Design and Environmental Determination on track for Spring 2021
- Working with City's funding partners the San Luis Obispo Council of Governments (SLOCOG) & Caltrans on funding options, perhaps a return of "Earmarks"

## **Pavement Management**

- No major maintenance work in FY 2019/2020.
- Stop gap arterial and collector repairs proposed for late FY2020/2021

## **Water System Improvements – Nutmeg Pressure Zone Fire Flow Improvements**

- Design of various components underway
- Preparation of the environmental document has begun. The document is for compliance with the California Environmental Quality Act (CEQA) and will be heard at the City's Planning commission later this fall.
- This phase of the project will bring the project to 30-percent design, complete the CEQA determination and permitting through the County and City; and property acquisition.

## **Water Tank– Various Locations**

- Repair to City's Water Tanks due to the effects of corrosion of metal components
- Plans are approximately 75% complete
- Project budget is \$2,000,000

## **Collection System Repairs – Beachcomber, Main Street and Atascadero Road Sewer Main R/R**

- Design alternative are being prepared, ie moving sewer mains into the street vs in place replacement in the existing back/side yard easements
- Design to be complete Spring 2021
- Construction proposed for Summer/Fall 2021

# ENGINEERING/CAPITAL PROJECTS 2/3

Staff Contact: Rob Livick

## **Cloisters Landscaping Improvements – Landscape Plan and Installation**

- Median replanting and irrigation rehab work is substantially complete
- Reviewing work for phase 2 – Coral Ave Parkway: Rehab between AC Bike Path and Sidewalk

## **Sequoia Storm Drain Repair/Replacement**

- No change
- Awaiting resource availability to commence project

## **Laurel Easement - Between Juniper and Koa: Storm Drain Repair**

- 1950's vintage CMP storm drain failed and causing erosion threatening up slope structure and exposed sewer main
- Completed preliminary design and cost estimate \$323,000
- Looking to phase project due to availability of funding

## **Directional Sign Program**

- Installation of directional and wayfinding signage at key locations throughout the City
- Staff preparing Plans and Specifications for fabrication and installation
- Staff anticipated listing the project for bid by March 31, 2021
- Council has allocated \$150,000 for this project

## **Coleman Restroom Demolition and Reconstruction**

- Due to structural issues complete demolition and reconstruction of the restroom at Coleman Park
- Proposed to be funded by a Proposition 68 grant in conjunction with Park Impact fees
- Estimated cost approximately \$300,000
- Structure is currently being assessed for presence of lead or asbestos materials prior to demolition

## **Transit Center**

- Reconstruction of Transit Facilities along Harbor Street adjacent to City Park
- Staff will be preparing a Request for Proposals for Design services once resources are available
- Construction is anticipated to be complete in early 2023

# ENGINEERING/CAPITAL PROJECTS 3/3

Staff Contact: Rob Livick

## **Police Annex Parking Lot Repairs**

- Paving the unpaved portion of the parking/storage lot across Morro Bay Blvd from Police Station
- Includes repairs to damage from crane outriggers to parking lot during placement of coffee shop building – being paid by coffee shop contractor
- Council has allocated \$70,000 from Police impact fees for this project
- Awaiting resource availability to commence project

## **Misc. Small CIPs**

- North Point Parking Lot: Project canceled due lack of funds available in the assessment district accumulation. Work will be performed by the Homeowners Association
- Boat Rinse Off WQ/Tidelands Pocket Park: Complete
- Bocce Ball/Greenhouse on Shasta and Dunes: City Reassessing use and potential sale of the property
- **Adopted Operating and Capital Improvement Program is online at: [Adopted FY2020/21 Budget](#)**

# ENGINEERING/DEVELOPMENT REVIEW

Staff Contact: Rob Livick

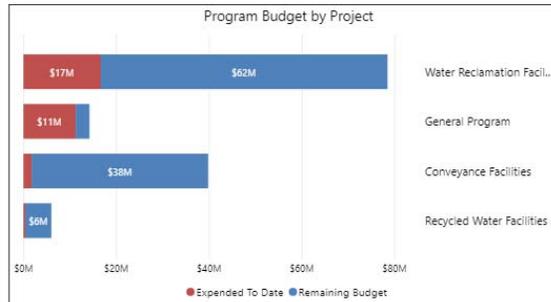
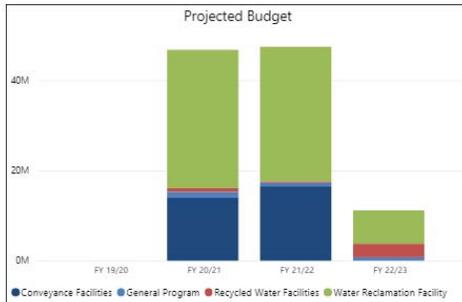
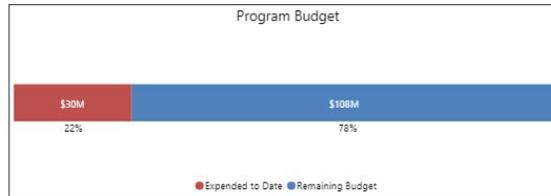
Staff is working on the following projects:

- 405 Atascadero, 35-unit multi-family low-income housing: In Plan check
- 535 Atascadero, Parcel Map (MB 15-0103) with Public Improvements: Approved & Ready for recordation
- Paula/Ironwood two lot subdivision (675 Paula St.): Map Check and Public Improvement Review
- Harborview Hotel/Commercial (205 Harbor St.): Planning Review
- Hotel Development – (295 Atascadero Road) NW corner Atascadero Road West and Highway 1: In Plan check
- Sonic Restaurant – (1840 Main St.) Main and Highway 41: In Plan check – Permit Extended to March 2021
- Rose's Landing Upstairs (725 Embarcadero) 10-Room Hotel: Under Construction
- US Coast Guard Addition (1275 Embarcadero): Under Construction
- Morro Bay Landing (1215 Embarcadero): Complete
- Three Stacks and a Rock Brewery at Former Aquarium Building (595 Embarcadero): Building Permit Issued
- Rhapsody In View (2790 Main St.), 8-Room Hotel : In Plan check
- Planning Permit (CDP/CUP/etc) Reviews: 8 Projects reviewed in November, 8 in December and 8 in January
- Building Permit Design Reviews: 13 Projects reviewed in November, 12 in December and 9 in January
- Encroachment Permits Issued: 26 total in November, 14 in December and 15 total in January

# WASTEWATER – NEW WRF

Staff Contact: Rob Livick

- Discussion of Proposed Change Orders on this PWAB Agenda
- Conveyance system construction has commenced
- Work continues in accordance with City Council direction.
- Additional Information at <http://morrobaywrf.com/>
  - [Factsheet](#)
  - [Dashboard](#)







AGENDA NO: B-2  
 MEETING DATE: February 17, 2021

# Staff Report

**TO:** Public Works Advisory Board **DATE:** February 11, 2021  
**FROM:** Eric Casares, PE – WRF Program Manager (Carollo)  
 Rob Livick, PE/PLS – City Engineer  
**SUBJECT:** Water Reclamation Facility (WRF) Project Review and Approval of Change Orders

**RECOMMENDATION**

Staff recommends the Public Works Advisory Board (PWAB) review and provide comments to City Council on Amendment No. 5 with Filanc-Black & Veatch (DBteam) for a total credit value of \$195,945.

**FISCAL IMPACT**

The total cost for the current two (2) Project Change Orders (PCOs) for the WRF is a credit of \$195,945. If all the PCOs are approved, then the guaranteed maximum price (GMP) for the WRF component of the overall project would decrease from \$75,761,822 to \$75,565,877. This total cost for the PCOs increases the existing contingency for the WRF from \$614,023 to \$809,968.

**BACKGROUND**

At the October 23, 2018, City Council meeting, a contract was awarded to the DB team in the amount of \$67,234,512 (DB Agreement). The contract is structured as a guaranteed maximum price (GMP). Therefore, the DB team committed to delivering the work specifically identified in the contract for a cost not to exceed \$67,234,512. The contract award was the culmination of a year-long competitive procurement that began with the advertisement of a request for qualifications (RFQ) on October 27, 2017. The scope of work (i.e., Exhibit B) included in the contract is the same as the scope of work included in the DB team's original proposal received by the City on May 08, 2018. A summary of the original contract value and the four (4) previous amendments are presented in the table below:

Amendment No.	Contract Value	Amendment
-	\$67,234,512	-
1	\$68,870,571	\$1,636,059
2	\$68,934,508	\$63,937
3	\$74,926,725	\$5,992,217
4	\$75,761,822	\$835,097
<b>5 (Proposed)</b>	<b>\$75,565,877</b>	<b>-\$195,945</b>

The DB team is responsible for design of the WRF (and not the other two components of the overall project – conveyance and injection well systems). Per the DB agreement, the design has progressed

Prepared By: EC Dept Review: RL  
 City Manager Review: SC City Attorney Review:

and been presented to the City over the course of the following design deliverables:

- Basis of Design Report/30 Percent Submittal
- 60 Percent Design Submittal
- 90 Percent Design Submittal
- Issues for Construction (IFC) Submittal

As anticipated and called for in the DB agreement, the DB team advanced the design concept that was included in their proposal. This refinement is captured in the Draft Basis of Design Report (BDR) and 30 Percent Design Submittal, 60 Percent Design Submittal, and 90 Percent Design Submittal and the IFC Submittal. As all are aware, the design has been completed and construction began on March 20, 2020.

At this time, the City has identified a total of two (2) PCOs that include a cost impact to the DB Agreement for consideration by PWAB. Details for each of the PCOs is included in Attachment 1. The table below summarizes the PCOs currently being considered. Approval of the PCO's would decrease the GMP.

PCO No.	Description	Cost Impact (Increase/Decrease)	Final PCO Cost	Primary Rationale
84	Alternate Red Legged Frog Barrier	Decrease	\$(468,768)	Environmental Constraints
87	PVC Coated Conduit in Areas 20, 30, and 70	Increase	\$272,822	Operational Improvements
<b>Total</b>			<b>-\$195,945</b>	

The primary rationale for the need for each PCO can be attributed to the following:

- **PCO No. 84: Alternate Red Legged Frog Barrier** – In November 2019, the City negotiated a Biological Opinion (BO) with the United States Fish and Wildlife Service (USFWS) for the California red legged frog (CRLF). Required in the BO is a permanent wildlife exclusion fence that will run along the eastern side of the site and the access road that connects the site to Teresa Road. The barrier will consist of a five-foot high concrete wall (embedded three feet in the ground) with a six-foot high chain link fence with privacy slats affixed to the top. The concrete wall has a five-inch wide overhang that will impede frogs from climbing the wall. The section along the access road will not have the chain link fence section affixed to the top of the concrete wall.

The original wildlife barrier has a cost of \$855,991 and was approved by City Council on May 26, 2020 as part of Amendment No. 3. Since the fall of 2020, the City, Program Manager, and design-build team have been engaged in a value engineering exercise for the wildlife exclusion barrier. Ultimately, the team finalized an alternative approach for the wildlife exclusion barrier along the east boundary of the WRF site consisting of:

- Six-foot high chain link fence
- Five-foot high high-density polyethylene (HDPE) sheeting buried to a depth of three-feet below grade
  - HDPE sheeting will be mechanically affixed to the chain link fencing
  - HDPE sheeting includes an integral overhang consistent with the original approach

The City and Program Manager presented this alternative approach to USFWS and received their approval to proceed with the alternative approach on January 6, 2021 (see Attachment 2).

- **PCO No. 87: PVC Coated Conduit in Areas 20, 30, and 70** – On May 26, 2020, the City Council approved Amendment No. 3 which included PCO No. 62 (Conduit Alternative Design) in the amount of \$(268,400). The PCO included changing the conduit materials for numerous locations throughout the WRF from PVC-coated conduit (Ocal®) to galvanized rigid conduit (GRC). This new PCO No. 87 reverses the decision to covert from OCal® to GRC for the following areas:
  - Area 20 – Headworks
  - Area 30 – Membrane Bioreactor
  - Area 70 – Sludge Handling and SAFE System

### **NEXT STEPS**

While this amendment addresses nearly all of the outstanding construction issues for the WRF, the City is working with the DB team to determine how to handle the recent soil lip that occurred in late January 2021. This is a sensitive situation, and in order to preserve the City's position in negotiations with the design-build team, we will not be discussing this issue in detail at this time. It is not clear at this time who is responsible for the cost of the investigations and remediation of the soil slip. The investigations and remediation carry with them large costs. City staff and the Program Manager will keep PWAB and the City Council apprised of the situation, as appropriate, as it evolves.

### **ATTACHMENT**

1. Potential Change Order Details
2. Letter from USFWS Approving Alternative Wildlife Exclusion Barrier

JOINT VENTURE



**FBV A Morro Bay Joint Venture**  
 1299 Oak Road, #490  
 Walnut Creek, CA 94597

**CHANGE ORDER ESTIMATE SUMMARY SHEET**

		<b>PCO # 084</b>
<b>## Morro Bay Water Reclamation Facility</b>		
DESCRIPTION: Alternate California Red Legged Frog Wildlife Barrier (Revision to PCO 58)		
CHANGE ORDER COST BREAKDOWN		Revisions/Comments
1 DIRECT LABOR	\$ 157,091.71	
2 DIRECT CONSTRUCTION EQUIPMENT	\$ 25,666.00	
3 DIRECT MATERIALS	\$ 122,537.21	
4 SUBCONTRACTOR'S WORK	\$ 23,643.94	
5 DESIGN ENGINEERING	\$ 15,000.00	
<b>6 DESIGN BUILDER DIRECT COST (ADD LINES 1-5)</b>	<b>\$ 343,938.86</b>	
7 FEE (4% of direct cost)	4.00% \$ 13,757.55	
8 OVERHEAD (6% of direct cost)	6.00% \$ 20,636.33	
<b>9 SUBTOTAL (ADD LINES 6-8)</b>	<b>\$ 378,332.75</b>	
10 GL/POLLUTION & PROFESSIONAL LIABILITY INSURANCE	1.26% \$ 4,766.99	
11 BUILDERS RISK INSURANCE	0.29% \$ 1,097.16	
12 BOND	0.80% \$ 3,026.66	
<b>13 SUBTOTAL (ADD LINES 9-12)</b>	<b>\$ 387,223.57</b>	
14 CONTINGENCY	0.00% \$ -	
<b>15 TOTAL LUMP SUM COST (ADD LINES 13-14)</b>	<b>\$ 387,223.57</b>	
Direction or resolution required by:		
Estimated time extension and justification:		
Impact to critical path: TBD		
PRIME CONTRACTOR'S NAME: FBV A Morro Bay Joint Venture SUBCONTRACTOR'S NAME:		
THE SCOPE OF THIS PROPOSAL IS ONLY AS LISTED HEREIN. ANY ADDITIONAL WORK REQUIRED, SHALL BE SUBJECT TO ADDITIONAL PRICING.		
SIGNATURE & TITLE OF PREPARER: _____ Aaron Heirsbberg, Sr. PM		DATE: December 16, 2020

**CHANGE ORDER REQUEST FORM**

JOINT VENTURE

**Project Name:** Morro Bay Water Reclamation Facility



PCO # 084

Date 12/16/2020

Ref Doc \_\_\_\_\_

Ref Doc date \_\_\_\_\_

Schedule Impact (# of Days +/-) TBD

Extra Work Description:

Add approximately 490 LF of 5' Tall Concrete Wall w/ Cantelevered Lip and 24" Above Grade

LABOR							
DESCRIPTION OF WORK		CLASSIFICATION	ST HOURS	OT HOURS	ST RATE	OT RATE	EXTENDED
Excavation & Compact Subgrade - 490' Long x 4' Wide x 3' Deep	3 days	Operator	24		\$ 98.00		\$ 2,352.00
		Laborer - Grade Checker	24		\$ 73.00		\$ 1,752.00
		Laborer - Compaction	24		\$ 73.00		\$ 1,752.00
							\$ -
Backfill - 490' Wall	3 1/2 days	Operator	28		\$ 98.00		\$ 2,744.00
		Laborer	28		\$ 73.00		\$ 2,044.00
		Laborer	28		\$ 73.00		\$ 2,044.00
							\$ -
Soil Stabilization and Drainage	2 days	2 Laborers	32		\$ 73.00		\$ 2,336.00
							\$ -
Concrete Wall - 490' L x 5' Tall x 8" Thick w/ Cantelevered Lip	Form	2 weeks	3 Carpenters	240		\$ 80.00	\$ 19,200.00
			1 Laborer	80		\$ 73.00	\$ 5,840.00
	Pour & Finish	2 days	4 Laborers	32	8.00	\$ 73.00	\$ 2,336.00
			1 Carpenter	16	2.00	\$ 80.00	\$ 1,280.00
	Strip & Cleanup	2 1/2 days	3 Carpenters	60		\$ 80.00	\$ 4,800.00
			1 Laborer	20		\$ 73.00	\$ 1,460.00
	Sack & Patch	2 days	2 Cement Masons	32		\$ 80.00	\$ 2,560.00
	Set Masonry Cap	4 days	2 Cement Masons	48		\$ 80.00	\$ 3,840.00
			Forman	5%			\$ 2,817.00
			QC Manager	3%			\$ 1,774.71
Subtotal - Hours			716	10.00			
<b>LABOR - SUBTOTAL</b>							<b>\$ 60,931.71</b>

EQUIPMENT							
DESCRIPTION OF WORK	OWNED OR RENTED	CLASSIFICATION	ST HOURS	OT HOURS	ST RATE	OT RATE	EXTENDED
Excavation - 490' Long x 4' Wide x 3' Deep	2 days	John Deere 410 Backhoe (Caltrans)	24		\$ 36.50		\$ 876.00
	2 days	Rental Compactor w/ Delivery	2		\$ 350.00		\$ 700.00
Backfill - 490' Wall	3 days	Rental Compactor w/ Delivery	3		\$ 350.00		\$ 1,050.00
	3 days	Cat 259B Track Skidsteer	24		\$ 36.50		\$ 876.00
Concrete Wall - 490' L x 5' Tall x 8" Thick w/ Cantelevered Lip	2 days	Concrete Pump - two mobs	18		\$ 277.78		\$ 5,000.00
	8 days	Crew Truck (Caltrans Rate)	56		\$ 31.00		\$ 1,736.00
	8 days	Pickup Truck (Caltrans Rate)	80		\$ 27.42		\$ 2,193.60
<b>TAX 7.75%</b>							<b>\$ -</b>
<b>EQUIPMENT - SUBTOTAL</b>							<b>\$ 12,431.60</b>



**CHANGE ORDER REQUEST FORM**

JOINT VENTURE

Project Name: **Morro Bay Water Reclamation Facility**



PCO # **084**  
 Date **12/16/2020**  
 Ref Doc \_\_\_\_\_  
 Ref Doc date \_\_\_\_\_  
 Schedule Impact (# of Days +/-) **TBD**

Extra Work Description:

Add approximately 3470 LF of 6' chain link fence slats.

LABOR							
DESCRIPTION OF WORK		CLASSIFICATION	ST HOURS	OT HOURS	ST RATE	OT RATE	EXTENDED
Add 3470 LF slats to 6" CLF		Operator	16		\$ 98.00		\$ 1,568.00
		2 Laborers	160		\$ 73.00		\$ 11,680.00
							\$ -
		Forman	32		\$ 115.00		\$ 3,680.00
		QC Manager	32		\$ 115.00		\$ 3,680.00
Subtotal - Hours			240	0.00			
<b>LABOR - SUBTOTAL</b>							<b>\$ 20,608.00</b>

EQUIPMENT							
DESCRIPTION OF WORK	OWNED OR RENTED	CLASSIFICATION	ST HOURS	OT HOURS	ST RATE	OT RATE	EXTENDED
Add 3470 LF slats to 6" CLF		Forklift (Caltrans)	16		\$ 61.98		\$ 991.68
		Pickup Trucks (Caltrans)	32		\$ 27.42		\$ 877.44
		Crew Trucks (Caltrans)	80		\$ 31.00		\$ 2,480.00
					\$ 31.00		\$ -
					\$ 27.42		\$ -
TAX					7.75%		\$ -
<b>EQUIPMENT - SUBTOTAL</b>							<b>\$ 4,349.12</b>

MATERIAL							
DESCRIPTION OF WORK	SUPPLIER	ITEM DESCRIPTION	PO #	QTY	U/M	RATE	EXTENDED
Add 3470 LF slats to 6" CLF	TBD	Slats (standard color) - 82 per box per 10 lf		347.00	box	\$ 70.00	\$ 24,290.00
							\$ -
							\$ -
TAX					7.75%		\$ 1,882.48
<b>MATERIAL - SUBTOTAL</b>							<b>\$ 28,054.95</b>

SUBCONTRACTOR							
DESCRIPTION OF WORK	CONTRACT #	SUBCONTRACTOR		QTY	U/M	RATE	EXTENDED
Add 3470 LF slats to 6" CLF							\$ -
Dump Fees		R&R Roll Off - Trash		1.00	ls	\$ 200.00	\$ 200.00
							\$ -
							\$ -
MARKUP - LABOR					20%		\$ -
MARKUP - MATERIAL, EQUIPMENT & OTHER					15%		\$ 30.00
<b>SUBCONTRACTOR - SUBTOTAL</b>							<b>\$ 230.00</b>

**Subtotal Change Order Request \$ 53,242.07**

**CHANGE ORDER REQUEST FORM**

JOINT VENTURE

Project Name: **Morro Bay Water Reclamation Facility**



PCO # **084**

Date **12/16/2020**

Ref Doc \_\_\_\_\_

Ref Doc date \_\_\_\_\_

Schedule Impact (# of Days +/-) **TBD**

Extra Work Description:

Furnish and install 1660' of 5' tall 2mm Annimex HDPE Barrier w/ 5" x 5" FRP Angle anchored to fence posts.

LABOR							
DESCRIPTION OF WORK		CLASSIFICATION	ST HOURS	OT HOURS	ST RATE	OT RATE	EXTENDED
Hand Excavation 3' Trench x 1'		Operators	40		\$ 98.00		\$ 3,920.00
		2 Laborers	80		\$ 73.00		\$ 5,840.00
Install 5" x 5" FRP Angle		Operators	24		\$ 98.00		\$ 2,352.00
		Laborers	320		\$ 73.00		\$ 23,360.00
Install FRP Barrier		Laborers	320		\$ 73.00		\$ 23,360.00
Backfill Excavated 3' Trench - 2' slurry		3 Laborers	48		\$ 73.00		\$ 3,504.00
Backfill Excavated 3' Trench - 1' onsite material		Operators	24		\$ 98.00		\$ 2,352.00
		Laborers	48		\$ 73.00		\$ 3,504.00
		Foreman	32		\$ 115.00		\$ 3,680.00
		QC Manager	32		\$ 115.00		\$ 3,680.00
Subtotal - Hours			968	0.00			
<b>LABOR - SUBTOTAL</b>							<b>\$ 75,552.00</b>

EQUIPMENT							
DESCRIPTION OF WORK	OWNED OR RENTED	CLASSIFICATION	ST HOURS	OT HOURS	ST RATE	OT RATE	EXTENDED
Hand Excavation 3' Trench x 1'		John Deere 410 Backhoe (Caltrans)	40		\$ 36.50		\$ 1,460.00
		Pickup Truck (Caltrans)	8		\$ 21.00		\$ 168.00
		Crew Truck (Caltrans)	8		\$ 27.42		\$ 219.36
Install 5" x 5" FRP Angle		Forklift (Caltrans)	16		\$ 61.98		\$ 991.68
		Pickup Truck (Caltrans)	8		\$ 21.00		\$ 168.00
		Crew Truck (Caltrans)	8		\$ 27.42		\$ 219.36
Install FRP Barrier		Forklift (Caltrans)	24		\$ 61.98		\$ 1,487.52
		Pickup Truck (Caltrans)	8		\$ 21.00		\$ 168.00
		Crew Truck (Caltrans)	8		\$ 27.42		\$ 219.36
Backfill Excavated 3' Trench - 2' slurry	1 day	Pump					\$ 2,500.00
Backfill Excavated 3' Trench - 1' onsite material	2 days	Rental Compactor w/ Delivery	2		\$ 350.00		\$ 700.00
	2 days	Cat 259B Track Skidsteer	16		\$ 36.50		\$ 584.00
					\$ 27.42		\$ -
TAX 7.75%							\$ -
<b>EQUIPMENT - SUBTOTAL</b>							<b>\$ 8,885.28</b>

MATERIAL							
DESCRIPTION OF WORK	SUPPLIER	ITEM DESCRIPTION	PO #	QTY	U/M	RATE	EXTENDED
Install 5" x 5" FRP Angle	TBD	5" x 5" x 8' - FRP Angles & Anchors		210.00	ea	\$ 165.00	\$ 34,650.00
Install FRP Barrier	Annimex	2mm FRP Barrier - 5' Tall & Anchors		1.00	ls	\$ 25,000.00	\$ 25,000.00
Backfill Excavated 3' Trench - 2' slurry		Slurry		38.11	cy	\$ 125.00	\$ 4,763.89
TAX 7.75%							\$ 2,685.38
<b>MATERIAL - SUBTOTAL</b>							<b>\$ 69,784.64</b>

SUBCONTRACTOR							
DESCRIPTION OF WORK	CONTRACT #	SUBCONTRACTOR		QTY	U/M	RATE	EXTENDED
Dump Fees		R&R Roll Off - Trash		1.00	ls	\$ 200.00	\$ 200.00
							\$ -
							\$ -

Furnish and install 1660' of 5' tall 2mm Annimex HDPE Barrier w/ 5" x 5" FRP Angle anchored to fence posts.

						\$	-
					MARKUP - LABOR	20%	\$ 40.00
					MARKUP - MATERIAL, EQUIPMENT & OTHER	15%	\$ -
					SUBCONTRACTOR - SUBTOTAL		\$ 240.00

**Subtotal Change Order Request      \$ 154,461.92**



**FILANC**

**CHANGE ORDER ESTIMATE SUMMARY SHEET**

**FBV A Morro Bay Joint Venture**  
 1299 Oak Road, #490  
 Walnut Creek, CA 94597

		<b>PCO # 087 R1</b>
<b>Project Name: Morro Bay Water Reclamation Facility</b>		
DESCRIPTION:		
1. PVC Coating Conduit & Fittings: Provide and install PVC coated conduit & fittings in process areas 20, 30, 50, 60, and 70 for all above grade circuits in lieu of the previously value engineered galvanized steel conduit & fittings.		
CHANGE ORDER COST BREAKDOWN		Revisions/Comments
1 DIRECT LABOR	\$ -	
2 DIRECT CONSTRUCTION EQUIPMENT	\$ -	
3 DIRECT MATERIALS	\$ -	
4 SUBCONTRACTOR'S WORK	\$ 242,325.57	
5 DESIGN ENGINEERING	0.00% \$ -	
<b>6 DESIGN BUILDER DIRECT COST (ADD LINES 1-5)</b>		<b>\$ 242,325.57</b>
7 FEE (4% of direct cost)	4.00%	\$ 9,693.02
8 OVERHEAD (6% of direct cost)	6.00%	\$ 14,539.53
<b>9 SUBTOTAL (ADD LINES 6-8)</b>		<b>\$ 266,558.13</b>
10 GL/POLLUTION & PROFESSIONAL LIABILITY INSURANCE	1.26%	\$ 3,358.63
11 BUILDERS RISK INSURANCE	0.29%	\$ 773.02
12 BOND	0.80%	\$ 2,132.47
<b>13 SUBTOTAL (ADD LINES 9-12)</b>		<b>\$ 272,822.24</b>
14 CONTINGENCY	0.00%	\$ -
<b>15 TOTAL LUMP SUM COST (ADD LINES 13-14)</b>		<b>\$ 272,822.24</b>
Direction or resolution required by:		
Estimated time extension and justification:		
Impact to critical path: TBD		
PRIME CONTRACTOR'S NAME: FBV A Morro Bay Joint Venture SUBCONTRACTOR'S NAME: Electricraft		
THE SCOPE OF THIS PROPOSAL IS ONLY AS LISTED HEREIN. ANY ADDITIONAL WORK REQUIRED, SHALL BE SUBJECT TO ADDITIONAL PRICING.		
SIGNATURE & TITLE OF PREPARER: _____ Aaron Heirsbberg, Sr. PM		DATE: 11/10/20

Change Order Request Form



Project Name: Morro Bay Water Reclamation Facility

PCO # 087 R1  
 Req Date 11/12/2020  
 Ref Doc \_\_\_\_\_  
 Ref Doc date \_\_\_\_\_  
 Schedule Impact (# of Days +/-) TBD

Extra Work Description:

1. **PVC Coating Conduit & Fittings:** Provide and install PVC coated conduit & fittings in process areas 20, 30, 50, 60, and 70 for all above grade circuits in lieu of the previously value engineered galvanized steel conduit & fittings.

Specifically Excluded on all:

1. PVC coated conduit and fittings above grade in all remaining process/building areas and RO building electrical room.

**Labor**

Date	Cost Code	Employee Name	Classification	S/T Hours	O/T Hours	S/T Rate	O/T Rate	Extended
						\$ -		\$ -
						\$ -		\$ -
						\$ -		\$ -
						\$ -		\$ -
						\$ -		\$ -
				0	0			\$ -
<b>Labor Subtotal</b>								<b>\$ -</b>

**Equipment**

Date	Cost Code	Owned or Rented	Description	S/T Hours	O/T Hours	S/T Rate	O/T Rate	Extended
								\$ -
								\$ -
								\$ -
								\$ -
								\$ -
<b>BASED ON CALTRANS RATES CONSISTENT WITH PAY APPLICATION</b>								\$ -
						CA State Tax	7.75%	\$ -
<b>Equipment Subtotal</b>								<b>\$ -</b>

**Material**

Date	Cost Code	(If Applicable) Contract # CO #		Vendor	Quantity	U/M	Unit Cost	Extended
								\$ -
								\$ -
								\$ -
								\$ -
<b>CA State Tax</b>								7.75%
<b>Material Subtotal</b>								<b>\$ -</b>

**Subcontract**

Date	Cost Code	(If Applicable) Contract # CO #		Subcontractor	Quantity	U/M	Unit Cost	Extended
11/2/20				Electricraft RFC #3 Rev #1 - PVC Coated Conduit	1	LS	\$ 242,325.57	\$ 242,325.57
<b>Subcontract Subtotal</b>								<b>\$ 242,325.57</b>

Date: 11/10/20 PM Approval AH  
 (Initials)

10/6/15 **Subtotal Change Order Request** **\$ 242,325.57**

# RFC #3 Rev #1

To: J.R. Filanc Construction Company, Inc. From: Dave Horton  
ATTN: Aaron Heirshberg Project Manager  
Email: [aheirshberg@filanc.com](mailto:aheirshberg@filanc.com) Pages: 7  
Phone: 805-421-0112 Date: 11/2/20  
Re: Morro Bay WRF CC: File  
PVC Coated Conduit & SS316 Supports  
in Areas 20, 30, 50, 60, and 70

Urgent  For Review  For Your Action  Please Confirm Fax  Please Reply

In response to PCO 87 Revised Requirements for the referenced project, our lump sum request for change is **as follows** to cover the electrical work including, material, tax and labor during straight time hours Monday through Friday for a complete installation as outlined below and per the attached breakdown:

**PVC Coated Conduit & Fittings** **\$242,325.57**

Specifically Included:

1. Provide and install PVC coated conduit & fittings in process areas 20, 30, 50, 60, and 70 for all above grade circuits in lieu of the previously value engineered galvanized steel conduit & fittings.

~~**Stainless Steel 316 Supports** **\$81,017.61**~~

~~Specifically Included:~~

- ~~1. Provide and install stainless steel type 316 channel/strut, strut fittings, hardware, and conduit straps in process areas 20, 30, 50, 60, and 70 in lieu of the previously value engineered galvanized supports/hardware.~~

Specifically Excluded on all:

1. PVC coated conduit and fittings above grade in all remaining process/building areas and RO building electrical room.
2. PVC coated or stainless steel support channel, straps, and/or hardware in all remaining process/building areas and RO building electrical room.

In accordance with the California Code of Regulations Title 8, Chapter 2, Subchapter IV our electricians have been tested and are certified Journeyman General Electricians. Our standard additional insured endorsement CG 2010 11 85 modified is included in this quote. Any additional endorsements or waivers can be provided at an additional charge.

Thank you for the opportunity to provide additional services for this project. This RFC is valid for a period of 30 days. Please feel free to call regarding any questions you may have.

Sincerely,

Dave Horton  
Project Manager

Z:\Open Jobs\20-064 Morro Bay WRF\RFC\RFC 3\Rev 1\RFC 3R1.doc

PLEASE NOTE: The information contained in this facsimile message is intended only for the personal and confidential use of the designated recipient(s) named above. This message may be a contractor-client communication, and as such is privileged and confidential. If the reader of this message is *not* the intended recipient(s) or an agent responsible for delivering it to the intended recipient(s), you are hereby notified that you have received this document in error, and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you have received this communication in error, please notify this office immediately by phone (805) 544-8224 and return the original message to Electriccraft Inc. Thank you.

**Summary Cost Breakdown  
Morro Bay WRF  
Request for Change #3 Rev #1**

**PVC Coated Conduit in Areas 20, 30, 50, 60, and 70  
11/2/20**

**CHARGE/ CREDIT**

Labor	\$0.00
Labor OH&P	\$0.00
Material	\$193,625.60
Tax	\$15,005.98
Material OH&P	\$31,294.73
Subcontractor	\$0.00
Subtotal	\$239,926.31
Bond	\$2,399.26
Total	\$242,325.57



### CHARGE PRICING SHEET

Job	Morro Bay WRF
Work	PVC Coated Conduits in Areas 20, 30, 50, 60, and 70

Date	11/02/20		
Sheet(s)	1	Of	4

Estimate #	Priced By	Extended By	Checked By
1	DH	DH	

#	✓	Material	Quantity	MATERIAL			LABOR		
				Price	Per	Extension	Unit	Per	Extension
1		3/4" PVC coated rigid steel conduit	6920	\$974.98	C	\$67,468.62			-
2		1" PVC coated rigid steel conduit	1080	\$1,262.52	C	\$13,635.22			-
3		1-1/4" PVC coated rigid steel conduit	60	\$1,587.24	C	\$952.34			-
4		1-1/2" PVC coated rigid steel conduit	20	\$1,872.24	C	\$374.45			-
5		2" PVC coated rigid steel conduit	260	\$2,536.87	C	\$6,595.86			-
6		3/4" PVC coated hub w/ ground lug	1054	\$57.48	E	\$60,583.92			-
7		1" PVC coated hub w/ ground lug	215	\$71.83	E	\$15,443.45			-
8		1-1/4" PVC coated hub w/ ground lug	12	\$82.59	E	\$991.08			-
9		1-1/2" PVC coated hub w/ ground lug	2	\$94.43	E	\$188.86			-
10		2" PVC coated hub w/ ground lug	53	\$135.89	E	\$7,202.17			-
11		3/4" PVC coated LB w/ cover & gasket	507	\$75.33	E	\$38,192.31			-
12		1" PVC coated LB w/ cover & gasket	76	\$100.81	E	\$7,661.56			-
13		1-1/4" PVC coated LB w/ cover & gasket	2	\$146.40	E	\$292.80			-
14		1-1/2" PVC coated LB w/ cover & gasket	1	\$178.72	E	\$178.72			-
15		2" PVC coated LB w/ cover & gasket	22	\$263.52	E	\$5,797.44			-
16		Class1/Div1 PVC coated GUA w/ cover	43	\$188.41	E	\$8,101.63			-
17		3/4" PVC coated EYS	145	\$90.38	E	\$13,105.10			-
18		1" PVC coated EYS	16	\$108.49	E	\$1,735.84			-
19		1-1/4" PVC coated EYS	2	\$130.29	E	\$260.58			-
20		2" PVC coated EYS	9	\$217.20	E	\$1,954.80			-
21		3/4" PVC coated liquidtight connector	638	\$71.54	E	\$45,642.52			-
22		1" PVC coated liquidtight connector	154	\$85.73	E	\$13,202.42			-
23		1-1/4" PVC coated liquidtight connector	4	\$136.53	E	\$546.12			-
24		1-1/2" PVC coated liquidtight connector	2	\$161.58	E	\$323.16			-
25		2" PVC coated liquidtight connector	20	\$282.43	E	\$5,648.60			-
26						-			-
27		3/4"x36" Class1/Div1 PVC coated flex kit	44	\$1,105.03	E	\$48,621.32			-
28		1"x36" Class1/Div1 PVC coated flex kit	4	\$1,731.82	E	\$6,927.28			-
29		1-1/4"x36" Class1/Div1 PVC coated flex kit	1	\$2,585.49	E	\$2,585.49			-
30		PVC coating touch-up	12	\$46.23	E	\$554.76			-
				Material ▶		<b>\$374,768.42</b>	Labor ▶		<b>0.00</b>



### CREDIT PRICING SHEET

Job	Morro Bay WRF
Work	GRS Conduits in Areas 20, 30, 50, 60, and 70

Date	11/02/20		
Sheet(s)	2	Of	4

Estimate #	Priced By	Extended By	Checked By
1	DH	DH	

	✓	Material	Quantity	MATERIAL			LABOR		
				Price	Per	Extension	Unit	Per	Extension
1		3/4" rigid steel conduit	-6920	\$735.79	C	-\$50,916.67			-
2		1" rigid steel conduit	-1080	\$1,091.06	C	-\$11,783.45			-
3		1-1/4" rigid steel conduit	-60	\$1,460.33	C	-\$876.20			-
4		1-1/2" rigid steel conduit	-20	\$1,954.73	C	-\$390.95			-
5		2" rigid steel conduit	-150	\$2,289.53	C	-\$3,434.30			-
6		3/4" hub w/ ground lug	-1054	\$2,590.96	C	-\$27,308.72			-
7		1" hub w/ ground lug	-215	\$3,235.89	C	-\$6,957.16			-
8		1-1/4" hub w/ ground lug	-12	\$6,882.28	C	-\$825.87			-
9		1-1/2" hub w/ ground lug	-2	\$6,379.66	C	-\$127.59			-
10		2" hub w/ ground lug	-53	\$8,538.69	C	-\$4,525.51			-
11		3/4" LB w/ cover & gasket	-507	\$15.76	E	-\$7,990.32			-
12		1" LB w/ cover & gasket	-76	\$30.51	E	-\$2,318.76			-
13		1-1/4" LB w/ cover & gasket	-2	\$48.57	E	-\$97.14			-
14		1-1/2" LB w/ cover & gasket	-1	\$62.74	E	-\$62.74			-
15		2" LB w/ cover & gasket	-22	\$103.54	E	-\$2,277.88			-
16		Class1/Div1 GUA w/ cover	-43	\$90.84	E	-\$3,906.12			-
17		3/4" EYS	-145	\$28.07	E	-\$4,070.15			-
18		1" EYS	-16	\$50.43	E	-\$806.88			-
19		1-1/4" EYS	-2	\$91.60	E	-\$183.20			-
20		2" EYS	-9	\$193.80	E	-\$1,744.20			-
21						-			-
22		3/4" liquidtight connector	-638	\$693.54	C	-\$4,424.79			-
23		1" liquidtight connector	-154	\$1,124.74	C	-\$1,732.10			-
24		1-1/4" liquidtight connector	-4	\$2,231.27	C	-\$89.25			-
25		1-1/2" liquidtight connector	-2	\$3,198.27	C	-\$63.97			-
26		2" liquidtight connector	-20	\$5,297.48	C	-\$1,059.50			-
27		3/4"x36" Class1/Div1 flex kit	-44	\$819.93	E	-\$36,076.92			-
28		1"x36" Class1/Div1 flex kit	-4	\$1,284.69	E	-\$5,138.76			-
29		1-1/4"x36" Class1/Div1 flex kit	-1	\$1,953.74	E	-\$1,953.74			-
30						-			-
				Material ▶	<b>-\$181,142.82</b>		Labor ▶	<b>0.00</b>	

**Summary Cost Breakdown  
Morro Bay WRF  
Request for Change #3 Rev #1**

**Stainless Steel 316 Supports in Areas 20, 30, 50, 60, and 70  
11/2/20**

**CHARGE/ CREDIT**

Labor	\$0.00
Labor OH&P	\$0.00
Material	\$64,735.58
Tax	\$5,017.00
Material OH&P	\$10,462.88
Subcontractor	\$0.00
Subtotal	\$80,215.46
Bond	\$802.15
Total	\$81,017.61



### CHARGE PRICING SHEET

Job	Morro Bay WRF
Work	Stainless Steel 316 Supports in Areas 20, 30, 50, 60, and 70

Date	11/02/20		
Sheet(s)	3	Of	4

Estimate #	Priced By	Extended By	Checked By
1	DH	DH	

#	✓	Material	Quantity	MATERIAL			LABOR		
				Price	Per	Extension	Unit	Per	Extension
1		3/4" SS316 strut strap	1300	\$5.81	E	\$7,553.00			-
2		1" SS316 strut strap	450	\$6.36	E	\$2,862.00			-
3		1-1/4" SS316 strut strap	16	\$7.08	E	\$113.28			-
4		1-1/2" SS316 strut strap	14	\$10.05	E	\$140.70			-
5		2" SS316 strut strap	100	\$11.16	E	\$1,116.00			-
6						-			-
7		7/8" SS316 strut	420	\$14.97	E	\$6,287.40			-
8		1-5/8" SS316 strut	2900	\$21.69	E	\$62,901.00			-
9		Single channel post base SS316	140	\$152.31	E	\$21,323.40			-
10		Misc SS316 strut fittings	1	\$5,000.00	E	\$5,000.00			-
11		Misc SS316 hardware	1	\$1,500.00	E	\$1,500.00			-
12						-			-
13						-			-
14						-			-
15						-			-
16						-			-
17						-			-
18						-			-
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29						-			-
30						-			-
				Material ▶	<b>\$108,796.78</b>		Labor ▶	<b>0.00</b>	



### CREDIT PRICING SHEET

Job	Morro Bay WRF
Work	HDG Supports in Areas 20, 30, 50, 60, and 70

Date	11/02/20		
Sheet(s)	4	Of	4

Estimate #	Priced By	Extended By	Checked By
1	DH	DH	

	✓	Material	Quantity	MATERIAL			LABOR		
				Price	Per	Extension	Unit	Per	Extension
1		3/4" HDG strut strap	-1300	\$394.26	C	-\$5,125.38			-
2		1" HDG strut strap	-450	\$408.93	C	-\$1,840.19			-
3		1-1/4" HDG strut strap	-16	\$502.27	C	-\$80.36			-
4		1-1/2" HDG strut strap	-14	\$592.66	C	-\$82.97			-
5		2" HDG strut strap	-100	\$650.57	C	-\$650.57			-
6						-			-
7		7/8" HDG strut	-420	\$561.29	C	-\$2,357.42			-
8		1-5/8" HDG strut	-2900	\$792.96	C	-\$22,995.84			-
9		Single channel post base HDG	-140	\$6,377.48	C	-\$8,928.47			-
10		Misc HDG strut fittings	-1	\$1,500.00	E	-\$1,500.00			-
11		Misc HDG hardware	-1	\$500.00	E	-\$500.00			-
12						-			-
13						-			-
14						-			-
15						-			-
16						-			-
17						-			-
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29						-			-
30						-			-
				Material ▶	<b>-\$44,061.20</b>		Labor ▶	<b>0.00</b>	



## United States Department of the Interior

### U.S. FISH AND WILDLIFE SERVICE

Ecological Services  
Ventura Fish and Wildlife Office  
2493 Portola Road, Suite B  
Ventura, California 93003



IN REPLY REFER TO:  
08EVEN00-2020-F-0010

January 6, 2021

Danusha Chandy, Senior Engineer  
Office of Wastewater Management  
U.S. Environmental Protection Agency  
Washington, D.C. 20460

Subject: Amendment to the Biological Opinion on the City of Morro Bay's Water Reclamation Facility Project

Dear Danusha Chandy:

We are writing in response to your request, received in our office October 9, 2020, for our review of the U.S. Environmental Protection Agency's proposed changes to the Morro Bay Water Reclamation Facility Project (project). Your request concerns proposed changes to the material and design of the project's exclusion barrier. We have reviewed the proposed changes and whether they would cause additional effects to the federally threatened California red-legged frog (*Rana draytonii*), tidewater goby (*Eucyclogobius newberryi*), and Morro shoulderband snail (*Helminthoglypta walkeriana*), and critical habitat of the California red-legged frog, beyond those previously analyzed in the subject biological opinion.

The proposed changes include using a high density polyethylene (HDPE) exclusion barrier along the facility's eastern edge as it interfaces with the Drainage 3 corridor, in place of the concrete barrier described in the biological opinion. The concrete barrier would still be used in the southeastern part of the site along the access road. The HDPE exclusion barrier would be installed 36 inches below grade and extend 24 inches above grade. It has a 15 to 30 year life expectancy, compared to the 50 to 100 year life expectancy of the concrete barrier. The HDPE barrier would have a 4-inch overhanging lip at the top of the fence to deter climbing California red-legged frogs, while the concrete barrier would have a 6-inch lip. The City of Morro Bay (applicant) will conduct quarterly inspections of the barrier for signs of wear or damage and provide immediate repairs as needed. The applicant expects that only the above-ground portion of the barrier will need to be replaced in the future, because the below-ground barrier will be protected from sunlight, weather, and other potential damage. In the event that a complete barrier

replacement is required, the applicant will contact the U.S. Fish and Wildlife Service (Service) for guidance prior to completing replacement. The applicant will document instructions to contact the Service in the event of a complete barrier replacement in their written protocols for fence maintenance.

The Service previously analyzed impacts to the California red-legged frog and its critical habitat resulting from the project in the subject biological opinion. In the same document, we also concluded that the project was not likely to adversely affect the tidewater goby and Morro shoulderband snail. The applicant would implement all conservation measures as outlined in the biological opinion. Based on this information, we have determined that the proposed modification to the project falls within the scope of the described action and effects to federally listed species and critical habitat previously analyzed in the subject biological opinion. We appreciate your coordination to address listed species concerns. If you have any questions, please contact Danielle Fagre by electronic mail at [danielle\\_fagre@fws.gov](mailto:danielle_fagre@fws.gov).

Sincerely,

Leilani Takano  
Assistant Field Supervisor

cc: City of Morro Bay