



## BOARD OF DIRECTORS

Raynette Gregory, President                      Anthony Kalvans, Vice-President  
Ward Roney, Director                              Hector Palafox, Director                      Ashley Sangster, Director

## REGULAR MEETING AGENDA 6:30 P.M. Closed Session 7:00 P.M. Opened Session SMCSD Boardroom 08-26-2021

### IMPORTANT NOTICE REGARDING COVID-19 AND TELECONFERENCE MEETINGS:

To minimize the spread of the Corona Virus, please note the following changes to the District's ordinary meeting procedures:

- The District offices are not opened to the public at this time, please call 805-467-3388
- The Meeting will be conducted with social distancing observed.
- All members of the public seeking to observe and comment to the local legislative body may do so in person or telephonically/email in the manner described below.

### HOW TO SUBMIT PUBLIC COMMENT IF NOT ATTENDING MEETING:

**Written / Read Aloud:** Please email your comments to [tamara.parent@sanmiguelcsd.org](mailto:tamara.parent@sanmiguelcsd.org) (Board Clerk), write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. If you would like your comment to be read aloud at the meeting (keep to three minutes) prominently write "Read Aloud at Meeting" at the top of your email. All comments received before 4:00 PM the day of the meeting will be included as agenda supplement on the District's website under relevant meeting date and will be provided to the Board of Directors.

**Voice Mail:** Leave a message on the District phone line at 805-467-3388 after 4:30pm before 4:30pm District Staff will take down message. Voice "Public Comment" at beginning of message and include agenda item number and title. All comments received before 4:00 PM the day of the meeting will be included as agenda supplement on the District's website under relevant meeting date and will be provided to the Board of Directors.

### PUBLIC RECORD

Public records that relate to any item on the open session agenda for a meeting are available for public inspection. Those records that are distributed after the agenda posting deadline for the meeting are available for public inspection at the same time, they are distributed to all of the members of the Board. The documents may also be obtained by calling the District Board Clerk.

Please see: [www.sanmiguelcsd.org](http://www.sanmiguelcsd.org)

**Cell Phones:** As a courtesy to others, please silence your cell phone or pager during the meeting and engage in conversations outside the Boardroom.

**Americans with Disabilities Act:** If you need special assistance to participate in this meeting, please contact the CSD Clerk at (805) 467-3388. Notification 48 hours in advance will enable the CSD to make reasonable arrangements to ensure accessibility to this meeting. Assisted listening devices are available for the hearing impaired.

**Public Comment:** please see notice. Sign in sheet at podium for public comment. Comments are *limited to three minutes* unless you have registered your organization with CSD Clerk prior to the meeting. Please complete a "Request to Speak" form located at the podium in the boardroom in order to address the Board of Directors on any agenda item. If you wish to speak on an item not on the agenda, you may do so under item VII "Public Comment and Communications for items not on the agenda". Any member of the public may address the Board of Directors on items on the Consent Calendar. Please complete a "Request to Speak" form as noted above and mark which item number you wish to address

**Meeting Schedule:** Regular Board of Director meetings are generally held in the SMCSO Boardroom on the fourth Thursday of each month at 7:00 P.M. Agendas are also posted at: [www.sanmiguelcsd.org](http://www.sanmiguelcsd.org)

**Agendas:** Agenda packets are available for public inspection 72 hours prior to the scheduled meeting at the Counter/ San Miguel CSD office located at 1150 Mission St., San Miguel, during normal business hours. Any agenda-related writings or documents provided to a majority of the Board of Directors after distribution of the agenda packet are available for public inspection at the same time at the counter/ San Miguel CSD office at 1150 Mission St., San Miguel, during normal business hours.

- I. **Call to Order: 6:30 PM**
- II. **Pledge of Allegiance:**
- III. **Roll Call: Gregory\_\_\_ Kalvans\_\_\_ Roney\_\_\_ Palafox\_\_\_ Sangster\_\_\_**
- IV. **Approval of Regular Meeting Agenda:**

M\_\_\_\_\_ S\_\_\_\_\_ V\_\_\_\_\_

V. **ADJOURN TO CLOSED SESSION:** Public Comment for items on closed session agenda  
Time:\_\_\_\_\_

**A. CLOSED SESSION AGENDA:**

- 1. **CONFERENCE WITH DISTRICT GENERAL COUNSEL – Existing Litigation** Pursuant to Government Code Section 54956.9 (d)(1) Case: *Steinbeck v. City of Paso Robles, Santa Clara County Superior Court Case No. 1-14-CV-265039* and Case: *Eidemiller v. City of Paso Robles, Santa Clara County Superior Court Case No. 1-14-CV-269212*

VI. **Call to Order for Regular Board Meeting/Report out of Closed Session 7:00 PM**  
Time:\_\_\_\_\_

- 1. Report out of closed session by District General Counsel (WhiteBrenner, LLP)

**VII. Public Comment and Communications for items not on the agenda:**

Persons wishing to speak on a matter not on the agenda may be heard at this time; however, no action will be taken until placed on a future agenda. Speakers are **limited to three minutes**. Please complete a "Request to Speak" and "Sign in".

**VIII. Special Presentations/Public Hearings/Other:** None

**IX. Staff & Committee Reports – Receive & File:**

**Non-District Reports:**

- |    |   |                  |
|----|---|------------------|
| 1. | San Luis Obispo County                    | No Report/Verbal |
| 2. | Camp Roberts—Army National Guard (Mitten) | No Report/Verbal |
| 3. | Community Service Organizations           | No Report/Verbal |

**District Staff & Committee Reports:**

- |    |                          |                  |                 |
|----|--------------------------|------------------|-----------------|
| 4. | Interim General Manager  | (Mr. Roberson)   | Verbal          |
| 5. | District General Counsel | (Mr. White)      | Verbal          |
| 6. | District Engineer        | (Dr. Reely)      | Report Attached |
| 7. | Director of Utilities    | (Mr. Dodds)      | Report Attached |
| 8. | Fire Chief               | (Chief Roberson) | Report Attached |

**X. CONSENT CALENDAR:**

The items listed below are scheduled for consideration as a group and one vote. Any Director or a member of the public may request an item be withdrawn from the Consent Agenda to discuss or to change the recommended course of action. Unless an item is pulled for separate consideration by the Board, the following items are recommended for approval without further discussion.

**1. Review and Approve Board Meeting Minutes**

- A. 7-22-2021 Regular Board Meeting

2. Approving **RESOLUTION 2021-29**, assignment of banking powers for interim general manager Robert Roberson and Financial Officer Michelle Hido for district bank accounts and removing former Financial Officer Paola Freeman.

**XI. BOARD ACTION ITEMS:**

**1. Review, Discuss, Receive and File the Enumeration of Financial Report for JULY 2021 (Hido)**

- A. Claims Detail Report
- B. Statement of Revenue Budget vs Actuals
- C. Rev Budget vs Actual Summary
- D. Statement of Expenditures Budget vs Actual
- E. Cash Report

**Public Comments:** (Hear public comments prior to Board Action)      M \_\_\_ S \_\_\_ V \_\_\_

2. **Presentation and discussion on status of the Machado Wastewater Treatment Facility Upgrade Project (Dodds/ Reely)**

**Recommendation:** Receive and discuss status update for Machado Wastewater Treatment Facility Upgrade Project. *Information item only*

**Public Comments:** (Hear public comments prior to Board Action)

- 3. Discussion and Consideration by the Board of Directors of the San Miguel Community Services District to approve the Request for Proposals (RFP) & Technical Specifications for the Wastewater Treatment Facility Upgrade & Expansion Headworks Screening and Grit Removal Equipment and authorize the Director of Utilities to advertise for qualified cost proposals. (Dodds)**

**Recommendation:** Discuss and authorize Director of Utilities to advertise for cost proposals from qualified Headworks Screening and Grit Removal Equipment Vendors.

**Public Comments:** (Hear public comments prior to Board Action) M\_\_\_\_\_S\_\_\_\_\_V\_\_\_\_\_

- 4. Discussion on the Integrated Waste Management Authority (IWMA) (Dodds)**

**Recommendation:** Discuss the status if the IWMA.

**Public Comments:** (Hear public comments prior to Board Action)

- 5. Review and approve Resolution 2021-28 authorizing a FY 2021-22 budget adjustment of \$10,000 to new Solid Waste object SB1383 Compliance (60-650) to be transferred from Solid Waste Operational reserve. (Dodds)**

**Recommendation:** Approve Resolution 2021-28 approving a budget adjustment of \$10,000 to new Solid Waste object SB1383 Compliance (60-650) to be transferred from Solid Waste Operational reserve

**Public Comments:** (Hear public comments prior to Board Action) M\_\_\_\_\_S\_\_\_\_\_V\_\_\_\_\_

- 6. Discuss and authorize the Director of Utilities to release a RFP for District Engineering services. (Dodds)**

**Recommendation:** Authorize Director of Utilities release a RFP for District Engineering Services.

**Public Comments:** (Hear public comments prior to Board Action) M\_\_\_\_\_S\_\_\_\_\_V\_\_\_\_\_

- 7. Discuss and authorize the Director of Utilities to purchase and install an air conditioner for the server room/ office at the Machado WWTF in an amount of \$5452.00. (Dodds)**

**Recommendation:** Authorize Director of Utilities purchase and install an air conditioner at the Machado WWTF.

**Public Comments:** (Hear public comments prior to Board Action) M\_\_\_\_\_S\_\_\_\_\_V\_\_\_\_\_

- 8. Continued discussion on the Fire Department Temporary Housing unit (Young)**

**Recommendation:** Discuss the status and next steps for the Fire Department Temporary Housing unit

**Public Comments:** (Hear public comments)

**9. Discussion on status of Machado Wastewater Treatment Facility expansion and aeration upgrade project (Dodds)**

**Recommendation:** Discuss the status and next steps of the Machado Wastewater Treatment Facility expansion and aeration upgrade projects.

**Public Comments:** (Hear public comments)

**XII. BOARD COMMENT:**

This section is intended as an opportunity for Board members to make brief announcements, request information from staff request future agenda item(s) and/or report on their own activities related to District business. No action is to be taken until an item is placed on a future agenda.

**XIII. ADJOURNMENT TO NEXT REGULAR MEETING**

**ATTEST:**

STATE OF CALIFORNIA            )  
COUNTY OF SAN LUIS OBISPO   ) ss.  
COMMUNITY OF SAN MIGUEL    )

**I, Tamara Parent, Board Clerk of San Miguel Community Services District, hereby certify that I caused the posting of this agenda at the SMCSD office on August 23, 2021**

**Date: August 23, 2021**

Raynette Gregory, President- Board of Directors  
Rob Roberson, Fire Chief/Interim General Manager  
Tamara Parent, Board Clerk



MONSOON CONSULTANTS

P.O. Box 151 San Luis Obispo, CA 93406  
(805) 476-6168 [www.monsoonconsultants.com](http://www.monsoonconsultants.com)

**SAN MIGUEL COMMUNITY SERVICES DISTRICT**

Rob Roberson, Interim General Manager  
Post Office Box 180  
San Miguel, CA 93451  
(805) 467-3300

**BOARD OF DIRECTORS**

Raynette Gregory, President  
Anthony Kalvans, Vice President  
Hector Palafox  
Ashley Sangster  
Ward Roney

**Re: DISTRICT ENGINEER REPORT – AUGUST 2021**

Board Members:

The following is a summary of the activities performed and the status of relevant issues which pertain to the duties and responsibilities of this position:

**OVERVIEW**

The District produced approximately 9.85 MGAL (13,171 CCF) of water during the month of July 2021. This represents an increase of approximately 5.1% from the prior month. Compared to 1-year ago, the volume of water produced in July 2020 was approximately 10.72 MGAL, which represents a decreased production of 8.1%. There are no significant problems with the District's infrastructure at the time this report was prepared.

**MEETING PARTICIPATION**

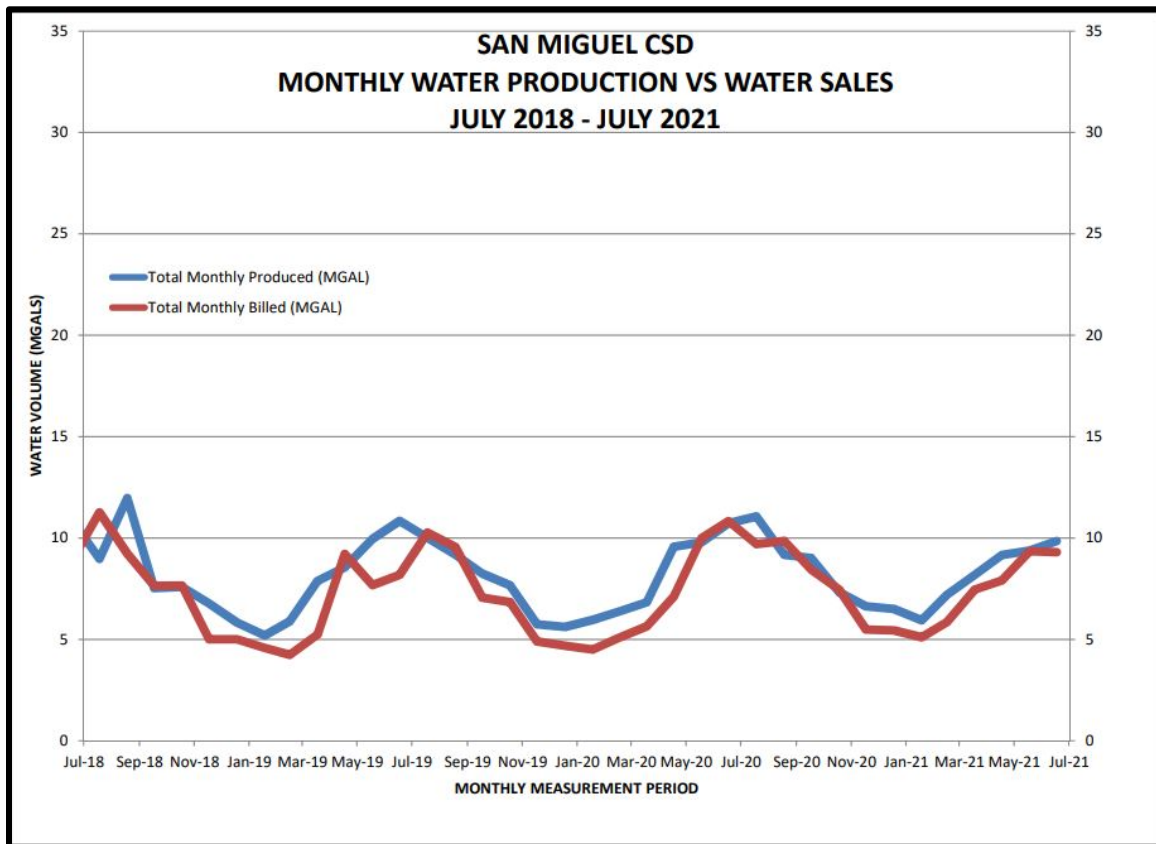
A summary of relevant issues that were discussed during meetings attended by the DE during the previous month are summarized below. (Note that routine meetings with SMCS staff are not included):

1. July 21, 2021: The DE attended the Paso Robles Groundwater Basin GSA Cooperative Committee meeting which was held in a virtual format.
2. July 23, 2021: The DE and Director of Utilities participated in a TEAMS meeting with Dudek staff to discuss WWTF project CEQA status
3. July 27, 2021: The DE and Director of Utilities participated in a TEAMS meeting with SLO County Health Department staff to discuss WWTF project status and the anticipated requirements from the SLO County Health Department.

4. August 5, 2021: The DE and Director of Utilities attended a meeting with Cloacina in Arroyo Grande to review their MBR bid and discuss WWTF project schedule and status.
5. August 16, 2021: The DE and Director of Utilities participated in a TEAMS meeting with SLO County Planning, Building and Public Works Departments staff to discuss WWTF project status and the anticipated requirements from the SLO County with regard to a new Conditional Use Permit (CUP).

**WATER PRODUCTION HISTORY**

The following graph depicts the water production and sales for the proceeding 36-months.



**CAPITAL IMPROVEMENT PROGRAM**

The following is a summary of the principal activities that were related to the Capital Improvements Program during the previous month:

1. Wastewater Treatment Plant Renovation / Upgrade & Recharge Basin Design Phase: The District has received and executed an agreement with the DWR Waterboard for funding in the amount of \$250,000 for Planning & Design for the Wastewater Treatment Plant renovation. The Board approved an agreement with Monsoon Consultants to provide project management and design services for this project at their October 2019 Board meeting. On April 13, 2020, the DE and the Director of Utilities met with representatives of the USDA to discuss the project and potential financing terms. Based on comments received from the USDA, the DE and staff have been diligently working on the preparation of the documents required to apply for project financing to the USDA. The revised Preliminary Engineering Report (PER) was completed and sent to the USDA and

Waterboard on May 6, 2021. On August 11, 2021, The DE submitted a revised DRAFT PER to the Director of Utilities for review. The revision addresses issues that were identified in discussions with the USDA and RWQCB. The USDA application documents will include, among other items, the CEQA / NEPA documentation currently being prepared by Dudek.

On April 23, 2020, the District awarded a contract to Dudek to provide environmental services to address the NEPA / CEQA requirements of the project. Dudek has initiated the work and performed the initial biological field survey on June 11, 2020. As of the date of this report, Dudek has completed rare plant field survey and San Joaquin kit fox habitat assessment which was incorporated into GIS dataset to support preparation of technical report and initial study/mitigated negative declaration. On October 24, 2020, Dudek submitted the DRAFT Archeological Report to the District for review. On July 7, 2021 Dudek delivered a preliminary and incomplete DRAFT CEQA/NEPA Environmental Document. The DE and Director of Utilities have reviewed the subject document and responded to Dudek with comments and revision requirements. On July 30, 2021 Dudek delivered an ADMINISTRATIVE DRAFT CEQA/NEPA Environmental Document. District staff have reviewed the subject document and responded to Dudek with comments and revision requirements.

The Director of Utilities submitted a Funding Inquiry Form to the CALIFORNIA FINANCING COORDINATING COMMITTEE (CFCC). This submittal represents the initial step in soliciting additional grant and loan funding from a variety of agencies and programs within the State. On May 5, 2020, the DE submitted a Pre-Application to the DWR for \$14,500,000 in funding through the Small Community Funding Program.

A Request for Proposals (RFP) and Technical Specifications was prepared for the Pre-Engineered Package Membrane Bioreactor System and was advertised for cost proposal solicitation. The Engineers Estimate for the MBR System, including the Pre-Engineered Package integrated Membrane Bioreactor (MBR) / UV Disinfection / Sludge Dewatering treatment system, with factory testing, installation, start-up, commissioning, and operator training is approximately \$6,800,000. The DISTRICT is working with the USDA and DWR to secure funding for the overall project, including the work to be performed in conjunction with MBR System.

The DISTRICT received one (1) cost proposal on June 11, 2021 in response to the RFP. The cost proposal was received from Cloacina, LLC, which is based in Arroyo Grande, CA. The DE and Director of Utilities are in the process of reviewing the proposal and pending completion of that process, will present our findings and recommendations to the Board.

In anticipation of the new WWTF becoming operational, the Director of Utilities is making preparations for upgrading the wastewater treatment plant operator licensing to meet the state requirements. Based on state requirements, the WWTF is currently classified as a Class I plant. After the proposed upgrade and expansion project is complete, the plant will be designated as a Class III plant. After the new plant becomes operational, the Chief Plant Operator (CPO) will be required to carry a minimum Grade III license. The CPO is the operator responsible for the overall operation of the WWTP and must be a certified WWTP operator at the same grade of, or higher, than the level of classification of the WWTP. The Designated Operators-in-Charge (DOIC) will be required to carry a minimum Grade II license. The DOIC is a certified operator appointed by the CPO to be responsible for the overall operation of a WWTP, including compliance with the applicable waste discharge requirements when the CPO is unable to carry out the responsibilities of the position. The DOIC reports directly to the CPO.

2. DISTRICT Fuel System Upgrade: The Director of Utilities has initiated an analysis of the adequacy of the existing fuel storage and dispensing system in anticipation of the future WWTF expansion and operational resiliency considerations, along with other potential



changes in the operations of the DISTRICT. At present, the DISTRICT's existing fueling system is located at the WWTF and is comprised of a single 400-gallon diesel storage tank with associated spill protection and dispensing equipment. Currently, there is no storage of gasoline at the DISTRICT. The diesel is used to fuel some of the DISTRICT's rolling stock and to store the fuel for the existing Mission Gardens lift station generator, which consumes approximately 82 GPD diesel, and the existing WWTF generator which consumes approximately 106 GPD diesel. In an event in which both backup generators would need to be brought online under existing conditions, there would be sufficient diesel stored to operate approximately 2-days, not accounting for any rolling stock fuel needs. Increasing the diesel tank size to 1000 gallons would increase the duration that both existing generators could be operating simultaneously from approximately 2-days to approximately 5-days.

Based on current estimates of back-up power requirements for the new WWTF, it is anticipated that the plant will require a 600 KW generator. A diesel fueled generator of this size will require approximately 880 GPD. To provide for a minimum 24-hours of back-up generator supplied power, there would be a minimum diesel storage requirement of approximately 1000 gallons.

### **DEVELOPMENT**

The following is a summary of private development projects that are either in-progress or planned that staff is currently reviewing or inspecting during construction:

- a) Tract 2779 (Nino - 34 lots) –New home construction has been completed all thirty four (34) lots and the project is complete.
- b) Tract 2647 Hastings The Bluffs (12-Lots) - The developer has completed construction on the initial five (5) residences.
- c) Tract 2723 Mountain View - The developer has applied to the District for this development which will include thirty-eight (38) lots. The Director of Utilities and the DE have reviewed the initial submittal of the improvement plans for the project and have provide the plan check comments back the Developer. This project is currently on hold.

### **GROUNDWATER SUSTAINABILITY AGENCY**

At the July 21, 2021 Paso Robles GW Basin GSA Cooperative Meeting, the Cooperative Committee requested that the City of Paso Robles solicit a sole source proposal from Todd Groundwater to provide Technical Support to Paso Robles Basin Cooperative Committee in Providing Corrective Actions to the GSP in response to identified deficiencies by the DWR. A proposal was received from Todd Groundwater on August 10, 2021 with a corresponding fee estimate of \$82,186.

I would like to take this opportunity to thank each of you and District staff that will review the information contained in this report. If there are any questions or you wish to discuss, please do not hesitate to contact me.

Respectfully Submitted,  
**MONSOON CONSULTANTS**

*Blaine T. Reely*

Blaine T. Reely, Ph.D., P.E.  
President, Monsoon Consultants

August 17, 2021  
Date



# San Miguel Community Services District

## UTILITY STATUS REPORT

7-17-2021 Thru 8-20-2021

AGENDA ITEM# IX.7

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### Well Status:

- Well 4 is partially operational – Well Level 72.8 6/12/2021
- Well 3 is fully operational – Well Level 63.4 6/12/2021
- SLT well is in service
- Total combined average running hours per day (11.53)  
(threshold for stage 1 resource severity level determination is 17 hours per day)

### Water System status:

Water leaks this month: 1 This calendar year: 6

Water related calls through the alarm company after hours this month: 2 This Year: 6

- Major failure on alley main at 12<sup>th</sup> street. Repaired bad pipe, waiting on board approval for road repair contract.
  - Estimated District cost \$8,000 to repair, Proposal for \$23,853 to repair pavement  
Total estimated Cost of this repair ~\$32,000
- Working on audit of the cross-connections within the District and verifying compliance with state law, and the District Water Code. Some residents and businesses will be required to install cross-connection control devices.

### Sewer System status:

Sewer overflows this month: 0 this year: 0

Sewer related calls through the alarm company this month: 0 This Year: 0

- Video inspection of all sewer lines has started.

### WWTF status:

- .

### State Water Resources Control Board (SWRCB):

- Working with SWRCB to apply for funding to cover past due amounts in excess of 60 days, through California Water and Wastewater Arrearage Payment Program

### Billing related activity:

- **Total active accounts (at the time of this report)**
  - 940 water accounts
  - 814 wastewater accounts
- **Overdue accounts (at the time of this report)**
  - 23 accounts 60 days past due
- **Service orders (for prior month)**
  - 48 service orders issued and completed

### Lighting status:

- Working with PGE Rep to get the remainder of the PGE owned streetlights converted to LED.
- Photo cell for the new street light came but was the wrong one, new one is on order.

### **Landscaping:**

- .

### **Solid Waste:**

Mattress recycling

- Mattresses are accepted by appointment only, and only on Fridays between 8 am and 11 am.
- Working with the Mattress Recycling Council to convert our program to be able to receive funding to offset some of the program cost.

E-Waste collection

- E-waste is accepted on Fridays between 8 am and 11 am.

Working with IWMA on Household Hazardous Waste (HHW) collection in San Miguel

Working with IWMA and San Miguel Garbage on a proposed amendment to comply with SB 1383.

### **Project status:**

- Well arsenic treatment
  - Working with Awalt Engineering and Monsoon Consultants to identify a viable option for treating arsenic at the District wells.
  - Working to determine a funding mechanism for arsenic treatment.
- Generator installation is in progress, generators are on order.
  - Well generators are anticipated to arrive in November

### **Board requested information:**

- .

### **WWTP expansion and Aerator Upgrade**

- MBR bids were due June 11<sup>th</sup>, 1 proposal was received and reviewed by staff.
- DE and DOU met with USDA on June 15<sup>th</sup> about funding.
- DE and DOU had a meeting with County about updating our CUP for the WWTF.
- Draft environmental report sent to USDA for review

### **Staffing**

- One vacant position.
  - WWTF Operator Lead, which will remain vacant until we are closer to WWTF construction.
- One operator is taking his wastewater operator exam to increase his license level.

### **SLO County in San Miguel:**

- County has declared that the County is in a Drought, this follows the States proclamation of a near statewide Drought.

### **Caltrans in San Miguel:**

- .

### **Rain in San Miguel:**

<u>2018</u>	<u>9"</u>
<u>2019</u>	<u>12.5"</u>
<u>2020</u>	<u>.50"</u>
<u>2021</u>	<u>.68"</u>

*Kelly Dodds*

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Kelly Dodds  
Director of Utilities  
Date: August 20, 2021

# San Miguel Community Services District Board of Directors Meeting



## Staff Report

August 26<sup>th</sup>, 2021

AGENDA ITEM: IX 8

**SUBJECT: Fire Chief & Asst Fire Chief Report for July 2021**

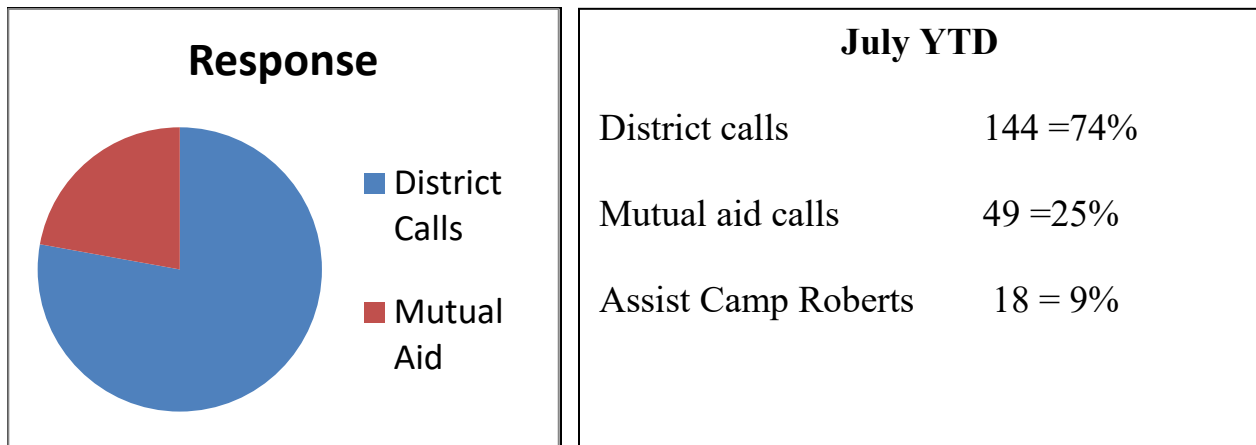
**STAFF RECOMMENDATION:** Receive and File Monthly Reports for the Fire Department

**INCIDENT RESPONSE:**

- Total Incidents for July 2021 **31**
- Average Calls for per 7 Months in 2021 **27.5**
- Total calls for the year to date **193**

Emergency Response Man Hours in July = 67	Total	543
Stand-By Man Hours for July = 13	Total	<u>189</u>
	<b>Total hr.</b>	<b>732</b>

Emergency Response Man Hours = **2.5 hr.** Per call for July    **2.8** Per call for the year  
 Stand-By Average per Call = **.4** Per call for, July    **.9** Per call for the year





## Equipment:

- All equipment is in service.

## Activities:

- Actively working within the COVID standards
- Working on the Temporary Housing Unit Project.
  - Soil samples for the temporary housing project came back and the site is suitable for our project.
- E-8668 Responded to the River Fire outside Fresno on July 12<sup>th</sup> they were moved to the Dixie Fire North of Sacramento on July 17<sup>th</sup>, They returned to the District on August 4<sup>th</sup> after spending 23 days on the Fire Line, The Crew consisted of Scott Young, Jose Ventura and Robert Rojas. Thank You for that commitment.

## July

<u>Date</u>	<u>Subject matter</u>	
1 <sup>st</sup>	4 <sup>th</sup> of July Coverage	
2 <sup>nd</sup>	4 <sup>th</sup> of July Coverage	
3 <sup>rd</sup>	4 <sup>th</sup> of July Coverage	
July 4 <sup>th</sup>	coverage 4 days	
7	4th of July Coverage	
14	Medical Heat Related Injuries, Patient Assessment	
21	ICS Operations / Fire Response	
28	Association Meeting	
<u>Date</u>	<u>Other activities</u>	<u>Time</u>
5 <sup>th</sup>	Cleanup	0800-1200

## Information:

- Fire Prevention Report.

## Prepared By:

*Rob Roberson | Scott Young*

**Rob Roberson, Fire Chief & Scott Young, Assistant Fire Chief**

# FIRE EQUIPMENT

## 2021 MILEAGE / FUEL REPORT

IX-8

Mileage/ Fuel	January		February		March		April		May		June		Total		Avg. MPG
Diesel	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	
E-8696	32	17	115	17	50	40	9	0	37	0	26	17	269	91	3.0
E-8668	67	40.2	30	11	30	20	64	14	162	62	133	26	486	173	2.8
P-8651	67	0	47	24	118	12.4	51	13	145	21	27	0	455	70.4	6.5
<b>6 Month Total</b>												<b>1210</b>	<b>335</b>	<b>3.6</b>	
Gas	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	
U-8630	7.7	0	920	70	931	66	874	63.8	666	34	31	0	3663.5	234	15.7
C-8601	663	63	389	36	399	33	291	32.6	359	25	300	21	2401	211	11.4
C-8600	368	37	216	22	296	18	268	40	347	42	278	26	1773	185	9.6
<b>6 Month Total</b>												<b>7837.5</b>	<b>629</b>	<b>12.5</b>	

Mileage / Fuel	July		August		September		October		November		December		Total		Avg. MPG
Diesel	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	
E-8696	71	17											340	108	3.1
E-8668	2056	734											486	173	2.8
P-8651	105	0											560	70.4	7.2
<b>12 Month Total</b>												<b>1386</b>	<b>352</b>	<b>3.9</b>	
Gas	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	mi.	gal.	
U-8630	205	12											3868.5	246	15.7
C-8601													2401	211	11.4
C-8600	531	18											2304	203	11.3
<b>12 Month Total</b>												<b>8573.5</b>	<b>659</b>	<b>13.0</b>	

OC

YTD 2021 Total	mi.	gal.	Avg. MPG
<b>Diesel</b>	<b>1386</b>	<b>352</b>	<b>3.9</b>
<b>Gas</b>	<b>8573.5</b>	<b>629</b>	<b>13.6</b>

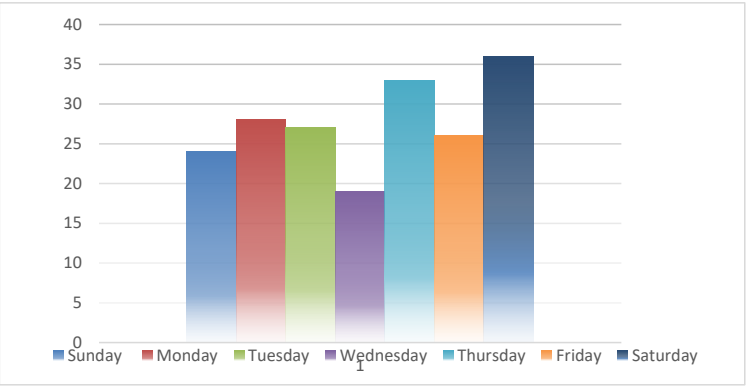
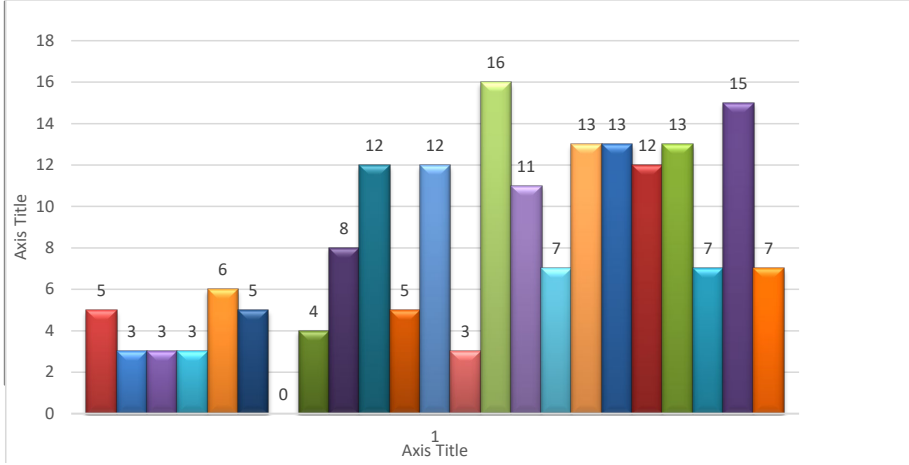



# Call per time of day and day of the week 2021

	After Hours						CSD Work Hours										Off Hours						Total			
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00
Sunday				1	1	1		1	1	3				2	1		1	3	1	3	1	4			24	12%
Monday		1	2						2	4			1	2	2	2	3	1	5	1			1	1	28	14%
Tuesday				2						3			4	1	3		1	2		4	3	2	1	1	27	13%
Wednesday	1		1					1		1			1	4		1	3	3		2	1				19	9%
Thursday	1	1			2	1			1	1	2	5	1	4	1	1	3		1		1	4	1	2	33	17%
Friday	1	1			2	1			2		2	1	1	1	2		1		3	2		2	1	2	26	13%
Saturday	2				1	2		2	2		1	1	0	2	3	1	1	4	2	1	1	3	3	4	36	18%
Hour Total	5	3	3	3	6	5	0	4	8	12	5	12	3	16	11	7	13	13	12	13	7	15	7	10	193	
	2%	1%	1%	1%	3%	2%	0%	2%	4%	6%	2%	6%	1%	8%	5%	3%	6%	6%	6%	6%	3%	7%	3%	5%		

Total calls during CSD Work Hours	58	30%
Total calls during Off time and weekends	135	69%
After Hours calls 22:00 to 06:00	42	21%
Total Weekend Calls	60	31%
Total Calls Monday thru Friday	133	68%

8am to 8pm 35 18%



	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		TOTAL		
	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	District	Mutual Aid	
Structure Fires	2	0	0	2	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	
Veg. Fires	0	1	0	0	0	0	0	0	0	1	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	3	5
Vehicle Fires	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Misc. Fires	0	0	0	0	0	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Illegal Burning	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Vehicle Accidents	1	1	1	0	2	2	0	0	1	0	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0	9	8
False Alarms	2	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Hazardous Condition	3	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Hazardous Materials	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Standby	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pub.Svc.Asst.	2	0	3	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Medical Aids	12	3	11	5	18	1	16	2	17	4	8	9	17	6	0	0	0	0	0	0	0	0	0	0	0	99	30
<b>Call TOTALS</b>	25	5	16	7	28	3	17	4	22	6	13	16	23	8	0	0	0	0	0	0	0	0	0	0	0	144	49
	<b>30</b>		<b>23</b>		<b>31</b>		<b>21</b>		<b>28</b>		<b>29</b>		<b>31</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>193</b>		
<i>CPR</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mutual Aid SLO/Mon.	3	0	7	0	2	0	1	1	6	0	15	0	8	0	0	0	0	0	0	0	0	0	0	0	0	43	0
Camp Bob Asst.	1		1		0		0		1		14		1		0		0		0		0		0		18		
Average Calls Per	<i>Month</i>		27.0	<i>Day</i>	0.9	<i>SLO Co. MA</i>					<b>42</b>	<i>Montrey Co. MA</i>					<b>1</b>	<i>CPR TOTAL</i>					<b>1</b>				

# San Miguel Fire Department

San Miguel, CA

This report was generated on 8/19/2021 3:03:52 PM



## Daily Log Items per Personnel for Activity Code for Personnel

Activity Codes: All Activity Codes | Personnel: Young, Scott P | Start Time: 00:00 | End Time: 23:00 | Start Date: 07/01/2021 | End Date: 07/31/2021

START	END	LOG TYPE	APPARATUS	NOTES	HOURS
07/01/2021 08:30:00	07/01/2021 22:30:00	DAYBOOK	SMF 1		14.00
07/01/2021 09:00:00	07/01/2021 10:00:00	DAYBOOK	8601	Meet with Locatelli	1.00
07/01/2021 12:00:00	07/01/2021 22:00:00	DAYBOOK	SMF 1	Fireworks sales begin	10.00
07/02/2021 08:00:00	07/02/2021 22:00:00	DAYBOOK	SMF 1		14.00
07/02/2021 10:00:00	07/02/2021 22:00:00	DAYBOOK	SMF 1	Fireworks sales	12.00
07/03/2021 08:30:00	07/03/2021 22:30:00	DAYBOOK	SMF 1		14.00
07/03/2021 10:00:00	07/03/2021 22:00:00	DAYBOOK	SMF 1		12.00
07/04/2021 08:30:00	07/05/2021 08:30:00	DAYBOOK	SMF 1		24.00
07/04/2021 10:00:00	07/04/2021 23:59:00	DAYBOOK	SMF 1		13.98
07/05/2021 08:30:00	07/06/2021 08:30:00	DAYBOOK	SMF 1		24.00
07/06/2021 08:30:00	07/06/2021 22:30:00	DAYBOOK	SMF 1		14.00
07/06/2021 11:30:00	07/06/2021 11:30:00	DAYBOOK	SMF 1	Application and fees paid for 8742 Magdalena DR	0.00
07/06/2021 18:00:00	07/06/2021 22:00:00	DAYBOOK		Special Operations Training: Auto Extracation Lead Instructor: Young, Scott P	4.00
07/07/2021 08:30:00	07/07/2021 17:00:00	DAYBOOK	SMF 1		8.50
07/08/2021 08:30:00	07/08/2021 17:00:00	DAYBOOK	SMF 1		8.50
07/11/2021 14:00:00	07/12/2021 08:30:00	DAYBOOK	8601		18.50
07/12/2021 08:30:00	07/13/2021 08:30:00	DAYBOOK	SMF 1		24.00
07/12/2021 11:00:00	08/04/2021 20:30:00	DAYBOOK	E8668	River & Dixie Fire Assignment	561.50
07/13/2021 08:30:00	07/14/2021 08:30:00	DAYBOOK	SMF 1		24.00
<b>Total Hours for: Young, Scott P</b>					<b>801.98</b>
<b>Total of all Personnel Hours</b>					<b>801.98</b>

Lists the Daily Log items, grouped by Personnel, corresponding to the selected Activity Code and Personnel.





## BOARD OF DIRECTORS

Ashley Sangster, President                      Anthony Kalvans, Vice-President  
Ward Roney, Director                              Hector Palafox, Director                      Raynette Gregory, Director

### REGULAR MEETING MINUTES

**6:30 P.M. Closed Session 7:00 P.M. Opened Session**  
**SMCSD Boardroom 07-22-2021**

I.	<b>Call to Order:</b>	6:30 PM
II.	<b>Pledge of Allegiance:</b>	Kalvans after closed session
III.	<b>Roll Call:</b>	<i>Sangster, Kalvans, Gregory</i> ABSENT: Roney, Palafox

IV.	<b>Approval of Regular Meeting Agenda:</b>				
	Motion by:	Director	Kalvans		
	Second by:	Director	Sangster		
	Motion:	Voice vote			
	<b>Board Members</b>	<b>Ayes</b>	<b>Noes</b>	<b>Abstain</b>	<b>Recuse</b>
	A. Sangster	X			
	A. Kalvans	X			
	H. Palafox				X
	R. Gregory	X			
	W. Roney				X
	<b>Public Comment for items on closed session agenda</b>				
	NONE				

V.	<b>ADJOURN TO CLOSED SESSION:</b>	Time: <u>6:31 PM</u>
A.	<b>CLOSED SESSION AGENDA:</b>	
1.	<b>CONFERENCE WITH DISTRICT GENERAL COUNSEL-ANTICIPATED LITIGATION</b> Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: White Oak	
2.	<b>CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION</b> Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Section 54956.9: Confidential Complainant	

VI.	<b>Call to Order for Regular Board Meeting/Report out of Closed Session 7:00 PM</b>	
	<b>Time:</b>	<u>7:04 PM</u>
	<b>Pledge of Allegiance:</b>	Kalvans <a href="#">Video part 1/5 time: 00:04</a>
1.	Report out of closed session by District General Counsel (E Dervin- WhiteBrenner, LLP)	
1.	Direction was given to staff	

VII.	<b><u>Public Comment and Communications for items not on the Agenda:</u></b> Board Clerk read aloud Public Comment form Laverne Buckman (SM District Resident)- Comment re: June and July Financial report, Attorney Fees for District, and Possibility for Full-Time General Manager Owen Davis (SM District Resident)- Spoke about Director of Utilities using district vehicles, Public Records Request- 1 Incomplete, Fuel tanks, credit card charges, the Project on 10th and 11th Street. - Board Response by AS: Reason for Kelly's truck daily use- liability, can't have back and forth Paola Freeman (Monterey County Resident) – Read aloud petition for new full-time General Manager (see record on file.)	<a href="#">Video part 1/5 time: 00:59</a>
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VIII.	<b>Special Presentations/Public Hearings/Other:</b> NONE	
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IX.	<b>Staff &amp; Committee Reports – Receive &amp; File:</b>	<a href="#">Video part 1/5 time: 17:10</a>
	<b>Non-District Reports:</b>	
1.	San Luis Obispo County Sheriff Caron Sherriff Report -AS read aloud- June 2021 179 Total Calls for Service, 3% Uptick in Overall Calls (record on file)	VERBAL
2.	Camp Roberts—Army National Guard (Mitten)	NONE
3.	Community Service Organizations Public Comments:	NONE NONE
	<b>District Staff &amp; Committee Reports:</b>	
4.	Interim General Manager (Mr. Roberson) Rob GM read aloud- Moving Agenda Items re: Water Treatment Facility & 2021 Financials to August Meeting; Staff Report re: Michelle, Rachael (new hire) , Tamara; Covid report- New Cases, Office Restrictions; Switching from Paychecks to Black Mountain; IT Security; Retention Policy; Board Training; Sold 8687 Fire Engine, Engine 8668 On Fire with 3 Man Crew, District Coverage, Spending on HR Necessary Public Comments:	VERBAL <a href="#">Video part 1/5 time: 18:55</a> NONE
5.	District General Counsel (Mr. White) District Counsel Erin Dervin spoke: Regards to LAFCO Annexing/ Creating Community Facilitys District, County or Lafco would be in Control, State Aid for Utilities (Consolidated Appropriations Act of 2021) - Board response by AK: Follow up with LAFCO/County Involvement Public Comments:	VERBAL <a href="#">Video part 1/5 time: 28:30</a> NONE
6.	District Engineer (Dr. Reely) Report Submitted as Written Public Comments:	Report Attached <a href="#">Video part 2/5 time: 00:01</a> NONE
7.	Director of Utilities (Mr. Dodds) Director of Utilities Kelly Dodds spoke: Well Status (Average 11 Running Hours), Resource Severity Stage 1 Determination (17 hours), Voluntarily ask District customers to curb water use, install additional wells, Stages 1, 2, and 3 of determination, homes with more usage may need to cut back on usage, Drought Tolerant Landscaping, think long term about long term cutbacks, more water sources, aware of L St. leak in alley - Board Response by AS: Requesting/Requiring Water Usage Conservation - Board Response by AK: Tips for Conservation - Board Response by RG: Does County have program for regulating lawn usage KD Responded: Cash for Grass Program & Process (www.slocountywwcp.org)  - Public Comment by Gib Buckman (SM District Resident): Asked about water wells that dropped and if they have.	Report Attached <a href="#">Video part 2/5 time: 00:20</a>

- Public Comment by Owen Davis(SM District Resident): \$750,000 SLT Well, Run Pipe through Cagliero Property, Run Well 48hrs, Would like Well Tested before new Well, voiced that rates keep going up and doesn't like it.

KD Responded: Wells have dropped normal amounts (1.5ft) and have come back, Water Pumping at the SLT well for 2hrs, working with State, reduce Arsenic level

8. Fire Chief (Chief Roberson) Report Attached [Video part 2/5 time: 20:32](#)  
 As submitted  
 Public Comments: NONE

**X. CONSENT CALENDAR:** [Video part 2/5 time: 20:55](#)

AK asked to pull item 1. Pg. 18 stated AK voted but AK was absent  
 Public Comment: None

1. **Review and Approve Board Meeting Minutes** [Video part 2/5 time: 22:20](#)

a) 6-24-2021 Regular Meeting Minute

**Motion by:** Director Sangster  
**Second by:** Director Kalvans  
**Motion:** 6-24-2021 Regular Meeting Minutes approve as amended

Board Members	Ayes	Noes	Abstain	Recuse	Absent
A. Sangster	X				
A. Kalvans	X				
H. Palafox					X
R. Gregory	X				
W. Roney					X

2. Approval of **RESOLUTION No. 2021-18** approving a rate increase from \$5.22 per HCF to \$5.38 per HCF for construction hydrant meter usage to be retroactive to July 16th, 2021

[Video part 2/5 time: 22:50](#)

Board Comment: None  
 Public Comments: None

**Motion:** by Director Kalvans to approve RESOLUTION No. 2021-18 by voice vote

Board Members	Ayes	Noes	Abstain	Recuse	Absent
A. Sangster	X				
A. Kalvans	X				
H. Palafox					X
R. Gregory	X				
W. Roney					X

**XI. BOARD ACTION ITEMS:** [Video part 2/5 time: 23:30](#)

1. **Review, Discuss, Receive and File the Enumeration of Financial Report for May 2021** (Dodds)

- A. Claims Detail Report MAY (tabled from June meeting and revised)  
 i. Claims Detail Report APRIL (tabled from June meeting and revised)

Board Comment by AS: Pg. 41 April US Bank statement not there, corrected AS actually wanted March

- Response by KD: Pg. 63 April was paid in May, discussion ensued about the need to have USBank March bill. And will be brought back for review on 8/19/21.

Report Submitted Same- Expenses are as Shown- Final Payment for 11th St Waterline Project

- B. Statement of Revenue Budget vs Actuals (tabled from June meeting)
- C. Rev Budget vs Actual Summary (tabled from June meeting)
- D. Statement of Expenditures Budget vs Actual (tabled from June meeting)
- E. Cash Report (tabled from June meeting)

**Board Comment:**

AS asked about Expense Page 63 CDW- both routers are for MDC project for the engines  
 - KD- through our IT provider; if we need something we source. Paying directly/save mark-up.

**Public Comments:**

Owen Davis (SM District Resident): Why did we pay lawyer \$30,000 month after month. Voiced that it was a lot of money. What was it used for?

- AS responded that it is a lot of money, they do general legal, research, public records requests and other legal issues.

Owen Davis: Asked how much for research?

Paola Freeman (Monterey County Resident): voiced that she thought it was \$3,000 and the meeting was cancelled.

**Motion by:** Director Kalvans

**Second by:** Director Sangster

**Motion:** To Receive and File the Enumeration of Financial Report for May 2021. And bring back March.

Board Members	Ayes	Noes	Abstain	Recuse	Absent
A. Sangster	X				
A. Kalvans	X				
H. Palafox					X
R. Gregory	X				
W. Roney					X

[Video part 3/5 time 06:59](#)

2. **Review and approve contract with Rob Roberson as Interim General Manager/ Fire Chief (Dervin)**

Erin Dervin: White Brenner; Rob Roberson acting as Fire Chief/GM since 2018 contract 2 years exp may 2021, continuance of Exhibits A & B this contract has no benefits and is \$83,978.60 as a dual-position.

**Board Comment:**

- Board Response by AS: A few provisions needed for clarification on job descriptions.
- Response by Mr. White: Exhibits are not necessary for approval and May be adjusted later
- Board Response by RG: Contract job description is changeable

Discussion ensued on changes to job description

**Recommendation:** Approve contract with Rob Roberson as Interim General Manager/ Fire Chief

AS recommend to update Job Description of Contract

AK & RG leave as is

Erin Dervin recommends contract be approved by the Board

**Public Comments:**

Owen Davis (SM District resident): Argues current GM is unqualified and unfair, and has fired an employee without cause. Voiced that he would like contract to be month to month.

District General Council White responds: Comments being made are out of lack of knowledge, and is a district personnel issue discuss in closed session

Motion by Director Kalvans: to approve contract as amended.  
 Second by Director Gregory Motion Fails  
 AS motions for 10 min recess before voting  
 RG: No AK: AS: Retracts motion.

**Motion by:** Director Kalvans  
**Second by:** Director Gregory  
**Motion:** To approve contract Interim General Manager/ Fire Chief

**Status:** Failed. Director Kalvans requests to bring it back to next meeting

Board Members	Ayes	Noes	Abstain	Recuse	Absent
A. Sangster		X			
A. Kalvans	X				
H. Palafox					X
R. Gregory	X				
W. Roney					X

[Video part 4/5 time 10:14](#)

3. **Continued discussion on the Fire Department Temporary Housing unit (Young)**

**Recommendation:** Discuss the status and next steps for the Fire Department Temporary Housing unit

- Rob Responds: ground samples done on July 2nd, results not back, might need to out-source
- AS voice that he would like the timeline for samples and the need them before moving forward. Discussion ensued.

**Public Comments:** NONE

[Video part 4/5 time: 12:50](#)

4. **Discussion on status of Machado Wastewater Treatment Facility expansion and aeration upgrade project (Dodds)**

**Recommendation:** Discuss the status and next steps of the Machado Wastewater Treatment Facility expansion and aeration upgrade projects.

KD reads aloud: Average inflow, In June the plant averaged 143,399gallons per day (72% of hydraulic design capacity) with a max day of 167,486 gallons (84% of hydraulic design capacity), Finally will have results from Dudek, meetings with USDA and Water Board, need the environmental report to move forward with Design and funding, would most likely be paying inflated prices, meetings to go over MBR plan, need terms & conditions for Public Works Projects approved

**Public Comments:**

Owen Davis (SM District Resident): Feels that the treatment plant upgrades and amenities don't need to be updated. The community can't afford it.

**Board Comment:**

AS responded: a lot of the cost is in the MBR

GM Roberson: called point of order: not a discussion

AK- Dudek lack of response is outrageous, costing more with inflation, biggest cost is interest rate, Dudek better have answers

AS- Discussion about liquidated damages ensued from general provisions for contract, timetable does not work because of the delay, how is MBR going? Are we in production schedule? Delivery time?

Discussion ensued about the timeline and public works standard terms and conditions.



<b>XII. BOARD COMMENT:</b>	<a href="#">Video part 4/5 time: 30:28</a>
Meeting Times: 8-19-2021 Special Meeting and 8-26-2021 GSA Regular Meeting. 9-6-2021 Board Training AS: Voiced that he would like to make Financial Officer a contract position	

<b>XIII. ADJOURNMENT TO NEXT REGULAR MEETING</b>	Approx 9:45 PM	<a href="#">Video part 5/5 time: 06:30</a>
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**REVISED RESOLUTION NO. 2021-29**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN MIGUEL COMMUNITY SERVICES DISTRICT APPROVING THE ASSIGNMENT OF BANKING POWERS FOR INTERIM GENERAL MANAGER ROBERT ROBERSON AND FINANCIAL OFFICER MICHELLE HIDO FOR DISTRICT BANK ACCOUNTS AND REMOVING FORMER FINANCIAL OFFICER PAOLA FREEMAN**

**WHEREAS**, the San Miguel Community Services District (“SMCSD”) has bank accounts at Pacific Premier Bank (“PPB”) and Pacific Western Bank (“PWB”) to pay operating expenses; and

**WHEREAS**, SMCSD has previously provided PPB & PWB with an approved resolution stating which SMCSD Board of Directors (“Board”) and staff have been assigned banking powers on behalf of SMCSD; and

**WHEREAS**, the Board desires to grant the Interim General Manager Robert Roberson and Financial Officer Michelle Hido banking powers authority with PPB and PWB, which are necessary for the operation of SMCSD; and

**WHEREAS**, the Board desires to approve assignment of banking powers to SMCSD Interim General Manager Robert Roberson and Financial Officer Michelle Hido; and

**WHEREAS**, the Board of Directors desires to remove assignment of banking powers from former Financial Officer Paola Freeman; and

**NOW THEREFORE, BE IT RESOLVED**, by the Board of SMCSD that Interim General Manager Robert Roberson is hereby granted the following banking powers and authority necessary for the operation of SMCSD:

1. To open any deposit or share account(s) in the name of SMCSD; and
2. To endorse checks and orders for the payment of money; and
3. Withdraw or transfer funds on deposit with PPB and PWB.

**NOW THEREFORE, BE IT FURTHER RESOLVED**, by the Board of SMCSD that Financial Officer Michelle Hido is hereby granted the following banking powers and authority necessary for the operation of SMCSD:

1. To open any deposit or share account(s) in the name of SMCSD, with prior Interim General Manager or SMCSD Board approval; and
2. Withdraw or transfer funds on deposit with PPB and PWB with prior Interim General Manager or SMCSD Board approval

**PASSED AND ADOPTED** by the Board of Directors on a motion of Director \_\_\_\_\_, seconded by Director \_\_\_\_\_ by the following roll call vote:

**AYES:**  
**NOES:**  
**ABSENT:**  
**ABSTAINING:**

The foregoing Resolution is hereby passed and adopted this 26th day of August.

\_\_\_\_\_  
Raynette Gregory,  
President Board of Directors

ATTEST:

APPROVED AS TO FORM:

\_\_\_\_\_  
Rob Roberson, Interim General Manager

\_\_\_\_\_  
Douglas L. White, District General Counsel

\_\_\_\_\_  
Tamara Parent, Board Clerk



## San Miguel Community Services District Board of Directors

August 26<sup>th</sup>, 2021

**AGENDA ITEM: XI - 1**

**SUBJECT: Review the enumeration of Financial Reports for July 2021**

**July 2021 Revenue:** \$189,067.44 (primarily property tax and user fees)

**July 2021 Expenses:** \$309,484.72

### PROJECT EXPENSES

- Monsoon Consultants \$14,007.50 – WWTF project management and designs
- Core & Main \$6,250.64 – Annual meter replacement program

### NORMAL OPERATING EXPENSES

- CalPERS \$9,027.87- for July, includes Annual Unfunded Accrued Liability
- PG&E \$14,207.11– Facilities and Lighting
- JB Dewar \$1,335.45 – Diesel
- Fire Chiefs Assoc of SLO \$2,325.00 – Annual Haz-Mat fee
- SLO County Air \$2,307.40 – Emergency Standby Engines Permits 2021/2022
- PNC Equipment Finance \$47,082.69 – 8668 Engine payment for 2021/2022
- Local IT Experts \$1,201.50 – Monthly IT service, Camera Upgrade and Employee Set-Up
- SLO County Fire \$10,600.00 – Fire Dispatch Service for CY 2020
- SLOACTTC \$6,052.60 – LAFCO 2021/2022
- SDRMA \$26,638.35 – Workers Compensation 2021/2022
- SDRMA \$50,147.71 – Property/Liability annual invoice 2021/2022
- Streamline \$2,400.00 – SMCSO Annual Web Page Hosting 2021/2022

### NOTES:

- Transferred money for the long-term maintenance of the Wastewater Treatment Plant \$100,000.00
- Board Information Request: Total amount expended to RailPros for the 10<sup>th</sup> & 11<sup>th</sup> St waterline replacement project was \$56,025.00

**Recommendation:** Review this enumeration of Financial Reports for July 2021. These items are for information and discussion only. Wait to file after 2020/2021 audit.

**PREPARED BY:**

*Michelle Hido*

Financial Officer

**REVIEWED BY:**

*Rob Roberson*

Interim General Manager/Fire Chief

\* ... Over spent expenditure

Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
7014	19115S	686 AVILA TRAFFIC SAFETY	300.00					
JOB LOCATION- BONITA PL/BENDICT ST								
1	21-2847 TC	05/25/21 TRAFF CNTRL PLN- BONITA/BE	300.00			40 64000	587	10200
<b>Total for Vendor:</b>			<b>300.00</b>					
7060	19138S	596 BAUER COMPRESSORS Inc.	1,039.77					
2021 BA Equipment Service								
1	0000281843	07/19/21 ANNUAL BA PM&AIR TEST/CERT	1,039.77			20 62000	351	10200
<b>Total for Vendor:</b>			<b>1,039.77</b>					
7007	19102S	340 C&N TRACTORS	4.30					
1	52869P	06/22/21 GENERATOR FEET	2.15			40 64000	351	10200
2	52869P	06/22/21 GENERATOR FEET	2.15			50 65000	351	10200
<b>Total for Vendor:</b>			<b>4.30</b>					
7008		87 CALIFORNIA WATER ENVIRONMENT	91.00					
ID: 396350 Collection System Maintenance Grade								
Certification Renewal Fees TDP 2021/22								
1	396350	06/28/21 Cert Renewal Fees TDP 21/22	91.00*			40 64000	715	10200
Valve								
<b>Total for Vendor:</b>			<b>91.00</b>					
7085	-99444E	416 CALPERS	1,600.86					
CalPers 3100 Retirement Classic								
Classic Plan PP 6/28/2021 07/11/2021 Check Date 07/19/21								
1	16460590	07/19/21 CalPers 3100 Retirement	0.00			20 21850		10250
2	16460590	07/19/21 CalPers 3100 Retirement	60.39			30 21850		10250
3	16460590	07/19/21 CalPers 3100 Retirement	530.35			40 21850		10250
4	16460590	07/19/21 CalPers 3100 Retirement	949.73			50 21850		10250
5	16460590	07/19/21 CalPers 3100 Retirement	60.39			60 21850		10250
7086	-99443E	416 CALPERS	1,472.11					
CalPers 26019 Retirement/PEPRA								
PPE 6/28/2021 7/11/2021 Payroll Check Date 07/19/2021								
1	16460598	07/19/21 CalPers 3100 Retirement	468.09			20 21851		10250

08/23/21  
14:57:04

SAN MIGUEL COMMUNITY SERVICES DISTRICT  
Claim Details  
For the Accounting Period: 7/21

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\* ... Over spent expenditure

Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
2	16460598	07/19/21 CalPers 3100 Retirement	12.07			30 21851		10250
3	16460598	07/19/21 CalPers 3100 Retirement	558.68			40 21851		10250
4	16460598	07/19/21 CalPers 3100 Retirement	420.19			50 21851		10250
5	16460598	07/19/21 CalPers 3100 Retirement	13.08			60 21851		10250
7087 -99442E 416 CALPERS			1,987.51					
CalPers 26019 Retirement/PEPRA								
PPE 7/12/2021 7/25/2021 Payroll Check Date 08/2/2021								
1	16460603	08/02/21 CalPers 3100 Retirement	494.65			20 21851		10250
2	16460603	08/02/21 CalPers 3100 Retirement	17.68			30 21851		10250
3	16460603	08/02/21 CalPers 3100 Retirement	761.80			40 21851		10250
4	16460603	08/02/21 CalPers 3100 Retirement	689.24			50 21851		10250
5	16460603	08/02/21 CalPers 3100 Retirement	24.14			60 21851		10250
7088 -99441E 416 CALPERS			1,609.23					
CalPers 3100 Retirement Classic								
Classic Plan PP 7/12/2021 07/25/2021 Check Date 08/02/21								
1	16460594	08/02/21 CalPers 3100 Retirement	0.00			20 21850		10250
2	16460594	08/02/21 CalPers 3100 Retirement	60.81			30 21850		10250
3	16460594	08/02/21 CalPers 3100 Retirement	534.12			40 21850		10250
4	16460594	08/02/21 CalPers 3100 Retirement	953.50			50 21850		10250
5	16460594	08/02/21 CalPers 3100 Retirement	60.80			60 21850		10250
7089 -99440E 416 CALPERS			12.31					
CalPers 3100 Retirement Classic								
Classic Plan PP 04/19/2021 05/2/2021 Check Date 05/10/21								
1	16401001	05/10/21 CalPers 3100 Retirement	0.00			20 21850		10250
2	16401001	05/10/21 CalPers 3100 Retirement	0.62			30 21850		10250
3	16401001	05/10/21 CalPers 3100 Retirement	5.54			40 21850		10250
4	16401001	05/10/21 CalPers 3100 Retirement	5.54			50 21850		10250
5	16401001	05/10/21 CalPers 3100 Retirement	0.61			60 21850		10250
7090 -99439E 416 CALPERS			124.80					
CalPers 1959 Survivor Billing Rate Plan: 4680								
Classic Plan FY 2020/2021								
1	16470301	06/24/21 CalPers 3100 Retirement	0.00			20 21850		10250
2	16470301	06/24/21 CalPers 3100 Retirement	6.24			30 21850		10250

\* ... Over spent expenditure

Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
3	16470301	06/24/21 CalPers 3100 Retirement	56.16			40 21850		10250
4	16470301	06/24/21 CalPers 3100 Retirement	56.16			50 21850		10250
5	16470301	06/24/21 CalPers 3100 Retirement	6.24			60 21850		10250
7091 -99438E 416 CALPERS			1,387.17					
CalPers 4680 Annual Unfunded Accrued Liability Classic Plan 06-30-19 Actuarial Valuation								
1	16474915	07/01/21 CalPers 3100 Retirement	0.00			20 21850		10250
2	16474915	07/01/21 CalPers 3100 Retirement	69.34			30 21850		10250
3	16474915	07/01/21 CalPers 3100 Retirement	624.24			40 21850		10250
4	16474915	07/01/21 CalPers 3100 Retirement	624.24			50 21850		10250
5	16474915	07/01/21 CalPers 3100 Retirement	69.35			60 21850		10250
7092 -99437E 416 CALPERS			332.80					
CalPers 1959 Survivor Billing lvl 4 FY 2020/2021 26019								
1	16401035	05/10/21 CalPers 3100 Retirement	68.22			20 21851		10250
2	16401035	05/10/21 CalPers 3100 Retirement	6.66			30 21851		10250
3	16401035	05/10/21 CalPers 3100 Retirement	126.46			40 21851		10250
4	16401035	05/10/21 CalPers 3100 Retirement	124.80			50 21851		10250
5	16401035	05/10/21 CalPers 3100 Retirement	6.66			60 21851		10250
7093 -99436E 416 CALPERS			501.08					
CalPers Annual Unfunded Accrued Liability Actuarial Valuation for Rate Plan 26019								
1	16474924	07/01/21 CalPers 3100 Retirement	102.72			20 21851		10250
2	16474924	07/01/21 CalPers 3100 Retirement	10.02			30 21851		10250
3	16474924	07/01/21 CalPers 3100 Retirement	190.41			40 21851		10250
4	16474924	07/01/21 CalPers 3100 Retirement	187.91			50 21851		10250
5	16474924	07/01/21 CalPers 3100 Retirement	10.02			60 21851		10250
<b>Total for Vendor:</b>			<b>9,027.87</b>					
7027 19116S 67 CHARTER COMMUNICATIONS			324.94					
Acct# 8245-10-105-0027311 Spectrum Business Internet/Voice								
Service 07/11/21 ~ 08/10/21								
1	071121	07/11/21 Internet/Voice JULY	97.48			20 62000	375	10200

\* ... Over spent expenditure

Claim/ Line #	Check #	Vendor #/Name/ Invoice #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
2	071121	07/11/21 Internet/Voice JULY	113.73			40 64000	375	10200
3	071121	07/11/21 Internet/Voice JULY	113.73			50 65000	375	10200
7050	19139S	67 CHARTER COMMUNICATIONS	149.97					
Acct# 8245 10 105 0040553 1765 Bonita Treatment Plant								
Service from 07/18/2021 ~ 08/17/2021								
1	4055307182	07/18/21 Internet/Voice WWTP 7/18-8	149.97			40 64000	375	10200
<b>Total for Vendor:</b>			<b>474.91</b>					
7068	19140S	584 CORE & MAIN LP	6,250.64					
ANNUAL WATER METER REPLACEMENT PROGRAM- 36 METERS								
1	P274681	07/26/21 36- W METERS 21/22 REPLMT PRG	6,250.64			50 65000	525	10200
<b>Total for Vendor:</b>			<b>6,250.64</b>					
7004	19104S	429 COUNTY OF SAN LUIS OBISPO - EH	104.50					
1	IN0132357	06/30/21 Cross Connection Admin Fee	104.50			50 65000	362	10200
<b>Total for Vendor:</b>			<b>104.50</b>					
7055	19142S	654 CULLIGAN WATER	43.20					
1	851928	07/31/21 WATER DELIVERY JULY	21.60			40 64000	305	10200
2	851928	07/31/21 WATER DELIVERY JULY	21.60			50 65000	305	10200
<b>Total for Vendor:</b>			<b>43.20</b>					
7049	19144S	651 DUSTIN PITTMAN	91.00					
1	663695	07/27/21 CWEA Membership Reimbursement	91.00*			40 64000	715	10200
<b>Total for Vendor:</b>			<b>91.00</b>					
7005	19105S	107 FARM SUPPLY	71.82					
Cust No. 61338								
1	220336	07/12/21 Ground Squirrel Trap/Bait	35.91			40 64000	305	10200
2	220336	07/12/21 Ground Squirrel Trap/Bait	35.91			50 65000	305	10200
7045	19118S	107 FARM SUPPLY	192.13					
Cust No. 61338								
1	221173	07/26/21 GLYPHOSTATE 2.5 GAL	151.84			40 64000	353	10200
2	221173	07/26/21 6" SWEEPER NOZZLE	9.43			40 64000	353	10200



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Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
3	221173	07/26/21 3/4" BRASS BALL VALVE	30.86			40 64000	353	10200
		<b>Total for Vendor:</b>	<b>263.95</b>					
7028	19119S	346 FENCE FACTORY RENTALS	80.44					
1	840684	07/13/21 FENCE SLATS- WELL 4	80.44			50 65000	353	10200
		<b>Total for Vendor:</b>	<b>80.44</b>					
7044	19120S	109 FERGUSON ENTERPRISES	2.23					
1	9357147	07/16/21 PLUMBERS PUTTY	2.23			50 65000	353	10200
		<b>Total for Vendor:</b>	<b>2.23</b>					
7017	19121S	112 FGL - ENVIRONMENTAL ANALYTICAL	67.00					
1	182231A	07/20/21 Metals Total As	67.00			50 65000	358	10200
7018	19121S	112 FGL - ENVIRONMENTAL ANALYTICAL	125.00					
1	182319A	07/20/21 Coliform PA	125.00			50 65000	359	10200
7025	19121S	112 FGL - ENVIRONMENTAL ANALYTICAL	67.00					
1	182039A	07/15/21 Metals Total As	67.00			50 65000	358	10200
7026	19121S	112 FGL - ENVIRONMENTAL ANALYTICAL	67.00					
1	181922A	07/15/21 Metals Total As	67.00			50 65000	358	10200
7070	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	67.00					
		Metals Total-As + Sample pickup						
1	182408A	07/30/21 Metals Total As	67.00			50 65000	358	10200
7071	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	225.00					
		COLIFORM P/A & WET CHEM						
1	182154A	07/27/21 COLIFORM P/A & WET CHEM	45.00			50 65000	356	10200
2	182154A	07/27/21 COLIFORM P/A & WET CHEM	45.00			50 65000	357	10200
3	182154A	07/27/21 COLIFORM P/A & WET CHEM	135.00			50 65000	359	10200
7072	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	67.00					
		Metals Total-As + Sample pickup						
1	182155A	07/27/21 Metals Total-As SAMP 6/21/21	67.00			50 65000	358	10200

\* ... Over spent expenditure

Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
7073	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	67.00					
		Metals Total-As + Sample pickup						
1	182320A	07/27/21 Metals Total-As SAMP 7/6/21	67.00			50 65000	358	10200
7074	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	81.00					
		Metals Total + WET CHEM						
1	182322A	07/29/21 Metals Total + WET CHEM	81.00			40 64000	355	10200
7075	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	67.00					
		Metals Total-As + SAMP 7/19/21						
1	182502A	07/29/21 Metals Total-As + SAMP 7/19/2	67.00			50 65000	358	10200
7076	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	81.00					
		Metals Total + SAMP 7/06/21						
1	182323A	07/29/21 Metals Total + SAMP 7/06/21	81.00			40 64000	355	10200
7077	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	283.00					
		RADIO CHEM- RADIUM SAMP 6/22/21						
1	182175A	07/28/21 RADIO CHEM- RADIUM SAMP6/22/2	283.00			50 65000	356	10200
7081	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	180.00					
		Metals Total-As + SAMP 7/06/21						
1	182321A	08/11/21 Metals Total-As + SAMP 7/06/2	180.00			40 64000	355	10200
7082	19145S	112 FGL - ENVIRONMENTAL ANALYTICAL	225.00					
		COLIFORM P/A & WET CHEM						
1	182503A	08/11/21 COLIFORM P/A&WET CHEM 7/19	45.00			50 65000	356	10200
2	182503A	08/11/21 COLIFORM P/A&WET CHEM 7/19	45.00			50 65000	357	10200
3	182503A	08/11/21 COLIFORM P/A&WET CHEM 7/19	135.00			50 65000	359	10200
		<b>Total for Vendor:</b>	<b>1,669.00</b>					
7000	19106S	114 FIRE CHIEFS ASSOC OF SLO COUNTY	275.00					
		2021/2022 CISM Fee						
1	2021-C08	07/06/21 2021/2022 CISM Fee	275.00			20 62000	385	10200

\* ... Over spent expenditure

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7001	19106S	114 FIRE CHIEFS ASSOC OF SLO COUNTY	50.00					
		2021/2022 Membership Fee						
1	2021-M8	07/06/21 2021/2022 Membership Fee	50.00			20 62000	385	10200
7002	19106S	114 FIRE CHIEFS ASSOC OF SLO COUNTY	2,000.00					
		2021-2022 HAZ MAT Membership Fee						
1	2021-006	07/06/21 Haz Mat Membership Fee for F	2,000.00			20 62000	710	10200
		<b>Total for Vendor:</b>	<b>2,325.00</b>					
7083	19107M	632 FRONTIER COMMUNICATIONS (216-5)	95.20					
		Acct #805-467-2015-051216-5						
		Service from 7/1/21 ~ 7/31/21						
		SCADA						
1	JULY21	07/01/21 Alarm/SCADA	47.60			40 64000	310	10200
2	JULY21	07/01/21 Alarm/SCADA	47.60			50 65000	310	10200
		<b>Total for Vendor:</b>	<b>95.20</b>					
7078	19146S	308 FRONTIER COMMUNICATIONS (412-5)	61.92					
		Acct #805-467-2818-010412-5						
		Service from 7/22/21 ~ 8/21/21						
		FS/CSD ALARM						
1	07/22/21	FS/CSD Alarm	30.96			40 64000	310	10200
2	07/22/21	FS/CSD Alarm	30.96			50 65000	310	10200
		<b>Total for Vendor:</b>	<b>61.92</b>					
6903	19071S	125 GREAT WESTERN ALARM	79.00					
		A0702						
		Service Period: 7/01/21 ~ 7/31/21						
		Inv 210602242101						
1	07/01/21	Answering Service JULY	39.50			40 64000	380	10200
2	07/01/21	Answering Service JULY	39.50			50 65000	380	10200
6904	19071S	125 GREAT WESTERN ALARM	32.00					
		GW-661						
		Service Period: 07/1/21 ~ 07/31/21						
		inv 210600545101						
1	07/01/21	Alarm Monitoring JULY	16.00			40 64000	380	10200

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Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
2	07/01/21	Alarm Monitoring JULY	16.00			50 65000	380	10200
		<b>Total for Vendor:</b>	<b>111.00</b>					
6950	19088S	684 INTERNATION CODE COUNCIL, INC	145.00					
1	3310336	06/15/21 ANNUAL ICC MEMBERSHIP 2021/22	145.00			20 62000	385	10200
		<b>Total for Vendor:</b>	<b>145.00</b>					
7024	19123S	147 JB DEWAR	1,335.45					
1	166933	07/16/21 Clear Diesel- 128 GAL	517.35			20 62000	485	10200
2	166933	07/16/21 Clear Diesel- 101 GAL	409.05			40 64000	485	10200
3	166933	07/16/21 Clear Diesel- 101 GAL	409.05			50 65000	485	10200
		<b>Total for Vendor:</b>	<b>1,335.45</b>					
6956	19089S	510 LOCAL IT EXPERTS	1,201.50					
1	310	07/02/21 MONTHLY IT SERVICE	204.70			20 62000	334	10200
2	310	07/02/21 MONTHLY IT SERVICE	17.80			30 63000	334	10200
3	310	07/02/21 MONTHLY IT SERVICE	311.50			40 64000	334	10200
4	310	07/02/21 MONTHLY IT SERVICE	338.20			50 65000	334	10200
5	310	07/02/21 MONTHLY IT SERVICE	17.80			60 66000	334	10200
6	310	07/02/21 LOREX CAMERA SYS UPGRADE	178.00			20 62000	350	10200
7	310	07/02/21 NEW EMPLOYEE SETUP MHIDO	30.71			20 62000	350	10200
8	310	07/02/21 NEW EMPLOYEE SETUP MHIDO	2.67			30 63000	350	10200
9	310	07/02/21 NEW EMPLOYEE SETUP MHIDO	46.73			40 64000	350	10200
10	310	07/02/21 NEW EMPLOYEE SETUP MHIDO	50.73			50 65000	350	10200
11	310	07/02/21 NEW EMPLOYEE SETUP MHIDO	2.66			60 66000	350	10200
		<b>Total for Vendor:</b>	<b>1,201.50</b>					
6958	19090S	646 MISSION UNIFORM SUPPLY	50.17					
		Uniforms; Dodds, Sobotka, Pittman, Paslay						
1	515087324	07/07/21 Employee Uniforms	1.00			30 63000	495	10200
2	515087324	07/07/21 Employee Uniforms	24.08			40 64000	495	10200
3	515087324	07/07/21 Employee Uniforms	24.09			50 65000	495	10200
4	515087324	07/07/21 Employee Uniforms	1.00			60 66000	495	10200

\* ... Over spent expenditure

Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
7009	19108S	646 MISSION UNIFORM SUPPLY	50.17					
		Uniforms; Dodds, Sobotka, Pittman, Paslay						
1	515136867	07/14/21 Employee Uniforms	1.00			30 63000	495	10200
2	515136867	07/14/21 Employee Uniforms	24.08			40 64000	495	10200
3	515136867	07/14/21 Employee Uniforms	24.09			50 65000	495	10200
4	515136867	07/14/21 Employee Uniforms	1.00			60 66000	495	10200
7016	19124S	646 MISSION UNIFORM SUPPLY	50.17					
		Uniforms; Dodds, Sobotka, Pittman, Paslay						
1	515171124	07/21/21 Employee Uniforms	1.00			30 63000	495	10200
2	515171124	07/21/21 Employee Uniforms	24.08			40 64000	495	10200
3	515171124	07/21/21 Employee Uniforms	24.09			50 65000	495	10200
4	515171124	07/21/21 Employee Uniforms	1.00			60 66000	495	10200
7051	19147S	646 MISSION UNIFORM SUPPLY	50.17					
		Uniforms; Dodds, Sobotka, Pittman, Paslay						
1	515216590	07/28/21 Employee Uniforms	1.00			30 63000	495	10200
2	515216590	07/28/21 Employee Uniforms	24.08			40 64000	495	10200
3	515216590	07/28/21 Employee Uniforms	24.09			50 65000	495	10200
4	515216590	07/28/21 Employee Uniforms	1.00			60 66000	495	10200
		<b>Total for Vendor:</b>	<b>200.68</b>					
7059	19148S	559 MONSOON VENTURES, INC.	3,045.00					
		SMCSD WWTP PROJECT MGMT SERVICES						
1	2746	08/08/21 WWTP PLANS&RVSNS W DUDEK/KD	3,045.00			40 64000	587	10200
7062	19148S	559 MONSOON VENTURES, INC.	415.00					
		SMCSD WWTP ENGINEERING REPORT USDA & WB						
1	2748	08/08/21 WWTP ENGINEERING REPORT USDA &	415.00			40 64000	587	10200
7063	19148S	559 MONSOON VENTURES, INC.	435.00					
		SMCSD JULY BM DE & WWTF STATUS REPORT						
1	2745	08/08/21 SMCSD JULY BOARD DE REPORT	217.50			40 64000	326	10200
2	2745	08/08/21 SMCSD JULY BOARD DE REPORT	217.50			50 65000	326	10200

\* ... Over spent expenditure

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7064	19148S	559 MONSOON VENTURES, INC.	10,112.50					
		WWTF HEADWORKS MEETING, RFB, TECH, EXHIB, DEMO						
1	2747 08/08/21	WWTF HEADWORKS RFB, TECH, MEET	10,112.50			40 64000	587	10200
		<b>Total for Vendor:</b>	<b>14,007.50</b>					
7035	19125S	602 MULLAHEY CHRYSLER DODGE JEEP RAM	85.41					
		2006 GMC Sierra Service						
1	53405 07/16/21	Service 2006 GMC	42.70			40 64000	354	10200
2	53405 07/16/21	Service 2006 GMC	42.71			50 65000	354	10200
		<b>Total for Vendor:</b>	<b>85.41</b>					
7067	19149S	17 N REX AWALT CORPORATION	3.86					
1	19948 07/29/21	3/4" PLUGS S40 PVC	3.86			50 65000	353	10200
		<b>Total for Vendor:</b>	<b>3.86</b>					
7030	19126S	182 NAPA AUTO PARTS	141.94					
1	052580 04/16/21	FILTER KIT,AIRFLT&HYDRAULC FLT	70.97			40 64000	352	10200
2	052580 04/16/21	FILTER KIT,AIRFLT&HYDRAULC FLT	70.97			50 65000	352	10200
7031	19126S	182 NAPA AUTO PARTS	71.75					
1	050658 04/08/21	LUCAS OIL CYL LUBE	35.88			40 64000	352	10200
2	050658 04/08/21	LUCAS OIL CYL LUBE	35.87			50 65000	352	10200
7032	19126S	182 NAPA AUTO PARTS	232.73					
1	043007 03/01/21	STARTER REMNF 06 GMC	116.37			40 64000	352	10200
2	043007 03/01/21	STARTER REMNF 06 GMC	116.36			50 65000	352	10200
7033	19126S	182 NAPA AUTO PARTS	520.56					
1	050522 04/07/21	FUEL FILTER,OIL, HYDLC&OIL FTR	520.56			40 64000	352	10200
7034	19126S	182 NAPA AUTO PARTS	13.03					
1	056514 05/05/21	BLSTR PK MINI	6.51			50 65000	354	10200
2	056514 05/05/21	BLSTR PK MINI	6.52			40 64000	354	10200
		<b>Total for Vendor:</b>	<b>980.01</b>					

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7036	19127S	636 OFFICE1 Maintenance Contract #CBM6913-02 Samsung/X4250LX	77.45					
Acct No. 013014								
1	AR697235	07/02/21 MAINT/COPY CNTRCT 7/4/21-8/3	15.88			20 62000	334	10200
2	AR697235	07/02/21 MAINT/COPY CNTRCT 7/4/21-8/3	1.55			30 63000	334	10200
3	AR697235	07/02/21 MAINT/COPY CNTRCT 7/4/21-8/3	29.43			40 64000	334	10200
4	AR697235	07/02/21 MAINT/COPY CNTRCT 7/4/21-8/3	29.04			50 65000	334	10200
5	AR697235	07/02/21 MAINT/COPY CNTRCT 7/4/21-8/3	1.55			60 66000	334	10200
<b>Total for Vendor:</b>			<b>77.45</b>					
6964	19092S	500 PACIFIC WESTERN BANK To Disburse Wastewater Funds from Pacific Premier to Pacific Western for long term Maintenance	100,000.00					
1	070821	07/08/21 To Disburse Wastewater Funds	100,000.00			40 64000	970	10200
<b>Total for Vendor:</b>			<b>100,000.00</b>					
7037	19128S	208 PG&E #6480-8	1,086.71					
Acct #8565976480-8								
1	07/19/21	12th & K 8565976725	8.93			30 63000	381	10200
2	07/19/21	Tract 2710 - 8562053214	69.46			30 63000	381	10200
3	07/19/21	Tract 2710 - 8564394360	30.23			30 63000	381	10200
4	07/19/21	Tract 2710 - 8560673934	75.57			30 63000	381	10200
5	07/19/21	Mission Heights - 8565976482	164.49			30 63000	381	10200
6	07/19/21	Tract 2605 - 8565976109	35.25			30 63000	381	10200
7	07/19/21	9898 River Rd. - 8565976002	327.68			30 63000	381	10200
8	07/19/21	9898 River Rd. - 8565976004	42.24			30 63000	381	10200
9	07/19/21	9898 River Rd. - 8565976008	199.43			30 63000	381	10200
10	07/19/21	9898 River Rd. - 8565976014	67.16			30 63000	381	10200
11	07/19/21	9898 River Rd. - 8565976481	47.08			30 63000	381	10200
12	07/19/21	9898 River Rd. - 8565976483	19.19			30 63000	381	10200
<b>Total for Vendor:</b>			<b>1,086.71</b>					

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Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
7043	19129S	209 PG&E #6851-8	13,120.40					
Acct #3675186851-8								
1	07/21/21	Old Fire Station / 1297 L St	27.04			20 62000	381	10200
2	07/21/21	New Fire Station 1150 Mission	10.51			20 62000	381	10200
3	07/21/21	Water Works #1 / Well 3	2,851.84			50 65000	381	10200
4	07/21/21	Bonita Pl & 16th / Well 4	1,951.51			50 65000	381	10200
5	07/21/21	N St / WWTP	7,857.06			40 64000	381	10200
6	07/21/21	2HP Booster Station	17.86			50 65000	381	10200
7	07/21/21	Mission Heights Booster	10.51			50 65000	381	10200
8	07/21/21	14th St. & K St.	88.05			50 65000	381	10200
9	07/21/21	942 Soka Way lift station	100.19			40 64000	381	10200
10	07/21/21	Missn & 12th Lanscape~St light	109.05			30 63000	381	10200
11	07/21/21	SLT Well	96.78			50 65000	381	10200
<b>Total for Vendor:</b>			<b>13,120.40</b>					
6959	19093S	685 PNC EQUIPMENT FINANCE	47,082.69					
7/24/2020-7/23/2021 CONTRACT# 98992197-1								
1	1181203	06/29/21 8668 ENGINE PAYMENT FY 21/22	47,082.69			20 62000	500	10200
<b>Total for Vendor:</b>			<b>47,082.69</b>					
7052	19150S	226 ROBERSON, ROB	78.00					
1	02016316	07/23/21 FUEL REIMBURSEMENT	78.00			20 62000	485	10200
<b>Total for Vendor:</b>			<b>78.00</b>					
6912	19094S	5 SAN LUIS OBISPO COUNTY AIR	2,307.40					
PERMITS FOR EMERGENCY STANDBY ENGINES								
1	21365	06/18/21 PERMITS 2021-2022 12TH ST	406.70			50 65000	715	10200
2	21365	06/18/21 PERMITS 2021-2022 N ST	1,494.00*			40 64000	715	10200
3	21365	06/18/21 PERMITS 2021-2024 WWTP	406.70*			40 64000	715	10200
<b>Total for Vendor:</b>			<b>2,307.40</b>					
6999	19110S	440 SAN LUIS OBISPO COUNTY FIRE	10,600.00					
Dispatch agreement with San Miguel Fire Department CY 21/22 Annual Invoice for 2020								
1	1560	07/07/21 Fire Dispatch Serv CY 2020	10,600.00*			20 62000	370	10200
<b>Total for Vendor:</b>			<b>10,600.00</b>					



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7038	19130S	481 SAN MIGUEL COMMUNITY SERVICES	35.92					
1	07/15/21	1150 Mission Street	17.96			50 65000	384	10200
2	07/15/21	1150 Mission Street	17.96			40 64000	384	10200
7039	19130S	481 SAN MIGUEL COMMUNITY SERVICES	454.56					
1	07/15/21	1203 Mission	454.56			30 63000	384	10200
7040	19130S	481 SAN MIGUEL COMMUNITY SERVICES	50.03					
1	07/15/21	942 Soka	50.03			40 64000	384	10200
7041	19130S	481 SAN MIGUEL COMMUNITY SERVICES	105.71					
1	07/15/21	1199 Mission	105.71			30 63000	384	10200
		<b>Total for Vendor:</b>	<b>646.22</b>					
6941	19095S	238 SAN MIGUEL GARBAGE	103.98					
1	070121	07/01/21 JULY 2021	51.99			40 64000	383	10200
2	070121	07/01/21 JULY 2021	51.99			50 65000	383	10200
		<b>Total for Vendor:</b>	<b>103.98</b>					
6827	19096S	247 SDRMA	26,638.35					
		Estimated worker compensation Program Year 2021-22						
1	70058	05/18/21 Worker Compensation	8,938.52*			20 62000	120	10200
2	70058	05/18/21 Worker Compensation	370.32			30 63000	120	10200
3	70058	05/18/21 Worker Compensation	8,455.52			40 64000	120	10200
4	70058	05/18/21 Worker Compensation	8,503.67			50 65000	120	10200
5	70058	05/18/21 Worker Compensation	370.32			60 66000	120	10200
6877	19101S	247 SDRMA	50,147.71					
		Property/Liability Package Program, annual invoice 2021-22						
1	70526	06/03/21 Property/Liability 2021/2022	14,709.86			20 62000	328	10200
2	70526	06/03/21 Property/Liability 2021/2022	925.06			30 63000	328	10200
3	70526	06/03/21 Property/Liability 2021/2022	12,841.72			40 64000	328	10200
4	70526	06/03/21 Property/Liability 2021/2022	20,976.75*			50 65000	328	10200
5	70526	06/03/21 Property/Liability 2021/2022	694.32			60 66000	328	10200

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6955	19096S	247 SDRMA GENERATOR AT 10TH ST. ADDED EFFECTIVE 5/13/21	50.50					
1	70738	06/30/21 GENERATOR INS 2020-21	3.16*			50 65000	328	10200
2	70738	06/30/21 ADD INS'D KELLER T.H.U. 2020-2	47.34			20 62000	328	10200
6997	4123S	247 SDRMA Employee Dental & Vision Insurance Coverage Month: July 2021	761.34					
1	35568	06/10/21 DENTAL JULY 2021	49.02			20 21811		10250
2	35568	06/10/21 DENTAL JULY 2021	13.60			30 21811		10250
3	35568	06/10/21 DENTAL JULY 2021	289.46			40 21811		10250
4	35568	06/10/21 DENTAL JULY 2021	308.72			50 21811		10250
5	35568	06/10/21 DENTAL JULY 2021	14.44			60 21811		10250
6	35568	06/10/21 VISION JULY 2021	7.25			20 21812		10250
7	35568	06/10/21 VISION JULY 2021	1.81			30 21812		10250
8	35568	06/10/21 VISION JULY 2021	30.28			40 21812		10250
9	35568	06/10/21 VISION JULY 2021	44.80			50 21812		10250
10	35568	06/10/21 VISION JULY 2021	1.96			60 21812		10250
<b>Total for Vendor:</b>			<b>77,597.90</b>					
7023	19131S	349 SHORE-TEK TRENCH & EXCAVATION	50.00					
GX 3R 4		Gas Monitor Calibration						
1	6197	07/06/21 Calibration 4 GAS CAL	25.00			40 64000	352	10200
2	6197	07/06/21 Calibration 4 GAS CAL	25.00			50 65000	352	10200
<b>Total for Vendor:</b>			<b>50.00</b>					
6960	19097S	437 SLOACTTC LAFCO 2021-22	6,052.60					
1	LAFCO	2021 07/01/21 LAFCO 2021-22	1,210.52			20 62000	394	10200
2	LAFCO	2021 07/01/21 LAFCO 2021-22	1,210.52			30 63000	394	10200
3	LAFCO	2021 07/01/21 LAFCO 2021-22	1,210.52			40 64000	394	10200
4	LAFCO	2021 07/01/21 LAFCO 2021-22	1,210.52			50 65000	394	10200
5	LAFCO	2021 07/01/21 LAFCO 2021-22	1,210.52			60 66000	394	10200
<b>Total for Vendor:</b>			<b>6,052.60</b>					

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7048	19132S	460 STATE WATER RESOURCES CONTROL	295.00					
		Sobotka WW Grade III Exam App						
1	07/28/21	Sobotka WW Grade III Exam App	295.00*			40 64000	715	10200
7066	19151S	460 STATE WATER RESOURCES CONTROL	125.00					
		Sobotka WW Grade II CERT. FEE						
1	CERT28791	07/28/21 SOBOTKA WW GRADE II CERT FE	125.00*			40 64000	715	10200
		<b>Total for Vendor:</b>	<b>420.00</b>					
7029	19133S	534 STREAMLINE	2,400.00					
		Web Page Hosting- Annual						
		Service for July 2021- June 2022						
DA029807-0009								
1	29807-0009	07/27/21 WEB PAGE ANNUAL FEE 7/21-6	492.00			20 62000	376	10200
2	29807-0009	07/27/21 WEB PAGE ANNUAL FEE 7/21-6	48.00			30 63000	376	10200
3	29807-0009	07/27/21 WEB PAGE ANNUAL FEE 7/21-6	912.00			40 64000	376	10200
4	29807-0009	07/27/21 WEB PAGE ANNUAL FEE 7/21-6	900.00			50 65000	376	10200
5	29807-0009	07/27/21 WEB PAGE ANNUAL FEE 7/21-6	48.00*			60 66000	376	10200
		<b>Total for Vendor:</b>	<b>2,400.00</b>					
7057	19152S	282 THE BLUEPRINTER	7.83					
1	81309	07/30/21 SMCS Waste Water signs	7.83			40 64000	320	10200
		<b>Total for Vendor:</b>	<b>7.83</b>					
7053	19153S	677 Trevor Paslay	91.00					
		Reimbursement for CWEA membership						
1	396350	07/06/21 Cwea membership 2021/2022	91.00*			40 64000	715	10200
		<b>Total for Vendor:</b>	<b>91.00</b>					
7022	19134S	491 ULINE	1,290.92					
1	135798825	07/06/21 MISSION ST TRASHCAN RPLMT P	1,290.92*			60 66000	353	10200
		<b>Total for Vendor:</b>	<b>1,290.92</b>					

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Claim/ Line #	Check Invoice #	Vendor #/Name/ #/Inv Date/Description	Document \$/ Line \$	Disc \$	PO #	Fund Org Acct	Object Proj	Cash Account
7019	19135S	298 UNIVAR USA INC	734.16					
1	49289948	07/12/21 SOD HYPO 12.5%Liquichlor WEL	734.16			50 65000	482	10200
7020	19135S	298 UNIVAR USA INC	568.12					
1	49289947	07/12/21 SOD HYPO 12.5%Liquichlor WEL	568.12			50 65000	481	10200
		<b>Total for Vendor:</b>	<b>1,302.28</b>					
7079	19154S	301 US BANK	2,747.82					
JULY 2021								
6	07/22/21	ADOBE MONTHLY KD	0.74			30 63000	385	10200
7	07/22/21	ADOBE MONTHLY KD	6.75			40 64000	385	10200
8	07/22/21	ADOBE MONTHLY KD	6.75			50 65000	385	10200
9	07/22/21	ADOBE MONTHLY KD	0.75			60 66000	385	10200
11	07/22/21	USPS- STAMPS	56.20			20 62000	503	10200
12	07/22/21	HARBOR FREIGHT WASH SOAP/BRUSH	56.50			20 62000	305	10200
13	07/22/21	SANPASO GAS	83.00			20 62000	485	10200
14	07/22/21	OREILLY- HEATER HOSE	14.13			20 62000	351	10200
15	07/22/21	SANPASO GAS	75.00			20 62000	485	10200
16	07/22/21	USPS- PF CK	1.85			20 62000	315	10200
17	07/22/21	USPS- PF CK	0.16			30 63000	315	10200
18	07/22/21	USPS- PF CK	2.82			40 64000	315	10200
19	07/22/21	USPS- PF CK	3.06			50 65000	315	10200
20	07/22/21	USPS- PF CK	0.16			60 66000	315	10200
21	07/22/21	WALMART- TOOLS	53.90			20 62000	490	10200
22	07/22/21	JIFFY LUBE- 8600	125.32			20 62000	351	10200
23	07/22/21	ZOOM- BOARD MEETINGS	3.45			20 62000	385	10200
24	07/22/21	ZOOM- BOARD MEETINGS	0.30			30 63000	385	10200
25	07/22/21	ZOOM- BOARD MEETINGS	5.25			40 64000	385	10200
26	07/22/21	ZOOM- BOARD MEETINGS	5.69			50 65000	385	10200
27	07/22/21	ZOOM- BOARD MEETINGS	0.30			60 66000	385	10200
41	07/22/21	ADOBE - MONTHLY TP	3.45			20 62000	385	10200
42	07/22/21	ADOBE - MONTHLY TP	0.30			30 63000	385	10200
43	07/22/21	ADOBE - MONTHLY TP	5.25			40 64000	385	10200
44	07/22/21	ADOBE - MONTHLY TP	5.69			50 65000	385	10200
45	07/22/21	ADOBE - MONTHLY TP	0.30			60 66000	385	10200
46	07/22/21	USPS - STAMPS	82.50			40 64000	315	10200

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47	07/22/21	USPS - STAMPS	82.50			50 65000	315	10200
53	07/22/21	AMAZON- TRAY, CABLE, PWR STRP	82.20			40 64000	410	10200
54	07/22/21	AMAZON- PAPER	30.87			40 64000	410	10200
55	07/22/21	AMAZON- MOUSE, CHAIR MATS	123.11			40 64000	410	10200
56	07/22/21	NEWEGG- ETHERNET CABLE	8.37			40 64000	475	10200
59	07/22/21	LOWES - VINYL, MIP	8.55			20 62000	352	10200
60	07/22/21	USPS- BA AIR SAMPLE	5.00			20 62000	315	10200
61	07/22/21	VALERO- OES DEF	38.59*			20 62000	307	10200
62	07/22/21	BIG5- OES COTS	272.75*			20 62000	307	10200
63	07/22/21	WALMART- OES COOLER	128.79*			20 62000	307	10200
64	07/22/21	LOWES- OES SAFETY EQUIPT	37.83*			20 62000	307	10200
65	07/22/21	COSTCO- OES LIQUIDIV	62.18*			20 62000	307	10200
66	07/22/21	AM BACKFLOW PREV ASSOC CERT	25.00			50 65000	385	10200
67	07/22/21	AM BACKFLOW PREV ASSOC CLASS	100.00			50 65000	385	10200
68	07/22/21	SANPASO 8636 RAM	23.07			40 64000	485	10200
69	07/22/21	SANPASO 8636 RAM	23.06			50 65000	485	10200
70	07/22/21	AM TIRES- RAM4500	483.45			40 64000	354	10200
71	07/22/21	AM TIRES- RAM4500	483.45			50 65000	354	10200
72	07/22/21	LOWES - BR FAUCET	67.16			20 62000	352	10200
73	07/22/21	AMAZON- HOSE TIMER	62.32			50 65000	305	10200
<b>Total for Vendor:</b>			<b>2,747.82</b>					
7069	19155S	303 USA BLUEBOOK	156.67					
WARNING SIGNS- TAMPERING FED OFFENSE								
1	670581	07/21/21 TAMPERING WARNING SIGNS	78.33			50 65000	353	10200
2	670581	07/21/21 TAMPERING WARNING SIGNS	78.34			40 64000	582	10200
<b>Total for Vendor:</b>			<b>156.67</b>					
7013	19136S	327 VALLI INFORMATION SYSTEMS	668.65					
Web Posting service and Postage for JULY								
1	77189	07/21/21 Web Posting, Postage JULY	180.54			40 64000	315	10200
2	77189	07/21/21 Web Posting, Postage JULY	180.54			50 65000	315	10200
3	77189	07/21/21 Printed insert ~ Weeds JULY	94.50			50 65000	320	10200
4	77189	07/21/21 Printing JULY	106.53			40 64000	320	10200
5	77189	07/21/21 Printing JULY	106.54			50 65000	320	10200

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7061	19156S	327 VALLI INFORMATION SYSTEMS	78.60					
		OTC/ONLINE MONTHLY MAINT AND SERVICE FEE						
1	77506	07/31/21 OTC JULY MONTHLY MAINT	39.30			40 64000	305	10200
2	77506	07/31/21 OTC JULY MONTHLY MAINT	39.30			50 65000	305	10200
		<b>Total for Vendor:</b>	<b>747.25</b>					
7021	19137S	511 VERIZON	105.12					
		Laptop 805-423-7591,805-591-9233,805-591-9352						
		Laptop 805-369-9703						
		07/09/21 ~ 08/08/21						
1	9883623246	07/08/21 Tablets JULY	42.04			20 62000	310	10200
2	9883623246	07/08/21 Tablets JULY	31.54			40 64000	310	10200
3	9883623246	07/08/21 Tablets JULY	31.54			50 65000	310	10200
		<b>Total for Vendor:</b>	<b>105.12</b>					
6938	19099S	395 WATER ENVIRONMENTAL FEDERATION	332.00					
1	17649822	02/28/21 WEF MEMBERSHIP 2021-22	332.00			40 64000	385	10200
		<b>Total for Vendor:</b>	<b>332.00</b>					
6951	19100S	317 WESTERN JANITOR SUPPLY INC	24.75					
1	185750	07/01/21 MOP	8.25			20 62000	305	10200
2	185750	07/01/21 MOP	8.25			40 64000	305	10200
3	185750	07/01/21 MOP	8.25			50 65000	305	10200
		<b>Total for Vendor:</b>	<b>24.75</b>					
7058	-99445E	612 WEX BANK	579.34					
		FUEL BILL CLOSING DATE: 07/07/21						
1	72811924	07/07/21 Fuel 8600 JUNE	74.29			20 62000	485	10200
2	72811924	07/07/21 Fuel 8601 JUNE	130.74			20 62000	485	10200
3	72811924	07/07/21 Fuel 8630 JUNE	0.00			20 62000	485	10200
4	72811924	07/07/21 Fuel U8632 JUNE	122.84			40 64000	485	10200
7	72811924	07/07/21 Fuel U8632 JUNE	122.84			50 65000	485	10200
8	72811924	07/07/21 Fuel 8634 JUNE	0.00			40 64000	485	10200
9	72811924	07/07/21 Fuel 8634 JUNE	0.00			50 65000	485	10200
10	72811924	07/07/21 Fuel RAM 1500 JUNE	55.23			50 65000	485	10200
11	72811924	07/07/21 Fuel RAM 1500 JUNE	55.23			40 64000	485	10200

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12	72811924	07/07/21 Fuel Card Shipping	6.06			20 62000	485	10200
13	72811924	07/07/21 Fuel Card Shipping	6.05			40 64000	485	10200
14	72811924	07/07/21 Fuel Card Shipping	6.06			50 65000	485	10200
<b>Total for Vendor:</b>			<b>579.34</b>					
<b># of Claims</b>			<b>97</b>	<b>Total:</b>				<b>309,003.67</b>
<b>Total Electronic Claims</b>								<b>9,607.21</b>
<b>Total Non-Electronic Claims</b>								<b>299396.46</b>

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<b>Fund/Account</b>	<b>Amount</b>
20 FIRE PROTECTION DEPARTMENT	
10200 Operating Cash - Premier	\$89,105.40
10250 Pac Premier - Payroll	\$1,189.95
30 STREET LIGHTING DEPARTMENT	
10200 Operating Cash - Premier	\$4,337.45
10250 Pac Premier - Payroll	\$259.24
40 WASTEWATER DEPARTMENT	
10200 Operating Cash - Premier	\$152,705.36
10250 Pac Premier - Payroll	\$3,707.50
50 WATER DEPARTMENT	
10200 Operating Cash - Premier	\$49,424.65
10250 Pac Premier - Payroll	\$4,364.83
60 SOLID WASTE DEPARTMENT	
10200 Operating Cash - Premier	\$3,641.60
10250 Pac Premier - Payroll	\$267.69
<b>Total:</b>	<b>\$309,003.67</b>



Fund	Account	Received Current Month	Received YTD	Estimated Revenue	Revenue To Be Received	% Received
20 FIRE PROTECTION DEPARTMENT						
40000						
40420	Ambulance Reimbursement	0.00	0.00	4,400.00	4,400.00	0 %
40500	VFA Assistance Grant	0.00	0.00	20,000.00	20,000.00	0 %
40505	CFF-California Fire Foundation	0.00	0.00	15,000.00	15,000.00	0 %
	<b>Account Group Total:</b>	<b>0.00</b>	<b>0.00</b>	<b>39,400.00</b>	<b>39,400.00</b>	<b>0 %</b>
43000	Property Taxes Collected					
43000	Property Taxes Collected	2,745.38	2,745.38	425,798.00	423,052.62	1 %
	<b>Account Group Total:</b>	<b>2,745.38</b>	<b>2,745.38</b>	<b>425,798.00</b>	<b>423,052.62</b>	<b>1 %</b>
46000	Revenues & Interest					
46000	Revenues & Interest	46.57	46.57	0.00	-46.57	** %
46150	Miscellaneous Income	4.88	4.88	9,750.00	9,745.12	0 %
46153	Plan Check Fees and Inspections	0.00	0.00	5,500.00	5,500.00	0 %
	<b>Account Group Total:</b>	<b>51.45</b>	<b>51.45</b>	<b>15,250.00</b>	<b>15,198.55</b>	<b>0 %</b>
	<b>Fund Total:</b>	<b>2,796.83</b>	<b>2,796.83</b>	<b>480,448.00</b>	<b>477,651.17</b>	<b>1 %</b>
30 STREET LIGHTING DEPARTMENT						
43000	Property Taxes Collected					
43000	Property Taxes Collected	0.00	0.00	135,740.00	135,740.00	0 %
	<b>Account Group Total:</b>	<b>0.00</b>	<b>0.00</b>	<b>135,740.00</b>	<b>135,740.00</b>	<b>0 %</b>
46000	Revenues & Interest					
46000	Revenues & Interest	179.37	179.37	0.00	-179.37	** %
46100	Realized Earnings	-974.15	-974.15	0.00	974.15	** %
46150	Miscellaneous Income	0.42	0.42	0.00	-0.42	** %
	<b>Account Group Total:</b>	<b>-794.36</b>	<b>-794.36</b>	<b>0.00</b>	<b>794.36</b>	<b>** %</b>
	<b>Fund Total:</b>	<b>-794.36</b>	<b>-794.36</b>	<b>135,740.00</b>	<b>136,534.36</b>	<b>-1 %</b>
40 WASTEWATER DEPARTMENT						
40000						
40900	Wastewater Sales	92,626.33	92,626.33	1,001,618.00	908,991.67	9 %
	<b>Account Group Total:</b>	<b>92,626.33</b>	<b>92,626.33</b>	<b>1,001,618.00</b>	<b>908,991.67</b>	<b>9 %</b>
43000	Property Taxes Collected					
43000	Property Taxes Collected	0.00	0.00	66,956.00	66,956.00	0 %
	<b>Account Group Total:</b>	<b>0.00</b>	<b>0.00</b>	<b>66,956.00</b>	<b>66,956.00</b>	<b>0 %</b>
46000	Revenues & Interest					
46000	Revenues & Interest	123.52	123.52	0.00	-123.52	** %
46008	DWR Grants	0.00	0.00	180,000.00	180,000.00	0 %
46150	Miscellaneous Income	872.42	872.42	0.00	-872.42	** %
	<b>Account Group Total:</b>	<b>995.94</b>	<b>995.94</b>	<b>180,000.00</b>	<b>179,004.06</b>	<b>1 %</b>

Fund	Account	Received Current Month	Received YTD	Estimated Revenue	Revenue To Be Received	% Received
	<b>Fund Total:</b>	<b>93,622.27</b>	<b>93,622.27</b>	<b>1,248,574.00</b>	<b>1,154,951.73</b>	<b>7 %</b>
50 WATER DEPARTMENT						
41000	Water Sales					
41000	Water Sales	93,389.36	93,389.36	920,172.00	826,782.64	10 %
	<b>Account Group Total:</b>	<b>93,389.36</b>	<b>93,389.36</b>	<b>920,172.00</b>	<b>826,782.64</b>	<b>10 %</b>
46000	Revenues & Interest					
46000	Revenues & Interest	41.48	41.48	0.00	-41.48	** %
46115	CALOES Resiliency Grant	0.00	0.00	230,000.00	230,000.00	0 %
46150	Miscellaneous Income	8.06	8.06	0.00	-8.06	** %
46155	Will Serve Processing Fees	0.00	0.00	3,000.00	3,000.00	0 %
	<b>Account Group Total:</b>	<b>49.54</b>	<b>49.54</b>	<b>233,000.00</b>	<b>232,950.46</b>	<b>0 %</b>
	<b>Fund Total:</b>	<b>93,438.90</b>	<b>93,438.90</b>	<b>1,153,172.00</b>	<b>1,059,733.10</b>	<b>8 %</b>
60 SOLID WASTE DEPARTMENT						
46000	Revenues & Interest					
46000	Revenues & Interest	3.38	3.38	0.00	-3.38	** %
46005	Franchise Fees	0.00	0.00	36,900.00	36,900.00	0 %
46150	Miscellaneous Income	0.42	0.42	0.00	-0.42	** %
	<b>Account Group Total:</b>	<b>3.80</b>	<b>3.80</b>	<b>36,900.00</b>	<b>36,896.20</b>	<b>0 %</b>
	<b>Fund Total:</b>	<b>3.80</b>	<b>3.80</b>	<b>36,900.00</b>	<b>36,896.20</b>	<b>0 %</b>
	<b>Grand Total:</b>	<b>189,067.44</b>	<b>189,067.44</b>	<b>3,054,834.00</b>	<b>2,865,766.56</b>	<b>6 %</b>

<b>Fund</b>	<b>Received Current Month</b>	<b>Received YTD</b>	<b>Estimated Revenue</b>	<b>Revenue To Be Received</b>	<b>% Received</b>
20 FIRE PROTECTION DEPARTMENT	2,796.83	2,796.83	480,448.00	477,651.17	1 %
30 STREET LIGHTING DEPARTMENT	-794.36	-794.36	135,740.00	136,534.36	-1 %
40 WASTEWATER DEPARTMENT	93,622.27	93,622.27	1,248,574.00	1,154,951.73	7 %
50 WATER DEPARTMENT	93,438.90	93,438.90	1,153,172.00	1,059,733.10	8 %
60 SOLID WASTE DEPARTMENT	3.80	3.80	36,900.00	36,896.20	0 %
<b>Grand Total:</b>	<b>189,067.44</b>	<b>189,067.44</b>	<b>3,054,834.00</b>	<b>2,865,766.56</b>	<b>6 %</b>

Fund Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% Committed
20 FIRE PROTECTION DEPARTMENT							
62000 Fire							
62000 Fire							
	105 Salaries and Wages	10,588.90	10,588.90	160,000.00	160,000.00	149,411.10	7 %
	111 BOD Stipend	484.00	484.00	1,380.00	1,380.00	896.00	35 %
	115 Payroll Expenses	228.96	228.96	2,000.00	2,000.00	1,771.04	11 %
	120 Workers' Compensation	8,938.52	8,938.52	8,000.00	8,000.00	-938.52	112 %
	121 Physicals	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	125 Volunteer firefighter stipends	1,545.10	1,545.10	45,000.00	45,000.00	43,454.90	3 %
	135 Payroll Tax - FICA	173.33	173.33	3,100.00	3,100.00	2,926.67	6 %
	140 Payroll Tax - Medicare	156.38	156.38	2,800.00	2,800.00	2,643.62	6 %
	155 Payroll Tax - SUI	108.29	108.29	3,918.00	3,918.00	3,809.71	3 %
	205 Insurance - Health	333.61	333.61	4,000.00	4,000.00	3,666.39	8 %
	210 Insurance - Dental	51.46	51.46	686.00	686.00	634.54	8 %
	215 Insurance - Vision	9.01	9.01	250.00	250.00	240.99	4 %
	225 Retirement - PERS expense	593.15	593.15	5,500.00	5,500.00	4,906.85	11 %
	305 Operations and maintenance	64.75	64.75	6,000.00	6,000.00	5,935.25	1 %
	307 OES Strike Team Expenses	540.14	540.14	0.00	0.00	-540.14	*** %
	310 Phone and fax expense	42.04	42.04	475.00	475.00	432.96	9 %
	315 Postage, shipping and freight	6.85	6.85	300.00	300.00	293.15	2 %
	320 Printing and reproduction	0.00	0.00	600.00	600.00	600.00	0 %
	323 Financial Auditor	0.00	0.00	4,100.00	4,100.00	4,100.00	0 %
	325 Professional Svcs - Accounting	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	326 Professional Svcs - Engineering	0.00	0.00	4,000.00	4,000.00	4,000.00	0 %
	327 Professional Svcs - Legal (General)	0.00	0.00	11,000.00	11,000.00	11,000.00	0 %
	328 Insurance - Prop and Liability	14,757.20	14,757.20	24,000.00	24,000.00	9,242.80	61 %
	330 Contract Labor	0.00	0.00	1,250.00	1,250.00	1,250.00	0 %
	334 Maintenance Agreements	220.58	220.58	10,000.00	10,000.00	9,779.42	2 %
	335 Meals - Reimbursement	0.00	0.00	600.00	600.00	600.00	0 %
	340 Meetings and conferences	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	345 Mileage expense reimbursement	1.08	1.08	500.00	500.00	498.92	0 %
	348 Safety Equipment and Supplies	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	350 Repairs and maint - computers	208.71	208.71	4,500.00	4,500.00	4,291.29	5 %
	351 Repairs and maint - equip	1,179.22	1,179.22	7,500.00	7,500.00	6,320.78	16 %
	352 Repairs and maint - structures	75.71	75.71	6,000.00	6,000.00	5,924.29	1 %
	354 Repairs and maint - vehicles	0.00	0.00	13,000.00	13,000.00	13,000.00	0 %
	370 Dispatch services (Fire)	10,600.00	10,600.00	10,000.00	10,000.00	-600.00	106 %
	375 Internet expenses	97.48	97.48	1,134.00	1,134.00	1,036.52	9 %
	376 Webpage- Upgrade/Maint	492.00	492.00	552.00	552.00	60.00	89 %
	380 Utilities - Alarm Service	0.00	0.00	120.00	120.00	120.00	0 %
	381 Utilities - electric	37.55	37.55	4,500.00	4,500.00	4,462.45	1 %
	382 Utilities - propane	0.00	0.00	500.00	500.00	500.00	0 %
	385 Dues and subscriptions	476.90	476.90	10,000.00	10,000.00	9,523.10	5 %
	386 Education and training	0.00	0.00	4,000.00	4,000.00	4,000.00	0 %
	393 Advertising and public notices	0.00	0.00	500.00	500.00	500.00	0 %
	394 LAFCO Allocations	1,210.52	1,210.52	2,250.00	2,250.00	1,039.48	54 %
	395 Community Outreach	0.00	0.00	1,500.00	1,500.00	1,500.00	0 %
	405 Software	0.00	0.00	4,000.00	4,000.00	4,000.00	0 %
	410 Office Supplies	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	450 EMS supplies	0.00	0.00	7,500.00	7,500.00	7,500.00	0 %
	455 Fire Safety Gear & Equipment	0.00	0.00	3,500.00	3,500.00	3,500.00	0 %

Fund Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% Committed
20 FIRE PROTECTION DEPARTMENT							
456	VFF Assistance Grant	0.00	0.00	40,000.00	40,000.00	40,000.00	0 %
457	CFF Grant ~ California Fire Grant	0.00	0.00	15,000.00	15,000.00	15,000.00	0 %
465	Cell phones, radios and pagers	58.66	58.66	1,200.00	1,200.00	1,141.34	5 %
470	Communication equipment	0.00	0.00	5,000.00	5,000.00	5,000.00	0 %
475	Computer supplies and upgrades	0.00	0.00	4,000.00	4,000.00	4,000.00	0 %
485	Fuel expense	964.44	964.44	5,000.00	5,000.00	4,035.56	19 %
490	Small tools and equipment	53.90	53.90	2,500.00	2,500.00	2,446.10	2 %
495	Uniform expense	0.00	0.00	3,000.00	3,000.00	3,000.00	0 %
500	Capital Outlay	-5,917.31	-5,917.31	0.00	0.00	5,917.31	*** %
503	Weed Abatement Costs	56.20	56.20	5,000.00	5,000.00	4,943.80	1 %
505	Fire Training Grounds	0.00	0.00	2,500.00	2,500.00	2,500.00	0 %
510	Fire station addition	0.00	0.00	5,000.00	5,000.00	5,000.00	0 %
710	County hazmat dues	2,000.00	2,000.00	2,000.00	2,000.00	0.00	100 %
715	Licenses, permits and fees	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
960	Property tax expense	0.00	0.00	220.00	220.00	220.00	0 %
	<b>Account Total:</b>	<b>50,437.33</b>	<b>50,437.33</b>	<b>479,935.00</b>	<b>479,935.00</b>	<b>429,497.67</b>	<b>11 %</b>
	<b>Account Group Total:</b>	<b>50,437.33</b>	<b>50,437.33</b>	<b>479,935.00</b>	<b>479,935.00</b>	<b>429,497.67</b>	<b>11 %</b>
	<b>Fund Total:</b>	<b>50,437.33</b>	<b>50,437.33</b>	<b>479,935.00</b>	<b>479,935.00</b>	<b>429,497.67</b>	<b>11 %</b>
30 STREET LIGHTING DEPARTMENT							
63000 Lighting							
63000 Lighting							
105	Salaries and Wages	896.70	896.70	15,500.00	15,500.00	14,603.30	6 %
111	BOD Stipend	44.00	44.00	240.00	240.00	196.00	18 %
115	Payroll Expenses	22.34	22.34	250.00	250.00	227.66	9 %
120	Workers' Compensation	370.32	370.32	500.00	500.00	129.68	74 %
135	Payroll Tax - FICA	7.83	7.83	300.00	300.00	292.17	3 %
140	Payroll Tax - Medicare	13.39	13.39	300.00	300.00	286.61	4 %
155	Payroll Tax - SUI	3.41	3.41	150.00	150.00	146.59	2 %
205	Insurance - Health	123.97	123.97	2,000.00	2,000.00	1,876.03	6 %
210	Insurance - Dental	5.76	5.76	200.00	200.00	194.24	3 %
215	Insurance - Vision	1.10	1.10	100.00	100.00	98.90	1 %
225	Retirement - PERS expense	107.47	107.47	2,500.00	2,500.00	2,392.53	4 %
305	Operations and maintenance	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
310	Phone and fax expense	0.00	0.00	50.00	50.00	50.00	0 %
315	Postage, shipping and freight	0.16	0.16	100.00	100.00	99.84	0 %
320	Printing and reproduction	0.00	0.00	500.00	500.00	500.00	0 %
323	Financial Auditor	0.00	0.00	400.00	400.00	400.00	0 %
325	Professional Svcs - Accounting	0.00	0.00	240.00	240.00	240.00	0 %
326	Professional Svcs - Engineering	0.00	0.00	5,000.00	5,000.00	5,000.00	0 %
327	Professional Svcs - Legal (General)	0.00	0.00	1,800.00	1,800.00	1,800.00	0 %
328	Insurance - Prop and Liability	925.06	925.06	1,125.00	1,125.00	199.94	82 %
330	Contract Labor	0.00	0.00	10,000.00	10,000.00	10,000.00	0 %
331	Professional Services - Legal (SMEA)	0.00	0.00	500.00	500.00	500.00	0 %
334	Maintenance Agreements	19.35	19.35	700.00	700.00	680.65	3 %
335	Meals - Reimbursement	0.00	0.00	150.00	150.00	150.00	0 %
340	Meetings and conferences	0.00	0.00	350.00	350.00	350.00	0 %

Fund Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% Committed
30 STREET LIGHTING DEPARTMENT							
	345 Mileage expense reimbursement	0.22	0.22	150.00	150.00	149.78	0 %
	348 Safety Equipment and Supplies	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	350 Repairs and maint - computers	2.67	2.67	150.00	150.00	147.33	2 %
	351 Repairs and maint - equip	0.00	0.00	10,000.00	10,000.00	10,000.00	0 %
	352 Repairs and maint - structures	0.00	0.00	500.00	500.00	500.00	0 %
	353 Repairs & Maint- Infrastructure	0.00	0.00	10,000.00	10,000.00	10,000.00	0 %
	354 Repairs and maint - vehicles	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	375 Internet expenses	0.00	0.00	200.00	200.00	200.00	0 %
	376 Webpage- Upgrade/Maint	48.00	48.00	100.00	100.00	52.00	48 %
	380 Utilities - Alarm Service	0.00	0.00	200.00	200.00	200.00	0 %
	381 Utilities - electric	1,195.76	1,195.76	20,000.00	20,000.00	18,804.24	6 %
	382 Utilities - propane	0.00	0.00	50.00	50.00	50.00	0 %
	383 Utilities - trash	0.00	0.00	200.00	200.00	200.00	0 %
	384 Utilities - Water/Sewer	560.27	560.27	15,000.00	15,000.00	14,439.73	4 %
	385 Dues and subscriptions	1.34	1.34	200.00	200.00	198.66	1 %
	386 Education and training	0.00	0.00	4,000.00	4,000.00	4,000.00	0 %
	393 Advertising and public notices	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	394 LAFCO Allocations	1,210.52	1,210.52	1,600.00	1,600.00	389.48	76 %
	410 Office Supplies	0.00	0.00	500.00	500.00	500.00	0 %
	465 Cell phones, radios and pagers	5.32	5.32	200.00	200.00	194.68	3 %
	475 Computer supplies and upgrades	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	485 Fuel expense	0.00	0.00	200.00	200.00	200.00	0 %
	490 Small tools and equipment	0.00	0.00	5,000.00	5,000.00	5,000.00	0 %
	495 Uniform expense	4.00	4.00	200.00	200.00	196.00	2 %
	581 WWTP Expansion	0.00	0.00	10,000.00	10,000.00	10,000.00	0 %
	582 WWTP Plant Maintenance	0.00	0.00	5,000.00	5,000.00	5,000.00	0 %
	715 Licenses, permits and fees	0.00	0.00	100.00	100.00	100.00	0 %
	<b>Account Total:</b>	<b>5,568.96</b>	<b>5,568.96</b>	<b>132,505.00</b>	<b>132,505.00</b>	<b>126,936.04</b>	<b>4 %</b>
	<b>Account Group Total:</b>	<b>5,568.96</b>	<b>5,568.96</b>	<b>132,505.00</b>	<b>132,505.00</b>	<b>126,936.04</b>	<b>4 %</b>
	<b>Fund Total:</b>	<b>5,568.96</b>	<b>5,568.96</b>	<b>132,505.00</b>	<b>132,505.00</b>	<b>126,936.04</b>	<b>4 %</b>

40 WASTEWATER DEPARTMENT

64000 Sanitary

64000 Sanitary

	105 Salaries and Wages	14,278.02	14,278.02	289,546.00	289,546.00	275,267.98	5 %
	109 Stand-by Hours	500.00	500.00	7,500.00	7,500.00	7,000.00	7 %
	111 BOD Stipend	792.00	792.00	4,600.00	4,600.00	3,808.00	17 %
	115 Payroll Expenses	424.42	424.42	3,400.00	3,400.00	2,975.58	12 %
	120 Workers' Compensation	8,455.52	8,455.52	10,000.00	10,000.00	1,544.48	85 %
	121 Physicals	0.00	0.00	150.00	150.00	150.00	0 %
	135 Payroll Tax - FICA	129.84	129.84	4,000.00	4,000.00	3,870.16	3 %
	140 Payroll Tax - Medicare	225.89	225.89	4,000.00	4,000.00	3,774.11	6 %
	155 Payroll Tax - SUI	57.32	57.32	2,200.00	2,200.00	2,142.68	3 %
	205 Insurance - Health	2,112.67	2,112.67	35,000.00	35,000.00	32,887.33	6 %
	206 Insurance - CalPers Health Retiree	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	210 Insurance - Dental	96.36	96.36	2,100.00	2,100.00	2,003.64	5 %
	215 Insurance - Vision	17.41	17.41	350.00	350.00	332.59	5 %

SAN MIGUEL COMMUNITY SERVICES DISTRICT  
Statement of Expenditure - Budget vs. Actual Report  
For the Accounting Period: 7 / 21

Fund Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% Committed
40 WASTEWATER DEPARTMENT							
	225 Retirement - PERS expense	1,366.08	1,366.08	22,000.00	22,000.00	20,633.92	6 %
	305 Operations and maintenance	105.06	105.06	8,000.00	8,000.00	7,894.94	1 %
	310 Phone and fax expense	110.10	110.10	1,100.00	1,100.00	989.90	10 %
	315 Postage, shipping and freight	265.86	265.86	3,500.00	3,500.00	3,234.14	8 %
	320 Printing and reproduction	114.36	114.36	2,500.00	2,500.00	2,385.64	5 %
	323 Financial Auditor	0.00	0.00	7,600.00	7,600.00	7,600.00	0 %
	325 Professional Svcs - Accounting	0.00	0.00	4,600.00	4,600.00	4,600.00	0 %
	326 Professional Svcs - Engineering	217.50	217.50	18,000.00	18,000.00	17,782.50	1 %
	327 Professional Svcs - Legal (General)	0.00	0.00	30,400.00	30,400.00	30,400.00	0 %
	328 Insurance - Prop and Liability	12,841.72	12,841.72	15,000.00	15,000.00	2,158.28	86 %
	329 New Hire Screening	0.00	0.00	100.00	100.00	100.00	0 %
	330 Contract Labor	0.00	0.00	5,000.00	5,000.00	5,000.00	0 %
	331 Professional Services - Legal (SMEA)	0.00	0.00	4,800.00	4,800.00	4,800.00	0 %
	334 Maintenance Agreements	340.93	340.93	10,500.00	10,500.00	10,159.07	3 %
	335 Meals - Reimbursement	0.00	0.00	100.00	100.00	100.00	0 %
	340 Meetings and conferences	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	345 Mileage expense reimbursement	8.63	8.63	1,000.00	1,000.00	991.37	1 %
	348 Safety Equipment and Supplies	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	349 Repairs & Maintenance Mission Gardens	0.00	0.00	10,000.00	10,000.00	10,000.00	0 %
	350 Repairs and maint - computers	46.73	46.73	1,600.00	1,600.00	1,553.27	3 %
	351 Repairs and maint - equip	2.15	2.15	10,000.00	10,000.00	9,997.85	0 %
	352 Repairs and maint - structures	768.78	768.78	1,500.00	1,500.00	731.22	51 %
	353 Repairs & Maint- Infrastructure	192.13	192.13	10,000.00	10,000.00	9,807.87	2 %
	354 Repairs and maint - vehicles	532.67	532.67	3,000.00	3,000.00	2,467.33	18 %
	355 Testing & Supplies (WWTP)	342.00	342.00	12,000.00	12,000.00	11,658.00	3 %
	375 Internet expenses	263.70	263.70	2,500.00	2,500.00	2,236.30	11 %
	376 Webpage- Upgrade/Maint	912.00	912.00	1,000.00	1,000.00	88.00	91 %
	379 Utilities Electric Mission Gardens	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	380 Utilities - Alarm Service	55.50	55.50	650.00	650.00	594.50	9 %
	381 Utilities - electric	7,957.25	7,957.25	80,000.00	80,000.00	72,042.75	10 %
	382 Utilities - propane	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	383 Utilities - trash	51.99	51.99	800.00	800.00	748.01	6 %
	384 Utilities - Water/Sewer	67.99	67.99	1,000.00	1,000.00	932.01	7 %
	385 Dues and subscriptions	349.25	349.25	4,000.00	4,000.00	3,650.75	9 %
	386 Education and training	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	393 Advertising and public notices	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	394 LAFCO Allocations	1,210.52	1,210.52	1,600.00	1,600.00	389.48	76 %
	395 Community Outreach	0.00	0.00	1,200.00	1,200.00	1,200.00	0 %
	396 Utilities SoCalGas	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	410 Office Supplies	236.18	236.18	2,000.00	2,000.00	1,763.82	12 %
	459 Scada - Maintenance Fees	0.00	0.00	1,500.00	1,500.00	1,500.00	0 %
	465 Cell phones, radios and pagers	92.20	92.20	1,600.00	1,600.00	1,507.80	6 %
	475 Computer supplies and upgrades	8.37	8.37	2,000.00	2,000.00	1,991.63	0 %
	485 Fuel expense	616.24	616.24	5,000.00	5,000.00	4,383.76	12 %
	490 Small tools and equipment	0.00	0.00	5,739.00	5,739.00	5,739.00	0 %
	495 Uniform expense	96.32	96.32	2,000.00	2,000.00	1,903.68	5 %
	560 Sewer Line Repairs	0.00	0.00	10,000.00	10,000.00	10,000.00	0 %
	570 Repairs, Maint. and Video Sewer Lines	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	581 WWTP Expansion	0.00	0.00	40,000.00	40,000.00	40,000.00	0 %
	582 WWTP Plant Maintenance	78.34	78.34	32,000.00	32,000.00	31,921.66	0 %

SAN MIGUEL COMMUNITY SERVICES DISTRICT  
Statement of Expenditure - Budget vs. Actual Report  
For the Accounting Period: 7 / 21

Fund Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% Committed
40 WASTEWATER DEPARTMENT							
	583 WWTP Drying Pond Maintenance	0.00	0.00	20,000.00	20,000.00	20,000.00	0 %
	587 WWTF Final Design/ Construction	13,872.50	13,872.50	128,589.00	128,589.00	114,716.50	11 %
	705 Waste Discharge Fees/Permits	0.00	0.00	25,000.00	25,000.00	25,000.00	0 %
	715 Licenses, permits and fees	2,593.70	2,593.70	2,000.00	2,000.00	-593.70	130 %
	960 Property tax expense	0.00	0.00	250.00	250.00	250.00	0 %
	970 WWTF Long Term maintenance	100,000.00	100,000.00	100,000.00	100,000.00	0.00	100 %
	971 Loan Principal Payment	0.00	0.00	110,000.00	110,000.00	110,000.00	0 %
	972 Loan Interest Payment	0.00	0.00	110,000.00	110,000.00	110,000.00	0 %
	<b>Account Total:</b>	<b>172,806.20</b>	<b>172,806.20</b>	<b>1,248,574.00</b>	<b>1,248,574.00</b>	<b>1,075,767.80</b>	<b>14 %</b>
	<b>Account Group Total:</b>	<b>172,806.20</b>	<b>172,806.20</b>	<b>1,248,574.00</b>	<b>1,248,574.00</b>	<b>1,075,767.80</b>	<b>14 %</b>
	<b>Fund Total:</b>	<b>172,806.20</b>	<b>172,806.20</b>	<b>1,248,574.00</b>	<b>1,248,574.00</b>	<b>1,075,767.80</b>	<b>14 %</b>
50 WATER DEPARTMENT							
65000 Water							
65000 Water							
	105 Salaries and Wages	19,165.58	19,165.58	263,120.00	263,120.00	243,954.42	7 %
	109 Stand-by Hours	500.00	500.00	7,500.00	7,500.00	7,000.00	7 %
	111 BOD Stipend	836.00	836.00	4,600.00	4,600.00	3,764.00	18 %
	115 Payroll Expenses	418.84	418.84	3,400.00	3,400.00	2,981.16	12 %
	120 Workers' Compensation	8,503.67	8,503.67	10,000.00	10,000.00	1,496.33	85 %
	121 Physicals	0.00	0.00	150.00	150.00	150.00	0 %
	135 Payroll Tax - FICA	170.55	170.55	4,000.00	4,000.00	3,829.45	4 %
	140 Payroll Tax - Medicare	297.13	297.13	4,000.00	4,000.00	3,702.87	7 %
	155 Payroll Tax - SUI	75.38	75.38	2,200.00	2,200.00	2,124.62	3 %
	205 Insurance - Health	2,505.85	2,505.85	40,000.00	40,000.00	37,494.15	6 %
	206 Insurance - CalPers Health Retiree	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	210 Insurance - Dental	127.32	127.32	2,100.00	2,100.00	1,972.68	6 %
	215 Insurance - Vision	24.63	24.63	350.00	350.00	325.37	7 %
	225 Retirement - PERS expense	2,032.12	2,032.12	33,000.00	33,000.00	30,967.88	6 %
	305 Operations and maintenance	167.38	167.38	8,000.00	8,000.00	7,832.62	2 %
	310 Phone and fax expense	110.10	110.10	1,100.00	1,100.00	989.90	10 %
	315 Postage, shipping and freight	266.10	266.10	3,500.00	3,500.00	3,233.90	8 %
	320 Printing and reproduction	201.04	201.04	2,500.00	2,500.00	2,298.96	8 %
	323 Financial Auditor	0.00	0.00	7,500.00	7,500.00	7,500.00	0 %
	324 Professional Svcs- GSA-GSP	0.00	0.00	15,000.00	15,000.00	15,000.00	0 %
	325 Professional Svcs - Accounting	0.00	0.00	4,600.00	4,600.00	4,600.00	0 %
	326 Professional Svcs - Engineering	217.50	217.50	30,000.00	30,000.00	29,782.50	1 %
	327 Professional Svcs - Legal (General)	0.00	0.00	30,000.00	30,000.00	30,000.00	0 %
	328 Insurance - Prop and Liability	20,979.91	20,979.91	20,000.00	20,000.00	-979.91	105 %
	329 New Hire Screening	0.00	0.00	100.00	100.00	100.00	0 %
	330 Contract Labor	0.00	0.00	5,000.00	5,000.00	5,000.00	0 %
	331 Professional Services - Legal (SMEA)	0.00	0.00	4,800.00	4,800.00	4,800.00	0 %
	332 Professional Services - Legal	0.00	0.00	70,000.00	70,000.00	70,000.00	0 %
	334 Maintenance Agreements	367.24	367.24	9,600.00	9,600.00	9,232.76	4 %
	335 Meals - Reimbursement	0.00	0.00	200.00	200.00	200.00	0 %
	340 Meetings and conferences	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	345 Mileage expense reimbursement	11.22	11.22	1,000.00	1,000.00	988.78	1 %



SAN MIGUEL COMMUNITY SERVICES DISTRICT  
Statement of Expenditure - Budget vs. Actual Report  
For the Accounting Period: 7 / 21

Fund Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% Committed
50 WATER DEPARTMENT							
	348 Safety Equipment and Supplies	0.00	0.00	1,500.00	1,500.00	1,500.00	0 %
	350 Repairs and maint - computers	50.73	50.73	1,600.00	1,600.00	1,549.27	3 %
	351 Repairs and maint - equip	2.15	2.15	4,000.00	4,000.00	3,997.85	0 %
	352 Repairs and maint - structures	248.20	248.20	2,000.00	2,000.00	1,751.80	12 %
	353 Repairs & Maint- Infrastructure	164.86	164.86	50,000.00	50,000.00	49,835.14	0 %
	354 Repairs and maint - vehicles	532.67	532.67	3,000.00	3,000.00	2,467.33	18 %
	356 Testing & Supplies - Well #3 (Water)	373.00	373.00	3,500.00	3,500.00	3,127.00	11 %
	357 Testing & Supplies - Well #4 (Water)	90.00	90.00	3,500.00	3,500.00	3,410.00	3 %
	358 Testing & Supplies- SLT Well (Water)	469.00	469.00	6,000.00	6,000.00	5,531.00	8 %
	359 Testing & Supplies-Other	395.00	395.00	6,000.00	6,000.00	5,605.00	7 %
	362 Cross-Connection Control Srvcs.	104.50	104.50	1,000.00	1,000.00	895.50	10 %
	375 Internet expenses	113.73	113.73	2,500.00	2,500.00	2,386.27	5 %
	376 Webpage- Upgrade/Maint	900.00	900.00	1,000.00	1,000.00	100.00	90 %
	380 Utilities - Alarm Service	55.50	55.50	650.00	650.00	594.50	9 %
	381 Utilities - electric	5,016.55	5,016.55	45,452.00	45,452.00	40,435.45	11 %
	382 Utilities - propane	0.00	0.00	750.00	750.00	750.00	0 %
	383 Utilities - trash	51.99	51.99	800.00	800.00	748.01	6 %
	384 Utilities - Water/Sewer	17.96	17.96	500.00	500.00	482.04	4 %
	385 Dues and subscriptions	143.13	143.13	4,000.00	4,000.00	3,856.87	4 %
	386 Education and training	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	393 Advertising and public notices	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	394 LAFCO Allocations	1,210.52	1,210.52	1,600.00	1,600.00	389.48	76 %
	395 Community Outreach	0.00	0.00	1,200.00	1,200.00	1,200.00	0 %
	396 Utilities SoCalGas	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	410 Office Supplies	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	459 Scada - Maintenance Fees	0.00	0.00	1,500.00	1,500.00	1,500.00	0 %
	465 Cell phones, radios and pagers	107.92	107.92	1,500.00	1,500.00	1,392.08	7 %
	481 Chemicals- Well #3	568.12	568.12	4,000.00	4,000.00	3,431.88	14 %
	482 Chemicals-Well #4	734.16	734.16	4,000.00	4,000.00	3,265.84	18 %
	483 Chemicals-SLT Well	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	485 Fuel expense	616.24	616.24	4,000.00	4,000.00	3,383.76	15 %
	490 Small tools and equipment	0.00	0.00	6,000.00	6,000.00	6,000.00	0 %
	495 Uniform expense	96.36	96.36	1,800.00	1,800.00	1,703.64	5 %
	520 Water Main Valves Replacement	0.00	0.00	10,000.00	10,000.00	10,000.00	0 %
	525 Water meter replacement	6,250.64	6,250.64	20,000.00	20,000.00	13,749.36	31 %
	526 Development Meters	0.00	0.00	15,000.00	15,000.00	15,000.00	0 %
	535 Water Lines Repairs	0.00	0.00	20,000.00	20,000.00	20,000.00	0 %
	582 WWTP Plant Maintenance	0.00	0.00	10,000.00	10,000.00	10,000.00	0 %
	590 CALOES Resiliency Grant	0.00	0.00	230,000.00	230,000.00	230,000.00	0 %
	605 USDA Loan Payment	0.00	0.00	20,000.00	20,000.00	20,000.00	0 %
	715 Licenses, permits and fees	406.70	406.70	6,500.00	6,500.00	6,093.30	6 %
	930 Interest Fees	0.00	0.00	60,000.00	60,000.00	60,000.00	0 %
	940 Bank service charges	35.10	35.10	0.00	0.00	-35.10	*** %
	<b>Account Total:</b>	<b>75,732.29</b>	<b>75,732.29</b>	<b>1,153,172.00</b>	<b>1,153,172.00</b>	<b>1,077,439.71</b>	<b>7 %</b>
	<b>Account Group Total:</b>	<b>75,732.29</b>	<b>75,732.29</b>	<b>1,153,172.00</b>	<b>1,153,172.00</b>	<b>1,077,439.71</b>	<b>7 %</b>
	<b>Fund Total:</b>	<b>75,732.29</b>	<b>75,732.29</b>	<b>1,153,172.00</b>	<b>1,153,172.00</b>	<b>1,077,439.71</b>	<b>7 %</b>

Fund Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% Committed
60 SOLID WASTE DEPARTMENT							
66000 SOLID WASTE							
66000 SOLID WASTE							
	105 Salaries and Wages	947.33	947.33	13,810.00	13,810.00	12,862.67	7 %
	111 BOD Stipend	44.00	44.00	240.00	240.00	196.00	18 %
	115 Payroll Expenses	22.34	22.34	250.00	250.00	227.66	9 %
	120 Workers' Compensation	370.32	370.32	500.00	500.00	129.68	74 %
	135 Payroll Tax - FICA	8.28	8.28	250.00	250.00	241.72	3 %
	140 Payroll Tax - Medicare	14.28	14.28	250.00	250.00	235.72	6 %
	155 Payroll Tax - SUI	3.63	3.63	200.00	200.00	196.37	2 %
	205 Insurance - Health	136.50	136.50	2,000.00	2,000.00	1,863.50	7 %
	210 Insurance - Dental	6.10	6.10	200.00	200.00	193.90	3 %
	215 Insurance - Vision	1.05	1.05	200.00	200.00	198.95	1 %
	225 Retirement - PERS expense	108.53	108.53	2,000.00	2,000.00	1,891.47	5 %
	305 Operations and maintenance	0.00	0.00	2,000.00	2,000.00	2,000.00	0 %
	310 Phone and fax expense	0.00	0.00	100.00	100.00	100.00	0 %
	315 Postage, shipping and freight	0.16	0.16	100.00	100.00	99.84	0 %
	320 Printing and reproduction	0.00	0.00	500.00	500.00	500.00	0 %
	323 Financial Auditor	0.00	0.00	400.00	400.00	400.00	0 %
	325 Professional Svcs - Accounting	0.00	0.00	250.00	250.00	250.00	0 %
	327 Professional Svcs - Legal (General)	0.00	0.00	1,600.00	1,600.00	1,600.00	0 %
	328 Insurance - Prop and Liability	694.32	694.32	1,000.00	1,000.00	305.68	69 %
	330 Contract Labor	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	331 Professional Services - Legal (SMEA)	0.00	0.00	500.00	500.00	500.00	0 %
	334 Maintenance Agreements	19.35	19.35	400.00	400.00	380.65	5 %
	335 Meals - Reimbursement	0.00	0.00	200.00	200.00	200.00	0 %
	340 Meetings and conferences	0.00	0.00	200.00	200.00	200.00	0 %
	345 Mileage expense reimbursement	0.43	0.43	100.00	100.00	99.57	0 %
	348 Safety Equipment and Supplies	0.00	0.00	500.00	500.00	500.00	0 %
	350 Repairs and maint - computers	2.66	2.66	150.00	150.00	147.34	2 %
	351 Repairs and maint - equip	0.00	0.00	1,000.00	1,000.00	1,000.00	0 %
	352 Repairs and maint - structures	0.00	0.00	100.00	100.00	100.00	0 %
	353 Repairs & Maint- Infrastructure	1,290.92	1,290.92	1,000.00	1,000.00	-290.92	129 %
	354 Repairs and maint - vehicles	0.00	0.00	200.00	200.00	200.00	0 %
	375 Internet expenses	0.00	0.00	200.00	200.00	200.00	0 %
	376 Webpage- Upgrade/Maint	48.00	48.00	0.00	0.00	-48.00	*** %
	382 Utilities - propane	0.00	0.00	100.00	100.00	100.00	0 %
	383 Utilities - trash	0.00	0.00	200.00	200.00	200.00	0 %
	384 Utilities - Water/Sewer	0.00	0.00	500.00	500.00	500.00	0 %
	385 Dues and subscriptions	1.35	1.35	150.00	150.00	148.65	1 %
	386 Education and training	0.00	0.00	500.00	500.00	500.00	0 %
	393 Advertising and public notices	0.00	0.00	500.00	500.00	500.00	0 %
	394 LAFCO Allocations	1,210.52	1,210.52	1,600.00	1,600.00	389.48	76 %
	395 Community Outreach	0.00	0.00	750.00	750.00	750.00	0 %
	410 Office Supplies	0.00	0.00	150.00	150.00	150.00	0 %
	465 Cell phones, radios and pagers	5.87	5.87	150.00	150.00	144.13	4 %
	485 Fuel expense	0.00	0.00	200.00	200.00	200.00	0 %
	490 Small tools and equipment	0.00	0.00	500.00	500.00	500.00	0 %
	495 Uniform expense	4.00	4.00	200.00	200.00	196.00	2 %
	<b>Account Total:</b>	<b>4,939.94</b>	<b>4,939.94</b>	<b>36,900.00</b>	<b>36,900.00</b>	<b>31,960.06</b>	<b>13 %</b>

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SAN MIGUEL COMMUNITY SERVICES DISTRICT  
Statement of Expenditure - Budget vs. Actual Report  
For the Accounting Period: 7 / 21

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Report ID: B100C

<b>Fund Account</b>	<b>Object</b>	<b>Committed Current Month</b>	<b>Committed YTD</b>	<b>Original Appropriation</b>	<b>Current Appropriation</b>	<b>Available Appropriation</b>	<b>% Committed</b>
60 SOLID WASTE DEPARTMENT							
	<b>Account Group Total:</b>	4,939.94	4,939.94	36,900.00	36,900.00	31,960.06	13 %
	<b>Fund Total:</b>	4,939.94	4,939.94	36,900.00	36,900.00	31,960.06	13 %
	<b>Grand Total:</b>	309,484.72	309,484.72	3,051,086.00	3,051,086.00	2,741,601.28	10 %

SAN MIGUEL COMMUNITY SERVICES DISTRICT  
Cash Report  
For the Accounting Period: 7/21

Fund/Account	Beginning Balance	Received	Transfers In	Disbursed	Transfers Out	Ending Balance
<b>20 FIRE PROTECTION DEPARTMENT</b>						
10200 Operating Cash - Premier	146,105.85	479,939.88	0.00	1,694.92	110,091.70	514,259.11
10250 Pac Premier - Payroll	-359.66	1,694.92	20,598.99	12,548.59	3,186.71	6,198.95
10340 Pac Premier Operational Reserve	571,678.21	2,762.33	0.00	479,935.00	0.00	94,505.54
10350 Pac Premier- Capital Reserve	306,128.88	53,029.62	0.00	0.00	0.00	359,158.50
<b>Total Fund</b>	<b>1,023,553.28</b>	<b>537,426.75</b>	<b>20,598.99</b>	<b>494,178.51</b>	<b>113,278.41</b>	<b>974,122.10</b>
<b>30 STREET LIGHTING DEPARTMENT</b>						
10200 Operating Cash - Premier	188,317.27	0.42	0.00	0.00	93,620.49	94,697.20
10250 Pac Premier - Payroll	510.57	0.00	1,285.54	858.74	568.15	369.22
10340 Pac Premier Operational Reserve	150,213.28	11.78	0.00	0.00	0.00	150,225.06
10350 Pac Premier- Capital Reserve	161,559.01	20.58	88,000.00	0.00	0.00	249,579.59
10460 Cantella & Co. Investment Acct.	160,052.09	147.01	0.00	974.15	0.00	159,224.95
<b>Total Fund</b>	<b>660,652.22</b>	<b>179.79</b>	<b>89,285.54</b>	<b>1,832.89</b>	<b>94,188.64</b>	<b>654,096.02</b>
<b>40 WASTEWATER DEPARTMENT</b>						
10200 Operating Cash - Premier	948,332.53	-1,627.54	1,324.48	0.00	274,596.47	673,433.00
10250 Pac Premier - Payroll	13,968.50	0.00	21,203.92	14,547.93	9,965.44	10,659.05
10260 Pac Western Bank --Long Term	100,039.42	100,004.52	0.00	0.00	0.00	200,043.94
10340 Pac Premier Operational Reserve	180,255.36	43.30	100,000.00	0.00	0.00	280,298.66
10350 Pac Premier- Capital Reserve	917,757.78	75.70	0.00	0.00	0.00	917,833.48
<b>Total Fund</b>	<b>2,160,353.59</b>	<b>98,495.98</b>	<b>122,528.40</b>	<b>14,547.93</b>	<b>284,561.91</b>	<b>2,082,268.13</b>
<b>50 WATER DEPARTMENT</b>						
10150 Cash in SLO County	76,655.36	0.00	0.00	0.00	0.00	76,655.36
10200 Operating Cash - Premier	250,299.18	102,737.06	5,467.16	0.10	227,421.72	131,081.58
10250 Pac Premier - Payroll	-7,293.47	0.00	27,839.45	19,023.85	18,289.46	-16,767.33
10340 Pac Premier Operational Reserve	25,259.41	14.89	130,000.00	0.00	0.00	155,274.30
10350 Pac Premier- Capital Reserve	315,478.28	26.02	0.00	0.00	0.00	315,504.30
10400 HOB - USDA Reserve	66,968.38	0.57	0.00	0.00	0.00	66,968.95
<b>Total Fund</b>	<b>727,367.14</b>	<b>102,778.54</b>	<b>163,306.61</b>	<b>19,023.95</b>	<b>245,711.18</b>	<b>728,717.16</b>
<b>60 SOLID WASTE DEPARTMENT</b>						
10200 Operating Cash - Premier	47,546.09	0.42	0.00	0.00	14,953.28	32,593.23
10250 Pac Premier - Payroll	794.52	0.00	1,314.19	903.95	608.98	595.78
10340 Pac Premier Operational Reserve	62,258.30	1.23	10,000.00	0.00	0.00	72,259.53
10350 Pac Premier- Capital Reserve	26,066.43	2.15	0.00	0.00	0.00	26,068.58
<b>Total Fund</b>	<b>136,665.34</b>	<b>3.80</b>	<b>11,314.19</b>	<b>903.95</b>	<b>15,562.26</b>	<b>131,517.12</b>
<b>73 CLAIMS CLEARING FUND</b>						
10200 Operating Cash - Premier	42,645.18	0.00	319,117.09	0.00	0.00	361,762.27
10250 Pac Premier - Payroll	0.00	0.00	27,151.58	27,151.58	0.00	0.00
<b>Total Fund</b>	<b>42,645.18</b>		<b>346,268.67</b>	<b>27,151.58</b>		<b>361,762.27</b>
<b>Totals</b>	<b>4,751,236.75</b>	<b>738,884.86</b>	<b>753,302.40</b>	<b>557,638.81</b>	<b>753,302.40</b>	<b>4,932,482.80</b>

\*\*\* Transfers In and Transfers Out columns should match, with the following exceptions:

- 1) Cancelled electronic checks increase the Transfers In column. Disbursed column will be overstated by the same amount and will not balance to the Redeemed Checks List.
- 2) Payroll Journal Vouchers including local deductions with receipt accounting will reduce the Transfers Out column by the total amount of these checks.



## San Miguel Community Services District

### Board of Directors Staff Report

August 26<sup>th</sup> 2021

**AGENDA ITEM: XI-2**

**SUBJECT:** Presentation and Discussion on Status of the Machado Wastewater Treatment Facility Upgrade Project.

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**RECOMMENDATION:** Receive and Discuss Machado Wastewater Treatment Facility Upgrade Project Status.

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District Engineer Blaine Reely will provide a presentation on the Machado Wastewater Treatment Facility Upgrade Project Status.

Questions and discussion will be held after the presentation.

#### **FISCAL IMPACT**

No impact resulting from discussing this information.

PREPARED BY:

*Kelly Dodds* \_\_\_\_\_

Kelly Dodds, Director of Utilities



## San Miguel Community Services District

### Board of Directors Staff Report

August 26, 2021

AGENDA ITEM: XI-3

**SUBJECT:** Discussion and Consideration by the Board of Directors of the San Miguel Community Services District to approve the Request for Proposals (RFP) & Technical Specifications for the Wastewater Treatment Facility Upgrade & Expansion Headworks Screening and Grit Removal Equipment and authorize the Director of Utilities to advertise for qualified cost proposals.

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**RECOMMENDATION:**

Discuss and authorize Director of Utilities to advertise for cost proposals from qualified Headworks Screening and Grit Removal Equipment vendors.

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**BACKGROUND:**

On October 21, 2019, the District directed the District Engineer, Monsoon Consultants, to provide project management assistance and coordinate the design development for the Machado WWTF Renovation & Expansion Project. This upgrade will eventually provide the DISTRICT with the capacity to produce and convey a supply of high-quality effluent that will meet California Title 22 requirements for non-contact irrigation of vineyards and / or indirect recharge to the groundwater aquifer, with an initial average day dry weather flow capacity of 0.325 Million Gallons per Day (MGD) and the capacity for modular expansion of the MBR system to 0.50 MGD in the future. A major component of the project is the Headworks Screening and Grit removal Equipment (Headworks). Monsoon Consultants has developed the design parameters and technical specifications for the Headworks, and this component of the project is now ready to proceed to the vendor selection phase. A Request for Proposals (RFP) and Technical Specifications have been prepared for the Headworks Equipment and is ready for cost proposal solicitation. The Engineers Estimate for the Headworks with factory testing, start-up, commissioning, and operator training is approximately \$375,000. The DISTRICT is working with the USDA and DWR to secure funding for the overall project, including the work to be performed in conjunction with Wastewater Treatment Facility Upgrade & Expansion.

**FUNDING:**

No funding request is made in conjunction with this item. Funds for covering the cost of publication of the Advertisement for cost proposals are included in the current District Budget.

**FISCAL IMPACT**

There will be costs associated with the publication of the advertisement for cost proposals Notification will be advertised per District Policy.

PREPARED BY:

APPROVED BY:

*Blaine T. Reely*

*Kelly Dodds*

Blaine T. Reely, P.E., District Engineer

Kelly Dodds, Director of Utilities

**Attachments:** Headworks Screening and Grit Removal Equipment RFP

**REQUEST FOR BIDS  
FOR  
SAN MIGUEL COMMUNITY SERVICES  
DISTRICT WASTEWATER  
TREATMENT FACILITY UPGRADE &  
EXPANSION  
HEADWORKS SCREENING & GRIT  
REMOVAL EQUIPMENT**

**AUGUST 26, 2021**



SAN MIGUEL COMMUNITY SERVICES DISTRICT  
1150 Mission Street  
San Miguel, California 93451

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- APPENDIX C Preliminary WWTF Piping Plan and Headworks Schematic Drawings
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## Instructions to BIDDER

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The San Miguel Community Services District (DISTRICT) is soliciting bids from qualified vendors to provide equipment packages, test & adjust, start-up, and provide operator training for headworks equipment, including mechanically cleaned influent bar screen, washer compactor, and screw conveyor systems, to be installed in a new headworks facility which will be a critical component of the upgrade and expansion of the DISTRICT's Machado Wastewater Treatment Facility (WWTF) and new recycled water ("purple pipe") distribution system. Additionally, the vendor shall provide a new and vortex-type grit removal system which will be installed upstream on the new pre-engineered package MBR treatment plant (MBR plant to be supplied by others). This upgrade will eventually provide the DISTRICT with the capacity to produce and convey a supply of high-quality effluent that will meet California Title 22 requirements for non-contact irrigation of vineyards and / or indirect recharge to the groundwater aquifer, with an initial average day dry weather flow capacity of 0.325 Million Gallons per Day (MGD) and a capacity expansion of the WWTF to 0.50 MGD in the future.

NOTE: THIS SOLICITATION IS FOR THE PROCUREMENT OF THE REFERENCED HEADWORKS EQUIPMENT, TECHNICAL SUPPORT DURING THE FINAL DESIGN & ENGINEERING PROCESS, AND PROVIDING THE POST-INSTALLATION SERVICES TO INCLUDE TEST & ADJUST, START-UP, AND PROVIDE OPERATOR TRAINING FOR HEADWORKS EQUIPMENT. THE INSTALLATION OF THE EQUIPMENT SHALL BE BY OTHERS.

The project is located at 1765 Bonita Place on the northern edge of the community of San Miguel. A Project Location Map is included in Figure 1.

It is anticipated this project may be financed in part through the California Clean Water State Revolving Fund Program (CWSRF), the USDA Rural Development Water & Waste Disposal Loan & Grant Program, and other sources of state and/or federal funding. All products and work provided must meet the requirements for state and federal funding. All applicable prevailing wage laws and reporting requirements must be adhered to by the vendor and all sub-contractors and suppliers.

Only properly executed bids submitted on the forms furnished will be accepted. The DISTRICT reserves the right to reject any or all bids, to waive any informality, to accept any bid deemed to be responsive in the best interest of the DISTRICT and reserves the right to re-advertise for new bids.

All bids must be received no later than **September 17, 2021, at 12:00PM (PDT)** at the DISTRICT offices which are located at 1150 Mission Street San Miguel, California 93451. By submitting a bid for the requested services, each Offeror is certifying that it is a qualified business entity, and its bid complies with regulations and requirements stated within the Request for Bids.

A Pre-Bid Conference will be held on **September 9, 2021, at 10:00AM (PDT)** at the DISTRICT offices which are located at 1150 Mission Street San Miguel, California 93451. For any firm that intends to submit a bid, attendance at the Pre-bid conference is mandatory.

EQUAL EMPLOYMENT OPPORTUNITY: All qualified Offeror's will receive consideration of contract(s) without regard to race, color, religion, sex or national origin, ancestry, age, physical and mental handicap, serious medical conditions, disability, spousal affiliation, sexual orientation, or gender identity.

Request for bids will be available by contacting Kelly Dodds, Director of Utilities at 1150 Mission Street San Miguel, California 93451, by telephone at (805) 467-3388, or by email at

kelly.dodds@sanmiguelcsd.org. RFB's will also be available for via the DISTRICT website at [www.sanmiguelcsd.org](http://www.sanmiguelcsd.org).

**BIDS RECEIVED AFTER THE DATE AND TIME SPECIFIED ABOVE WILL NOT BE CONSIDERED AND WILL BE REJECTED BY THE DISTRICT.**

## Project Information

The DISTRICT proposes to upgrade/expand its current WWTF to produce effluent that will meet or exceed permitting requirements per the Regional Board and Title 22 requirements as a non-edible contact irrigation source. When the new WWTF comes online, the SMCSD will be able to supply treated effluent to large vineyard operations in the immediate vicinity of the SMCSD, as well as potentially provide irrigation water supplies to parks, schools, HOA's, and residential / commercial water users within the SMCSD boundary. This treated effluent supply (via a "purple pipe" distribution system) will directly offset the use of fresh groundwater, thereby decreasing the amount of groundwater being pumped from the Paso Robles Subbasin, not only by the SMCSD but also by adjacent vineyard operations.

The new headworks will receive the influent wastewater from a single eighteen-inch diameter (18") gravity sanitary sewer pipeline that convey all of the wastewater produced from the area of San Miguel which is located on the west side of the Salinas River. The new headworks will be equipped with new equipment, including mechanically cleaned influent bar screen, washer compactor, and screw conveyor, along with all necessary appurtenant equipment to provide for a fully functioning system. Flow through the new headworks will be under gravity conditions and will discharge into a new influent lift station which will then convey the discharge from the headworks to a new MBR Treatment System (Headworks equipment). Additionally, the vendor shall provide a new and vortex-type grit removal system which will be installed upstream on the new pre-engineered package MBR treatment plant (MBR plant to be supplied by others). All new headworks equipment and grit removal equipment to be supplied in conjunction with this RFB, shall be equipped with control systems that are capable of being connected to and integrated into the DISTRICT's SCADA system and the SCADA controls of the proposed MBR.

### HEADWORKS EQUIPMENT

The new Headworks equipment shall consist of, but not limited to, the following systems and all equipment, interconnecting piping, conduit, electrical and controls wiring, and instrumentation necessary to provide a fully functional system as indicated herein.

1. Mechanically Cleaned Bar Screen for Wastewater (Section 462116)
2. Washer Compactor and Conveyor (Section 462173)
3. Vortex-Type Grit Removal System (Section 462323)
4. Headworks Remote Control Panel (Section 17550)

#### General:

All equipment shall be comprised of materials that are suitable for use in a municipal wastewater treatment plant environment. All component parts must be identifiable with original manufacturer tags and/or nameplates intact upon headworks startup.

The headworks structure, along with electrical power and control conduits to the new headworks will be constructed by others. A General Contractor to be selected by the DISTRICT will be responsible for the installation of the headworks equipment which is the subject of this RFB. The headworks equipment vendor shall coordinate with the General Contractor and DISTRICT staff to ensure that all equipment, power supply, controls and other points of connections are properly installed and connected.

## Headworks Equipment System Design Criteria

Influent wastewater flow characteristics and design criteria for the WWTF Headworks are summarized in **Tables 1-1 1-2, and 1-3.**

<b>TABLE 1-1 Headworks System Flow and Quality Design Criteria</b>		
<b>Constituent</b>	<b>Value</b>	<b>Unit</b>
Average Annual Flow (AAF)	325,000	gpd
Maximum Daily Flow (MDF)	487,500	gpd
Peak Daily Flow (PDF)	650,000	gpd
Peak Hour Flow (PHF)	900	gpm

<b>TABLE 1-2 WWTF INFLUENT QUALITY</b>		
<b>Constituent</b>	<b>Range</b>	<b>Unit</b>
BOD5	200-450	mg/l
TSS	100-450	mg/l
TKN	60-105	mg/l
NH3	40-85	mg/l
pH	6.5-7.8	
TURBIDITY	30-70	NTU

### Future Expansion

The new headworks equipment, including mechanically cleaned influent bar screen, washer compactor, and screw conveyor systems, to be installed in a new headworks facility and a new and vortex-type grit removal system which will be installed upstream of the new pre-engineered package MBR treatment plant (MBR plant to be supplied by others), shall be designed and configured to permit the future expansion of the system to meet the following flow and quality design criteria:

<b>TABLE 1-4 Headworks System Flow and Quality Design Criteria (Future)</b>		
<b>Constituent</b>	<b>Value</b>	<b>Unit</b>
Average Annual Flow (AAF)	500,000	gpd
Maximum Daily Flow (MDF)	750,000	gpd
Peak Daily Flow (PDF)	1,000,000	gpd
Peak Hour Flow (PHF)	1390	gpm

### Shop Drawings

The DISTRICT will authorize the headworks equipment vendor to coordinate with the DISTRICT's design engineer prepare a detailed set of shop drawings and equipment supply lists for the engineer to

incorporate into their design and the construction documentation package. The shop drawings will be used by the DISTRICT to coordinate the design of all related WWTF headworks component designs to ensure that the headworks system is properly integrated into the overall WWTF design.

During the design phase and prior to the start of equipment fabrication, the headworks equipment vendor shall submit satisfactory shop drawings (AutoCAD and PDF Format) to the DISTRICT for review. The DISTRICT reserves the right to review each shop drawing submittal for up to fifteen (15) calendar days. Shop drawing review time shall only include time expired while shop drawings are in DISTRICT'S possession. Shop drawings shall be revised and resubmitted if directed by the DISTRICT. Shop drawings and other submittals shall be in accordance with Section 01300 – SUBMITTALS and requirements of the equipment specification sections (Appendix D).

The quality and completeness of the shop drawings shall be such that no more than two submittals (initial submittal plus one re-submittal) are required. For additional submittals beyond this, the headworks equipment vendor may be asked to reimburse the cost of handling and DISTRICT ENGINEER'S reviews.

Engineering Support: The headworks equipment vendor shall provide design assistance, necessary drawings and sketches, and review design drawings during the design and construction documentation phases of the project. All costs for these engineering support services and shop drawing preparation / submittals shall be borne by the headworks equipment vendor and no separate payment shall be made to the headworks equipment vendor by the DISTRICT for this work.

#### Factory Testing, Equipment Delivery, Installation Support, Start-Up & On-Site Testing

The headworks equipment vendor shall be responsible for the satisfactory factory acceptance testing, off-loading, and storage, of all the headworks equipment components at the WWTF. The headworks equipment vendor shall also perform the factory testing, start-up, commissioning, performance testing, programming, and testing of the headworks equipment supplied. The equipment manufacturer shall provide the DISTRICT with a factory testing certificate to verify that a successful factory test was performed. Factory testing may be witnessed by the DISTRICT, at the discretion of the DISTRICT. The requirements for start-up, operations, troubleshooting, and maintenance of all headworks equipment components shall be clearly described in the headworks equipment vendor supplied Operations & Maintenance Manual(s). The headworks equipment vendor shall prepare all provided equipment so it will operate properly and safely and be ready to demonstrate functional integrity during the Demonstration Period. Procedures include but are not necessarily limited to the following:

Test or check and correct deficiencies of:

- (a) Power, control, and monitoring circuits for continuity prior to connection to power source.
  - (b) Voltage of all circuits.
  - (c) Phase sequence.
  - (d) Cleanliness of connecting piping systems.
  - (e) Alignment of connected machinery.
  - (f) Vacuum and pressure of all closed systems.
  - (g) Lubrication.
  - (h) Valve orientation and position status for manual operating mode.
  - (i) Instrumentation and control signal generation, transmission, reception, and response.
- Coordinate with DISTRICT for existing DISTRICT alarm and controls integration as well as

alarm and control integration with the proposed MBR, headworks, and influent / effluent lift stations.

(j) Tagging and identification systems.

- All equipment: Check for proper connections, alignment, calibration and adjustment.
- Calibrate all safety equipment.
- Manually rotate or move moving parts to assure freedom of movement.
- "Bump" start electric motors to verify proper rotation.
- Perform other tests, checks, and activities required to make the equipment ready for Demonstration Period.
- DISTRICT WWTF Operator Training: Conduct all personnel training after completion of Equipment Startup for the equipment for which training is being conducted.

#### Field Training Requirements

After the headworks equipment is successfully delivered, installed and started-up, tested and adjusted, the headworks equipment vendor shall provide training for the DISTRICT's WWTF operators in the proper operation, maintenance, troubleshooting and repair of the headworks equipment. The DISTRICT expects that most of the training will occur on-site, although where it is deemed appropriate by the DISTRICT, some training may occur at the headworks equipment vendor's facility or virtually. The headworks equipment training requirements shall be as follows:

- Training shall be a maximum of eight (8) hours.
- Notify each manufacturer specified for on-site training that the DISTRICT reserves the right to video record any or all training sessions. Organize each training session in a format compatible with video recording.
- Training instructor: Factory trained and experienced with giving both classroom and "hands-on" instructions on the specific equipment installed.
- Training instructors: Be on time. Session beginning and ending times to be coordinated with the DISTRICT and indicated on the schedule.
- Provide sufficient instruction materials, samples, and handouts for those in attendance.
- In the on-site training sessions, cover the information required in the Operation and Maintenance manuals and as follows:
  - Operation of equipment.
  - Lubrication of equipment.
  - Maintenance and repair of equipment.
  - Troubleshooting of equipment.
  - Preventive maintenance procedures.
  - Adjustments to equipment.
  - Inventory of spare parts.
  - Optimizing equipment performance.
  - Capabilities.
  - Operational safety.
  - Emergency situation response.
  - Takedown procedures (disassembly and assembly).
- Maintain a log of training provided including: Instructors, topics, dates, time, and attendance.
- Conduct quarterly visits and follow-up training by the headworks equipment technicians (a product representative is not acceptable) during the warranty period.



## Demonstration Period

### General:

- Demonstrate the functional integrity of the mechanical, electrical, and control interfaces of the respective equipment and components comprising the facility as evidence of Substantial Completion.
- Duration of Demonstration Period: 24 consecutive hours.
- If, during the Demonstration Period, any equipment or system fails or is inoperative, the demonstration of functional integrity will be deemed to have failed. In the event of failure, a new Demonstration Period will recommence after correction of the cause of failure. The new Demonstration Period shall have the same requirements and duration as the Demonstration Period previously conducted.
- Conduct the demonstration of functional integrity under full operational conditions while meeting effluent discharge parameters as listed in Table 1-3.
- DISTRICT will provide operational personnel to provide process decisions and input affecting plant performance. DISTRICT's assistance will be available only for process decisions. Contractor will perform all other functions including but not limited to equipment operation and maintenance until successful completion of the Demonstration Period.
- DISTRICT reserves the right to simulate operational variables, equipment failures, routine maintenance scenarios, etc., to verify the functional integrity of automatic and manual backup systems and alternate operating modes.
- DISTRICT reserves the right to operate any equipment during the period between substantial completion and final acceptance, while the headworks equipment vendor shall be permitted to make final repairs on items which do not impede the performance of the facility.
- Time of beginning and ending any Demonstration Period shall be agreed upon by Contractor, DISTRICT, and District Engineer in advance of initiating Demonstration Period.
- Throughout the Demonstration Period, provide knowledgeable personnel to answer DISTRICT's questions, provide final field instruction on select systems and to respond to any system problems or failures which may occur.
- Provide all labor, supervision, subcontractors, utilities, maintenance, equipment, vehicles, or any other item necessary to operate and demonstrate all systems being demonstrated.
- DISTRICT to provide any and all chemicals necessary for startup period. Vendor must coordinate chemical type and volumes in advance of testing and startup of headworks equipment.
- Upon successful completion of Demonstration Period, District Engineer will endorse certificate attesting to the successful demonstration, and citing the hour and date of the successful Demonstration Period of functional integrity as the effective date of Substantial Completion.

### EQUIPMENT VENDORS'S GENERAL WARRANTY AND GUARANTEE

- All equipment shall be guaranteed against defects in material and workmanship for a period of one year from the date of DISTRICT's final inspection and acceptance to the effect that any defective equipment shall be repaired or replaced without cost or obligation to the DISTRICT.
- Vendor warrants and guarantees to DISTRICT that all Work will be in accordance with the

Contract Documents and will not be defective. DISTRICT and its officers, directors, members, partners, employees, agents, consultants, and subcontractors shall be entitled to rely on representation of Contractor's warranty and guarantee.

- Vendor's warranty and guarantee hereunder excludes defects or damage caused by:
  - Abuse, modification, or improper maintenance or operation by persons other than Vendor, Subcontractors, Suppliers, or any other individual or entity for whom Vendor is responsible, or Normal wear and tear under normal usage.

#### INSTRUCTION (OPERATIONS AND MAINTENANCE) MANUALS

- The manufacturer's instruction, or O&M, manuals required by these Specifications shall be specific to this project and to the equipment being furnished.
- It is the intent that the instruction manuals be a complete document on the respective equipment item(s), independent of any separate shop drawing submittals, for the information and use by operation and maintenance personnel. As such, the manuals shall contain at a minimum, all approved shop drawing data necessary to describe the respective equipment and conform to the requirements of these Contract Documents, wiring diagrams and detailed circuit operation description, and performance curves and data.
- The index furnished for each manual shall address all of the content categories to facilitate their being located by the reader. Categories which are considered to be not applicable or not required shall be identified as such in the index.
- For each class of equipment or machinery identify the name, address and telephone number of the manufacturer, supplier and closest authorized service organization or company. Include this information at the beginning of each respective equipment manual.
- Include operations and maintenance manuals for individual components as appendices to the overall system manual.

#### PRE-SELECTION SUBMITTAL REQUIREMENTS

It is the intent that the DISTRICT will award a contract to the headworks equipment vendor(s) for the design, fabrication, delivery, installation support, start-up, testing, and DISTRICT operator training of the headworks equipment to be provided in accordance with this RFB.

The DISTRICT will be contracting with an independent GENERAL CONTRACTOR, to be selected separately, who will have responsibility for the overall WWTF renovation & expansion project. Coordination between the selected headworks equipment vendor and the WWTF GENERAL CONTRACTOR is required and shall be included in the Bid Price.

- The selected headworks equipment vendor shall assist the DISTRICT during the detailed design of the WWTF treatment processes, electrical and SCADA / process controls for integration of the headworks equipment into the overall WWTF renovation & expansion project design. Assistance shall consist of confirming the sizing and configuration of facilities, suppliers for ancillary equipment, power requirements and control interfaces with the overall plant facilities.
- To be considered as an approved headworks equipment vendor for the SMCSO Machado WWTF MBR, a vendor shall submit a qualifications and experience submittal for review by the DISTRICT by the date and time specified in this RFB. Qualifications & Experience Submittals packages received after this submittal deadline will not be considered. The Qualifications & Experience Submittals shall

demonstrate the Vendor's ability to meet the requirements of this RFB. The pre-selection submittal shall include the following information, in the order provided:

- Vendor Firm Information
  - Vendor Name, indicating whether Vendor is a corporation, partnership, sole proprietor, or other arrangement.
  - Primary contact person for the Vendor, including full name, address, telephone number, and email address, address/location of company/offices.
  - Brief description of Vendor's firm, including services provided, and link to available company web site.
- Experience Qualifications
  - Provide a list of three (3) municipal wastewater treatment facilities using Vendor's proposed headworks equipment. Experience listed should currently be in operation or have been in operation within the past 12 months. Include the name, contact person, telephone, email address. Vendor's references shall be for facilities of comparable size, complexity, and scope of the DISTRICT's Machado WWTF with similar influent flows and wastewater character, using comparable equipment to that specified for the Machado WWTF MBR. References shall be of similar nature for process design, size, and equipment scope.
- Technical Information
  - Overall process description describing equipment along with solids and liquid handling requirements.
  - Include a process control description explaining how the system will be controlled to meet the specified effluent requirements.
  - Dimensioned drawings depicting proposed layout of process equipment on site.
  - Equipment list outlining detailed equipment specifics, such as motor size, for each piece of equipment supplied in the treatment system package.
  - Technical data sheets for headworks equipment components.
  - A complete list of exceptions to the specifications.
  - Equipment Lead Time from receipt of order to shipping to site.
  - Maintenance schedule including recommended spare parts for 1 year and 5 years operation.

#### DISTRICT SELECTION OF HEADWORKS EQUIPMENT VENDOR

DISTRICT and DISTRICT Engineer will promptly review the bid materials from each qualified proposer within 14 calendar days after bid opening.

A. Selection of headworks equipment vendor will be based to responsive and responsible bidder submitting the bid that the DISTRICT deems the best overall value, regardless of price, which complies with the plans, specifications, and conditions of the Contract Documents.

B. DISTRICT and DISTRICT Engineer reserve the right to contact any vendor who submitted a bid to clarify any portions of their submittal deemed necessary to validate that the proposed equipment meets the specifications. Any additional information requested of a vendor shall be submitted within 24 hours of the request. Failure to provide requested information within the 24-hour period shall have the bid determined as non-responsive and shall not be considered for further action.

C. The contract will be granted to the responsible bidder submitting the bid which the DISTRICT deems the best overall value, regardless of price, which complies with the plans, specifications, and conditions of the Contract Documents. The bidder to whom the selection is made will be notified at the earliest practicable date. The DISTRICT reserves the right to reject any and all bids and to waive any informality in bids received whenever such rejections or waivers are in the interest of the DISTRICT.

Selection of a headworks equipment vendor may not be made unless sufficient funding is available. The DISTRICT's anticipated administrative and operation & maintenance costs may be used as a factor in the evaluation of bids and determination of selection.

D. The DISTRICT expressly reserves the right to reject any Vendor's submittal if it determines, at its sole discretion, that the business and technical organization, equipment, financial and other resources or other experience of the Vendor is not sufficiently qualified for the work proposed upon and, therefore, justifies such rejection.

## Requirements for BID

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### Anticipated Project Schedule

Following is the anticipated project schedule for equipment procurement. Please note that this represents the anticipated schedule and is subject to change.

ITEM	Start Date	End Date
Headworks Equipment Vendor Selection	8/26/2021	8/26/2021
Advertise RFP for Headworks Equipment	8/26/2021	9/17/2021
Review Proposals for Headworks Equipment	9/20/2021	10/1/2021
Negotiate Contract with Top Ranked Proposer	10/4/2021	10/19/2021
Contract Review and Board Authorization	10/20/2021	10/28/2021

### Project Specifications

It is the responsibility of the headworks equipment vendor to ensure they are in possession of complete and current sets of the Bid Documents and Project Specifications and to ensure they have acknowledged receipt of the RFB documents. For inquiries, see Section 2.3.

### Inquires

The DISTRICT will receive inquiries from headworks equipment vendors by way of a formal process.

All inquiries about the Work or the Bid Documents shall be directed, in writing by mail or email, and received by the DISTRICT least five (5) business days before the Submission Deadline. If sent by email; vendors who submit an inquiry by email should confirm that the email has been received by the DISTRICT. Inquiries received after this date may not be answered. Written inquiries must be directed to: Kelly Dodds, Director of Utilities at PO Box 180 San Miguel, California 93451, or by email at [kelly.dodds@sanmiguelcsd.org](mailto:kelly.dodds@sanmiguelcsd.org).

If the DISTRICT, in its sole discretion, determines that an inquiry will be of interest to all Headworks equipment vendors, it will be communicated in writing to all headworks equipment vendors by way of addendum. The source of the inquiry will be kept confidential.

**ALL QUESTIONS MUST BE RECEIVED ON OR BEFORE September 13<sup>th</sup>, 2021, 3:30PM (PDT).**

### Bid Addenda

The DISTRICT may extend the Submission Deadline by issuing an addendum at any time before the Submission Deadline or before the date and time previously specified in any addendum extending the Submission Deadline.

Where an error, discrepancy, or omission in the Bid Documents has been found, or where the DISTRICT determines that the Bid Documents require clarification, DISTRICT will issue an addendum that addresses the error, discrepancy, omission, or ambiguity.

Headworks equipment vendors are responsible for ensuring that they have received all addendums and that they have considered the effect of such addenda in formulating their Bid. Headworks equipment vendors must acknowledge having received each addendum in their Bid. Headworks equipment vendors should acknowledge having received each addendum and the date on which

each was received, in the space provided in the Bid Form for this purpose. Failure to acknowledge receipt of an addendum may render a Bid non-responsive. If a Bid is submitted before an addendum is issued, the DISTRICT will accept an emailed acknowledgement, provided the acknowledgement is submitted before the Submission Deadline. Headworks equipment vendors who submit an acknowledgement by email should confirm that the email has been received by the DISTRICT.

### Bid Amendments (including amendments to Bid amounts only)

Headworks equipment vendors may amend Bids submitted prior to the Submission Deadline (including amendments to the amounts in the Schedule of Prices) by submitting an amendment clearly identifying the change or by submitting a new Bid that clearly indicates that it is to replace the Bid previously submitted by the headworks equipment vendor.

All amendments to a submitted Bid must be in writing, submitted on the headworks vendors letterhead (or authorized representative), signed by the person(s) who signed the Bid Form, and must be submitted to the DISTRICT by:

- i) mail or delivery to: Kelly Dodds, Director of Utilities at PO Box 180 San Miguel, California 93451.
- ii) email to: [kelly.dodds@sanmiguelcsd.org](mailto:kelly.dodds@sanmiguelcsd.org).

If headworks equipment vendor wishes to submit an amendment to the amount(s) in the Schedule of Prices only (without submitting a new Bid to replace the Bid previously submitted by the Headworks equipment vendor), and wish to submit the amendment by email, the amendment to the amount(s) in the Schedule of Prices must not reveal the original amount(s) or the revised amount(s). The amendment must only state the amount(s) to be added or deducted from the original amount(s) in the Schedule of Prices.

It will be solely the responsibility of the Headworks equipment vendor to ensure that any amendment is received prior to the Submission Deadline.

The DISTRICT will not accept responsibility for the content of amendments, or amendments that are, for any reason, not received, are delayed, illegible or otherwise improperly received. The DISTRICT may disregard amendments that are improperly received.

### Withdrawal of Bid

Headworks equipment vendors may withdraw a Bid submitted in response to this Request for Bids by submitting a request to withdraw in writing to the DISTRICT by no later than the Submission Deadline.

All requests to withdraw a submitted Bid must be in writing, submitted on the headworks equipment vendor letterhead, signed by the person(s) who signed the Bid Form, and must be submitted to the DISTRICT by:

- i) mail or delivery to: Kelly Dodds, Director of Utilities at PO BOX 180 San Miguel, California 93451.
- ii) email to: [kelly.dodds@sanmiguelcsd.org](mailto:kelly.dodds@sanmiguelcsd.org).

It will be solely the responsibility of the headworks equipment vendor to ensure that a request to withdraw is received prior to the Submission Deadline.

## Substitutes as Approved Equals

The Work is based on the equipment, material, or methods (including make, model or trade name or catalogue reference) specified in the Technical Specifications.

Substitutions as an “approved equal” shall only be allowed if application has been made to and prior approval has been granted by the DISTRICT in writing.

Requests for approval of a substitute as an approved equal will not be considered unless received in writing by the DISTRICT at least ten (10) business days before the Submission Deadline.

Headworks equipment vendors shall ensure that any and all requests for approval of a substitute as an approved equal:

- i) Provide sufficient information and details to enable the Engineer to determine the acceptability of the Equipment, Material or method as an approved equal; and
- ii) Certify that the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed construction schedule and the dates specified in the Bid Form for Substantial Performance.

The DISTRICT, after assessing the request for approval of a substitute, may in their sole discretion grant approval for the use of a substitute as an approved equal or may refuse to grant approval of the substitute.

The DISTRICT will provide a response in writing, at least five (5) business days prior to the Submission Deadline, only to the headworks equipment vendor who requested approval of the substitute as an approved equal. The headworks equipment vendor requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons they wish to inform.

If the DISTRICT approves a substitute as an approved equal, any headworks equipment vendor may use the approved equal in place of the specified item.

## Private Opening of Bids

Bids shall be opened privately and scored by the DISTRICT and DISTRICT Engineer.

## Bid Submission

Each headworks equipment vendor shall submit one (1) hard copy and one (1) electronic copy on a USB drive of the bid (in pdf format) and shall include two (2) copies of the Financial bid in a sealed envelope. Emailed copies of the bid shall not be permitted.

Bid packet should be clearly marked as follows:

**Title: San Miguel Community Services District Wastewater Treatment Headworks Equipment Bid (DO NOT OPEN)**

**Attn: Kelly Dodds, Director of Utilities**

The Bid submission must consist of the following two separate components, using the forms and information provided herein:

- Appendix A - Bid Form
- Appendix B – Previous Installation Forms
- Appendix C – Preliminary WWTF Site / Yard Piping Plans
- Appendix D – Technical Specifications

The headworks equipment supplier bid shall contain all written correspondence from the DISTRICT approving any substitutions. The Bid Package shall be submitted in a separate sealed envelope, with the name of the headworks equipment vendor and Project Title and Financial Bid clearly marked.

### Deadline

The bids shall be received at the DISTRICT offices, located at 1150 Mission Street San Miguel, California 93451, no later than **12:00PM (Pacific Daylight Time) on Friday, September 17th, 2021**. Bid should be clearly marked as follows:

Title: **San Miguel Community Services District Wastewater Treatment Facility Headworks Equipment Bid (DO NOT OPEN)**

Headworks Equipment Vendor Name / Address / Telephone Number

### Delivery

Bids are to be mailed or delivered to the following address:

Mailing Address:

San Miguel Community Services District  
PO Box 180  
San Miguel, CA 93451  
Attn: Kelly Dodds, Director of Utilities

Physical Delivery Address:

San Miguel Community Services District  
1150 Mission Street  
San Miguel, CA 93451

Bids submitted by facsimile transmission (fax) or email will not be accepted.

Bids must be received no later than the Submission Deadline at the above address. Bids received after the Submission Deadline will not be accepted and will be returned to the headworks equipment vendor unopened.

Bids must consist of the components as further described in this RFB and should be submitted in a sealed envelope or package, clearly marked on the outside with the name and address of the headworks equipment vendor and Project Name.

It is solely the Headworks equipment vendor's responsibility to ensure that the headworks equipment vendor Bid is received at the designated location prior to the Submission Deadline.



## Bid Form

The Headworks equipment vendor must complete the Bid Form (using Bid Forms in **Appendix A**), making all required entries.

No change shall be made in the wording of the Bid Form.

The Bid Form must be signed and dated by the headworks equipment vendor (or authorized representative). The name and official capacity of the person(s) signing the Bid Form must be printed below the signature(s).

The Financial Bid Form shall be submitted in a separate sealed envelope with the name of the project and the company submitting the bid clearly marked on the envelope.

In the case of a discrepancy between the Request for Bid (RFP) document issued by the DISTRICT and the bid submitted by the Headworks equipment vendor, the RFP shall govern, unless specifically stated as an exception taken to the RFP document. The DISTRICT shall not be held responsible for failure to provide the minimum standard as established and required by the RFP.

## Schedule of Prices

Headworks equipment vendors must complete the Schedule of Prices (using Bid Forms in **Appendix A**) by showing:

- A unit price for each item for which a quantity is given;
- A lump sum price for each lump sum item given; and
- The total Bid price.
  - Prices shall be quoted in US funds.
  - The unit or lump sum prices quoted shall be all inclusive, and shall include:
    - The cost of the various items of Work as set forth in the Contract;
    - The cost to furnish all Materials (except as otherwise provided in the Contract);
    - The cost to furnish all equipment, labor, transportation, and incidentals necessary for the proper completion of the Work which the headworks equipment vendor is required to do in accordance with the terms and conditions of the Contract; and
    - All insurance, Worker's Compensation, Vendor overhead & profit, and all other charges, costs, and assessments.
- The quantities for which payment are made will be based on the Work actually performed and completed by the Headworks equipment vendor, as measured and determined by the DISTRICT in accordance with the applicable Specifications, Measurement and Payment provisions and the General Conditions.
- The DISTRICT reserves the right to include an Extra Work Allowance in the Schedule of Prices in an amount specified by the DISTRICT. If an Extra Work Allowance is included, headworks equipment vendor shall include it in the total Bid price. The Extra Work Allowance shall be used to account for payment for Changes in the Work, if any, in accordance with the General Conditions for Supply Contracts.

## Qualifications of Headworks Equipment Vendor

As part of its evaluation of the Bids, the DISTRICT may require headworks equipment vendor to submit the following additional information:

- Proof that the Headworks equipment vendor is financially capable of carrying out the terms of the Contract;
- Proof that the headworks equipment vendor has successfully carried out works of a similar nature or is fully capable of performing the Work in accordance with the Contract and Equipment Technical Specifications in **Appendix D**;
- Any other information requested by the DISTRICT.

Headworks equipment vendor must be prepared to submit, within five (5) business days of a request by the DISTRICT, proof satisfactory to the DISTRICT of the qualifications of the headworks equipment vendor as listed above.

Failure to provide the information requested by the DISTRICT within time frame set out may result in the Bid being considered non-responsive in accordance with these documents.

## Irrevocable Bids

Bids shall be irrevocable and open for acceptance for the time period specified on the Bid Form.

The acceptance by the DISTRICT of any Bid shall not release the next lowest evaluated responsive Bid and this Headworks equipment vendor shall be bound by its Bid on such Work for the time period specified on the Bid Form.

## Cost of Bid

Costs incurred in the preparation, presentation, and submission of a Bid shall be borne entirely by the proposing headworks equipment vendor.

## Bid Evaluation Method

Headworks equipment vendors are urged to respond to each category using detailed performance data, contact information, spread sheets, diagrams, and other information such as historical endorsements, signed and sealed guarantees, and like documents to fully illustrate their capability. The evaluation will be based entirely on the submitted documentation.

Review is based upon the DISTRICT's assessment of the headworks equipment vendor's demonstrated knowledge and experience. In general, the headworks equipment vendor must demonstrate that it, and the individuals who will be involved, are qualified and capable of conducting and completing the Work.

## Evaluation Criteria

Bids will be evaluated based on, but not necessarily limited to, the following criteria:

- Process guarantee.
- Bid completeness and quality of submission.
- Delivery Schedule of Goods.
- Demonstration of headworks equipment vendor's previous success at delivering comparable goods for comparable conditions.

- Qualifications and experience of the headworks equipment vendor.
- Quality of Proposed equipment and conformance to the DISTRICT and Industry standards.
- Headworks equipment vendor support capability.
- Technical merit and performance data.
- Compliance with the prescribed requirements and conformance to RFB.
- Presence of any exclusions to scope or contract requirements.
- Maintenance requirements, performance data, and guarantees of major items of services, materials and equipment proposed for incorporation in the headworks equipment.
- Total cost and O&M costs. Engineer will also assess the level of the headworks equipment vendor's experience and expertise to integrate the headworks equipment WWTF site power and controls / SCADA system and the amount of field assembly required.

The following will also be evaluated:

- Specialist technical support available to satisfy these specifications.
  - The Headworks equipment vendor should submit a description of the proposed equipment and services to be provided, including the following information:
    - Overview of proposed equipment and services to be provided.
    - Equipment cut sheets and data; for each item of equipment, include as appropriate:
      - Type
      - Manufacturer/model numbers
      - Capacity
      - Pressure
      - Materials of construction
      - Power requirements
    - List of any equipment required for system operation that is not supplied by the headworks equipment vendor.

The Bid containing the lowest price of any Bid will not necessarily be awarded. The DISTRICT reserves without restriction, sole discretion in determining best value and whether or not any bid received provides the most appropriate life cycle value to the DISTRICT.

#### Written Process Guarantee

The headworks equipment vendor shall provide a written Process Guarantee indicating that the provided headworks equipment will function under the prescribed automation and meet the required performance criteria described in this RFP.

Provide a written equipment warranty for the scope of supply in accordance with the RFB requirements and clearly explain how warranty will be implemented and if there are any exceptions.

Performance Guarantee: The headworks equipment vendor shall guarantee the performance of the headworks equipment to meet specified design parameters at the minimum and maximum design influent flow rates for a period of eighteen (18) months from the date of project acceptance by the DISTRICT.

## Capacity to Meet Project Schedule

The headworks equipment vendor shall provide a schedule to manufacture the headworks equipment, provide technical support services to the DISTRICT's WWTF design engineers, perform factory testing, deliver, start-up, test, adjust and train the DISTRICT's operators on the proposed headworks equipment at the Machado WWTF site. Evaluation will be based on the impact on overall project schedule. Time is of the essence.

## Headworks Equipment Vendor Qualifications

At a minimum the HEADWORKS EQUIPMENT VENDOR shall meet the following requirements:

The headworks equipment vendor shall have successfully installed (in the United States) headworks equipment of the type specified herein at a minimum of three (3) separate domestic wastewater treatment plants, each in operation for at least two (2) years. These facilities shall be of comparable size, complexity and scope of the DISTRICT's Machado WWTF new headworks facility with similar influent loading, using comparable equipment to that specified herein for the Machado WWTF. Information regarding the reference projects shall be submitted with the Bid in the form provided (**Appendix B**). If the headworks equipment vendor wishes to provide alternate references, the Exception Form must be completed. Track Record with Similar Equipment Installations

- Provide complete details of all similar contracts within the last ten (10) years for headworks equipment installations with similar plant/wastewater conditions in California. Evaluation will be based on the quantity and relevance of the provided projects.
- Evaluation of these criteria will be graded based on demonstrating the ability to provide troubleshooting or repair services by experienced and qualified staff on site and remotely from the time of initial notification.
- The DISTRICT requires a treatment system supported by prompt availability of competent service technicians and quick delivery of replacement parts in order to minimize downtime associated with unscheduled maintenance events.
- Provide a written description of headworks equipment vendor's ability to promptly provide qualified service personnel and replacement parts when necessary.
- Describe where qualified service personnel are normally employed and from where replacement parts would be distributed to the DISTRICT.

## Commissioning and Training Personnel and Experience

- Evaluation of these criteria will be graded based on the ability to identify and commit to having experienced and qualified staff on site for site preparation, construction, installation, commissioning, testing, and DISTRICT operator training of treatment equipment and plant controls.
- Provide a general approach to undertaking Commissioning and Training for the proposed system. Provide a list of individuals by discipline who will be on-site to undertake commissioning and operator training.

## Supplied Equipment

### Quality of Proposed Equipment

- Provide a complete list of proposed equipment to be included in the headworks equipment vendor's scope of supply as described in this document.
- Headworks equipment vendor should indicate the make and model number for equipment supplied. Indicate the membrane manufacturer and element model.
- Headworks equipment vendor's providing higher quality equipment and details will receive more points than those providing lower quality equipment and less detail.
- Details of Each Element of Equipment and Controls

Evaluation of these criteria will be graded based on the detailed information provided for each element of equipment and the description of how the control system for the headworks equipment will be integrated into the DISTRICT's WWTF SCADA system.

### Conformance to Specified Products and Equipment Lists

The headworks equipment vendor shall provide details on where their equipment and products will deviate from any specified items, manufacturer, or model from those specified in this document.

Those headworks equipment vendors demonstrating higher consistency in products and conformance to DISTRICT's Standards will receive greater consideration.

### Bid Exceptions

Headworks equipment vendors with greater compliance with the DISTRICT Standard Terms and Conditions will receive more points than those with less compliance, or those that note "exceptions" or propose alternative Terms and Conditions (Complete Exceptions Form in **Appendix A**).

The DISTRICT reserves the right to reject bids with excessive "exceptions" that the DISTRICT deems irreconcilable.

### Warranty

Equipment Warranty and Warranty Services: All mechanical and process equipment and other equipment in the headworks equipment vendor's scope of work shall be 100% covered by the headworks equipment vendor, for a period of two (2) years of acceptance by the DISTRICT. During the warranty period, the headworks equipment vendor shall repair or replace any defective mechanical and process equipment within 14 calendar days of receiving notice of a failure.

Warranty services shall be provided during the performance guarantee period. The services shall include:

- Visiting the Machado WWTF quarterly (minimum of one (1) day on-site during each visit). Visits shall include observation of operations, assessment of headworks equipment, and supplemental training of personnel.
- 24/7 continuous telephone and PLC code support.

### Project Milestones for Headworks Equipment Vendor's Warranty and Guarantee:

- Acceptance testing shall not commence until after prerequisite training is completed and notice of completion is issued. In accordance with Section 017319, Installation of Equipment, a "Notice

of Completed Installation” shall be issued by the DISTRICT once the headworks equipment has been properly installed by the General Contractor with technical support to be provided by the headworks equipment vendor, allowing commissioning to commence. Upon successful completion of startup and commissioning, the “Notice of Substantial Completion” will be issued by DISTRICT.

- Headworks equipment Warranty period and warranty period for all other equipment shall commence on the date of “Notice of Substantial Completion”.

#### Acceptance of Bid and Contract

The headworks equipment vendor with the highest overall ranking, based on the evaluation criteria and methodology outlined in this RFB, will be selected to negotiate a contract with the DISTRICT. In the event that these negotiations fail, the DISTRICT may enter into negotiations with the next ranked supplier.

The evaluation of the bids and subsequent award is final and no appeal on the result of the evaluation and award will be considered.

During the evaluation, the headworks equipment vendor shall respond promptly to questions from the DISTRICT.

The DISTRICT reserves the right to reject any or all bids, to waive irregularities, to reject bids considered as non-responsive to this Request for Bid documents and generally to act in the DISTRICT’s best interests.

If the DISTRICT decides to accept a Bid, the DISTRICT will signify its conditional acceptance by preparing and forwarding to the Headworks equipment vendor an acceptance letter notifying the successful headworks equipment vendor to proceed with Shop Drawings and other submittals as defined in the Bid.

Upon completion of the Shop Drawings and other required submittals, the remainder of the work including equipment fabrication, will proceed. The successful Headworks equipment vendor will be required to submit any documentation requested by the DISTRICT within 21 calendar days.

If the Headworks equipment vendor fails to comply with the above noted conditions, the DISTRICT may, in its sole discretion, cancel its conditional acceptance. In such an event, the DISTRICT shall be entitled to retain the bid security accompanying the Bid as liquidated damages, and the DISTRICT may accept the Bid of the next lowest evaluated responsive Headworks equipment vendor.

The headworks equipment vendor shall provide a written statement with the bid confirming they will provide a 24-month warranty period to the DISTRICT from the date of “Notice of Substantial Completion”.

The headworks equipment vendor shall provide a written statement with the bid confirming that they will provide a 24-month Maintenance Bond, equal to 20% of total Headworks equipment price, from the date of “Notice of Substantial Completion” to the DISTRICT.

## Insurance, Performance Security and Safety Requirements

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### Insurance

Except as otherwise expressly provided in the Bid Documents, the Headworks equipment vendor shall, at the headworks equipment vendor's expense, maintain the following insurance:

- General Liability Insurance: This policy shall provide for coverage against claims for personal injury, bodily injury or death, or damage to third party property as a result of the on-site technical support during installation, on-site field testing, commissioning and training for the headworks equipment.
- This policy shall be project specific (i.e. provide single project coverage) and provide coverage for the headworks equipment vendor and all subcontractors involved in the Work, as well as the DISTRICT, the DISTRICT Engineer, and their officers, employees and agents.
- This policy shall be endorsed as necessary to cover products; completed operations; contingent employer's liability, and all other work to be provided by the headworks equipment vendor, as applicable. The coverage shall also include cross liability, builders' risk, premises and operations, blanket contractual, extended bodily injury, broad form property damage and owned and non-owned commercial automobile liability. Each of said policies of insurance shall provide coverage in the following minimum amounts: for personal injury \$1,000,000 each person, \$2,000,000 aggregate limit; property damage \$1,000,000 on account of any one occurrence, \$2,000,000 aggregate limit; except that insurance required to be maintained by Subcontractors above shall provide coverage in the following minimum amounts; for personal injury \$500,000 each person, \$1,000,000 aggregate limit; property damages \$500,000 on account of any one occurrence, \$1,000,000 aggregate limit.
- Cargo Insurance: Maintain All Risk Cargo insurance on all shipments. This policy shall cover the invoice cost of the cargo including all freight costs plus 10% for additional expenses. All shipments are FOB jobsite, freight prepaid.
- Manufacturers Insurance: Maintain Manufacturers Insurance on all equipment at the manufacturer's facilities. This policy shall cover the invoice amount of the equipment.
- Insurers: The policies required shall be underwritten by insurers acceptable to the DISTRICT.
- Period of Insurance: Unless otherwise stipulated, the policies shall be effective from the date of commencement of Work and shall be maintained until the day of issue of the Engineer's certification of Final Completion, and in the case of completed operations coverage and claims-made based policies for a period of at least twenty-four (24) months following the issuance of the Notice of Substantial Completion.

- Notification: The insurance policies must include a provision that thirty (30) days prior written notice shall be given by the insurer to the DISTRICT in the event of any material change in, cancellation of, expiration of coverage or amendment restricting coverage specific to the Contract.
- Indemnification: The insurance coverage required shall in no way limit the Headworks equipment vendor's obligations under the Contract. Any additional coverage the headworks equipment vendor may deem necessary to fulfill the headworks equipment vendor's obligations under the Contract shall be at the headworks equipment vendor's own discretion and expense.
- Evidence of Insurance: The headworks equipment vendor shall provide the DISTRICT with Certificates of Insurance or certified copies of the General Liability policies as evidence of the required insurance.

### Workers Compensation

Worker's Compensation written in accordance with the laws of the State of California providing coverage for any and all employees of headworks equipment vendor and sub-contractors in the minimum statutorily required coverage amounts.

### Performance Security

**Obligation to Provide System Based Performance Security**: Within fourteen (14) calendar days upon signing of the "Headworks Equipment Contract", the headworks equipment vendor shall, at their own expense, provide and maintain headworks equipment-based performance security, in the form Maintenance Bond until the expiration of the two-year period warranty period from the Notice of Substantial Completion date in which the system has operated in accordance with the Contract Specifications.

- The Maintenance Bond is to be in the amount of **twenty percent (20%)** of the total Headworks equipment supply price. The maintenance bond payable to the DISTRICT, guarantees performance of the Works to all terms and conditions of this contract including warranty provisions described in the RFB and as reiterated and agreed to upon contract award. The maintenance bond will specifically cover the performance of the contract according to its terms and conditions. The maintenance bond shall be issued by a surety company licensed in the State of California to provide guarantee bonds. Warranty shall start on the date of issuance to the Headworks equipment vendor of the Substantial Completion.



**APPENDIX A**  
**PROPOSAL FORMS**

## APPENDIX A Bid Forms

The headworks equipment vendor proposing this work shall fill in the dollar amounts and other necessary information in the Headworks Equipment Bid Schedule (Schedule) below. In case of any inconsistencies in the Bid Price(s) between words and figures, the Bid Price(s) in words shall prevail.

- A. The dollar amount for the bid items provided in this Schedule shall constitute the Bid Price and be the amount to be paid by the DISTRICT to the Headworks Screening and Grit Removal Equipment Vendor to provide the design and shop drawings, preform factory testing, deliver, provide technical support to the DISTRICT and General Contractor during installation, start-up, test, adjust and train the DISTRICT's operators on the proposed headworks equipment at the Machado WWTF site. The headworks equipment vendor shall also include in the Bid Price, the costs associated with meeting the requirements the two (2) year period described in **Section 2.18.7 Warranty**.

Item No.	Description		
1	<b>Influent Multi-rake Mechanically Cleaned Bar Screen System, Including Control Panels, Spare Parts, and Appurtenances. (Delivered FOB San Miguel, CA)</b>  \$ (In Words)	LS	\$
2	<b>Washer-Compactor System, Including Control Panels, Spare parts, and Appurtenances. (Delivered FOB San Miguel, CA)</b>  \$ (In Words)	LS	\$
3	<b>Vortex-Type Grit Handling System, Including Control Panels, Spare Parts, and Appurtenances. (Delivered FOB San Miguel, CA)</b>  \$ (In Words)	LS	\$
	<b>Headworks Remote Control Panels, Spare Parts, and Appurtenances. (Delivered FOB San Miguel, CA)</b>  \$ (In Words)	LS	\$
4	<b>Factory Acceptance Testing, Supervision / Technical Support during installation, Testing &amp; Adjustment, Training, Commissioning, Warranty, and Follow-Up Support Services.</b>  \$ (In Words)	LS	\$

5	<b>Design Assistance (Shop drawings and design support, as specified in the Request for Bids)</b>	LS	\$
	\$		
	(In Words)		
<sup>1</sup> All applicable taxes including Sales Tax at the applicable rate for San Luis Obispo County shall also be included in the lump sum price.			

**Receipt of Addenda**

It is the Headworks Equipment vendor’s responsibility to confirm receipt of all addenda prior to submitting a proposal. The Headworks screening and grit removal equipment vendor hereby confirms receipt of all Request for Proposal Addenda. The Headworks Equipment vendor shall also include all addenda, duly signed, as an attachment to their proposal.

\_\_\_\_\_

Signature

\_\_\_\_\_

Company Name

\_\_\_\_\_

Printed Name

\_\_\_\_\_

Date

\_\_\_\_\_

Title

Addenda Received (# and date of each addendum): \_\_\_\_\_

\_\_\_\_\_

**Headworks Equipment Vendor Identification**

1. Legal name of Vendor: \_\_\_\_\_

2. Street Address: \_\_\_\_\_

3. Mailing Address: \_\_\_\_\_

4. Business Telephone: \_\_\_\_\_

5. Facsimile Telephone: \_\_\_\_\_

6. Type of Business:

\_\_\_\_ Sole Proprietor

\_\_\_\_ Partnership

\_\_\_\_ Corporation

Other \_\_\_\_\_

If corporation, indicate State where incorporated:

\_\_\_\_\_

7. Business License number issued by the Issuing Authority where the Supplier's principal place of business is located.

Number: \_\_\_\_\_

Issuing Authority: \_\_\_\_\_

8. Federal Tax Identification Number: \_\_\_\_\_

9. Supplier's Representative: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**HEADWORKS EQUIPMENT VENDOR References**

The Headworks Screening and Grit Removal Equipment vendor shall have successfully installed (in the United States) Headworks Screening and Grit Removal Equipment Systems of the type specified herein at a minimum of three (3) separate wastewater treatment plants in operation for at least two (2) years. These systems shall have a minimum average annual flow capacity of 0.30 MGD. The form below should be completed for each reference project (use additional sheets as necessary).

<b>HEADWORKS VENDOR REFERENCES</b>	
<b>Name, address, and telephone number of Owner</b>	
<b>Name of project</b>	
<b>Location of project</b>	
<b>Brief description of the work involved (including equipment provided, design flow, etc.)</b>	
<b>Contract amount</b>	
<b>Date of completion of commissioning and start- up</b>	
<b>Design hydraulic capacity (peak and annual average in mgd)</b>	
<b>Identify system by model or type</b>	
<b>Information regarding plant performance in terms of meeting design objectives during first year of operation</b>	



**Non-Collusion Affidavit**

State of California \_\_\_\_\_ )

\_\_\_\_\_ ) ss.

County of \_\_\_\_\_ )

\_\_\_\_\_ (name), being first duly sworn, deposes and says that he or she  
is \_\_\_\_\_ (title), of \_\_\_\_\_ (name of firm) the party.

making the foregoing proposal that the proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the Headworks Equipment vendor has not directly or indirectly solicited any other HEADWORKS SCREENING AND GRIT REMOVAL EQUIPMENT VENDOR to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any headworks screening and grit removal equipment vendor or anyone else to put in a sham proposal, or that anyone shall refrain from proposing; that the Headworks screening and grit removal equipment vendor has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the proposal price or the Headworks screening and grit removal equipment vendor or any other Headworks screening and grit removal equipment vendor, or to fix any overhead, profit, or cost element of the proposal price, or of that of any other Headworks equipment vendor, or to secure any advantage against the public body awarding the Contract of anyone interested in the proposed Contract; that all statements contained in the proposal are true; and, further, that the Headworks screening and grit removal equipment vendor has not, directly or indirectly, submitted his or her proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, proposal depository, or to any member or agent thereof to effectuate a collusive or sham proposal.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Supplier License Number

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

**Exception Form**

Should your company take exception to ANY of the terms and conditions, or other contents provided in the Request for Proposal, submit the following form with your proposal. If no exception(s) are taken, enter "NONE" for the first item. Make additional copies of this form if necessary.

Please note that these exceptions do not mitigate the responsibility of the HEADWORKS SCREENING AND GRIT REMOVAL EQUIPMENT VENDOR, in any way, whatsoever, on performance, equipment quality, maintainability, and operability. Add additional pages as needed.

Page Number: \_\_\_\_\_ Section Title: \_\_\_\_\_

Paragraph Number: \_\_\_\_\_ Exception Taken: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Page Number: \_\_\_\_\_ Section Title: \_\_\_\_\_

Paragraph Number: \_\_\_\_\_ Exception Taken: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Page Number: \_\_\_\_\_ Section Title: \_\_\_\_\_

Paragraph Number: \_\_\_\_\_ Exception Taken: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Surety Bid Bond**

WHEREAS:

We, \_\_\_\_\_  
(Full name or legal title of Headworks Equipment Vendor), hereinafter called Principal, and

\_\_\_\_\_  
(Name of bonding company)

as Surety, hereinafter called Surety, a corporation authorized to transact business as a Surety in the State of California, are held and firmly bound unto the **SAN MIGUEL COMMUNITY SERVICES DISTRICT**, hereinafter called "DISTRICT", in the penal sum of DOLLARS (\$\_\_\_\_\_), lawful money of the United States of America, not less than TEN PERCENT (10%) of the Proposal Price (**Total of All Items Bid**), for the payment of which sum well and truly to be made, the said Principal and the said Surety bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS:

The Principal has submitted a proposal to said DISTRICT to perform all work required to supply the DISTRICT's WWTF Headworks Screening and Grit Removal Equipment as described in the RFB.

NOW THEREFORE:

The condition of this obligation is such that if the DISTRICT does not select the Principal, then this obligation shall be null and void, otherwise to remain in full force and effect.

In the event suit is brought upon this bond by said DISTRICT and judgment is recovered, said Surety shall pay all costs incurred by said DISTRICT in such suit, including a reasonable attorney's fee to be fixed by the court.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

Principal

Surety

By: \_\_\_\_\_

By: \_\_\_\_\_

Its \_\_\_\_\_

Attorney-in-Fact

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

**APPENDIX B**  
**PREVIOUS INSTALLATION FORMS**

## APPENDIX B Previous Installation Forms

---

The HEADWORKS EQUIPMENT VENDOR shall have successfully installed (in the United States) Headworks Screening and Grit Removal Equipment Systems of the type specified herein at a minimum of three (3) separate domestic wastewater treatment plants, each in operation for at least two (2) years. These systems shall each have a minimum 300,000 gallons per day (MGD) average annual flow capacity and comparable to those that are proposed for the Machado WWTF. Information regarding the reference projects shall be submitted with the Proposal in the forms provided below. If the HEADWORKS SCREENING AND GRIT REMOVAL EQUIPMENT VENDOR wishes to provide alternate references, the Exception Form must be completed.

### **PREVIOUS INSTALLATION 1**

**Location:**

---

**Date of Becoming Fully Operational:**

---

**Rated Capacity (GPD):**

---

**Proponent's Contract Value (\$):**

---

**Proponent's Scope of Work:**

(e.g., supply only, supply and install, design-build, design-build-operate, and a list of equipment supplied)

---

**Owner:**

---

**Owner Contact Person:**

---

(Name)

---

(Position/Title)

---

(Telephone No.) (E-mail)

**PREVIOUS INSTALLATION 2**

**Location:**

\_\_\_\_\_

**Date of Becoming Fully Operational:**

\_\_\_\_\_

**Rated Capacity (GPD):**

\_\_\_\_\_

**Proponent's Contract Value (\$):**

\_\_\_\_\_

**Proponent's Scope of Work:**

(e.g., supply only, supply and install, design-build, design-build-operate, and a list of equipment supplied)

\_\_\_\_\_

**Owner:**

\_\_\_\_\_

**Owner Contact Person:**

\_\_\_\_\_

(Name)

\_\_\_\_\_

(Position/Title)

\_\_\_\_\_

(Telephone No.)

(E-mail)

**PREVIOUS INSTALLATION 3**

**Location:**

\_\_\_\_\_

**Date of Becoming Fully Operational:**

\_\_\_\_\_

**Rated Capacity (GPD):**

\_\_\_\_\_

**Proponent's Contract Value (\$):**

\_\_\_\_\_

**Proponent's Scope of Work:**

(e.g., supply only, supply and install, design-build, design-build-operate, and a list of equipment supplied)

\_\_\_\_\_

**Owner:**

\_\_\_\_\_

**Owner Contact Person:**

\_\_\_\_\_

(Name)

\_\_\_\_\_

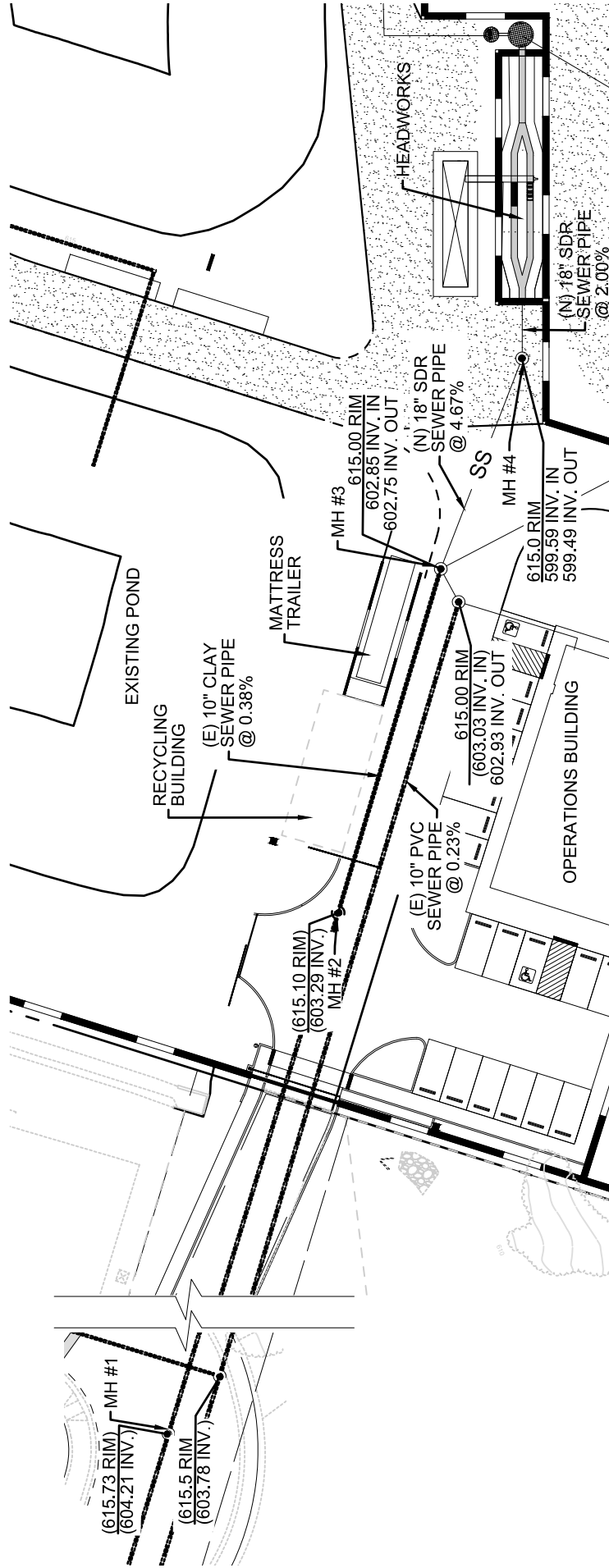
(Position/Title)

\_\_\_\_\_

(Telephone No.)

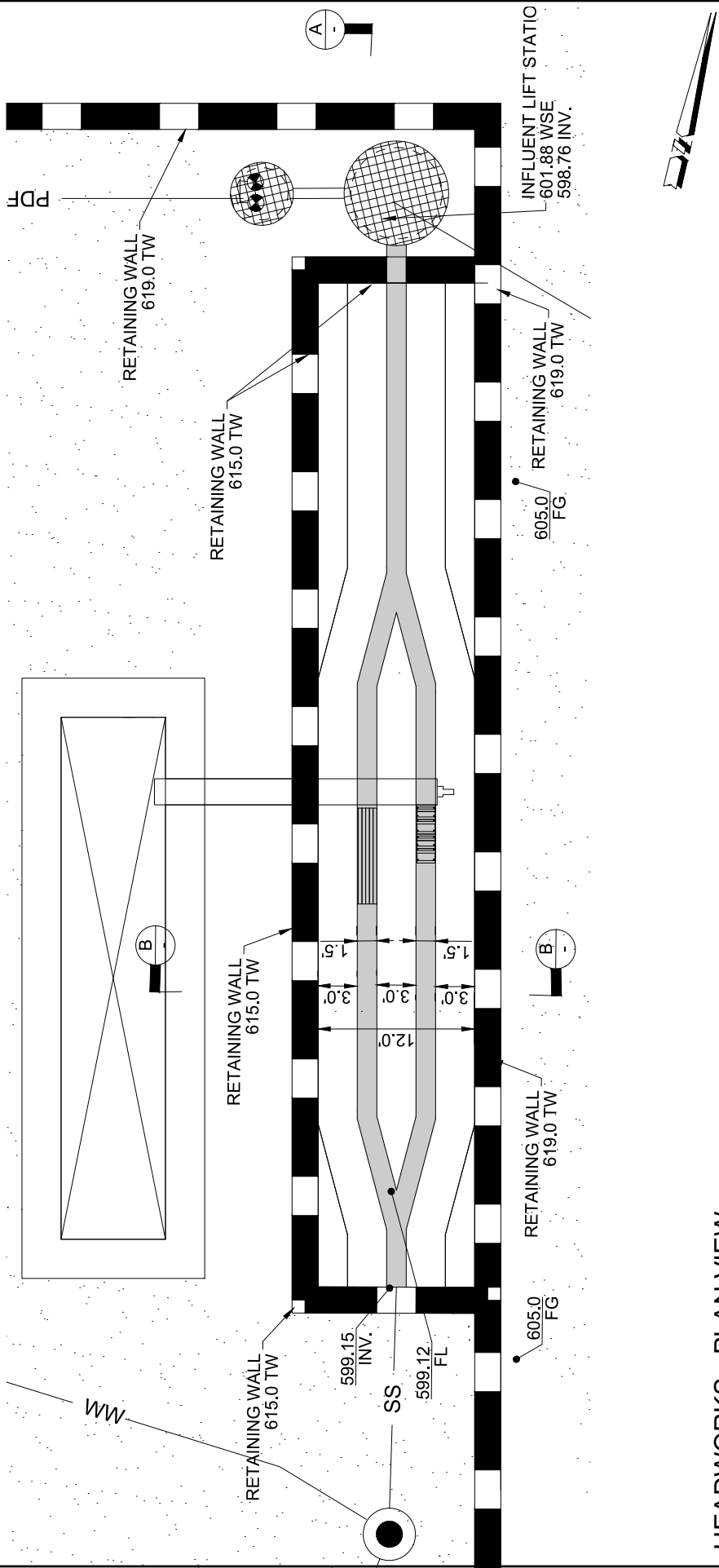
(E-mail)

**APPENDIX C**  
**PRELIMINARY WWTF YARD PIPING PLAN**  
**And**  
**HEADWORKS SCHEMATIC DRAWINGS**  
**(NOT FOR CONSTRUCTION)**



HEADWORKS - OVERALL SITE PLAN

SCALE: 1" = 50'

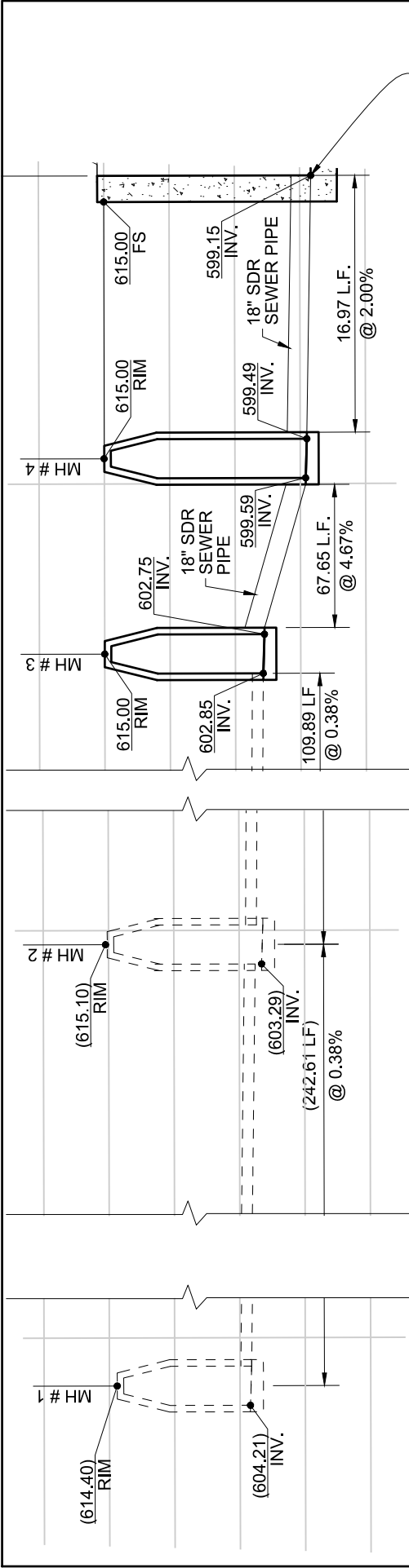


HEADWORKS - PLAN VIEW

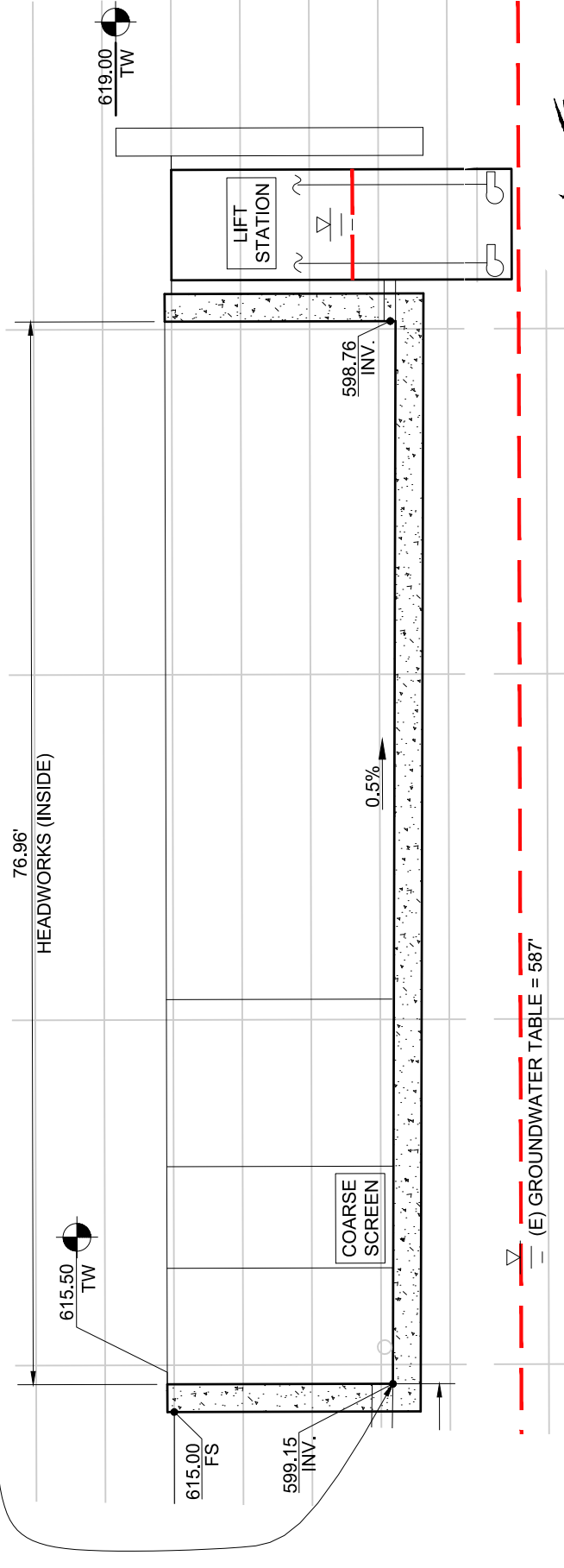
SCALE: NTS





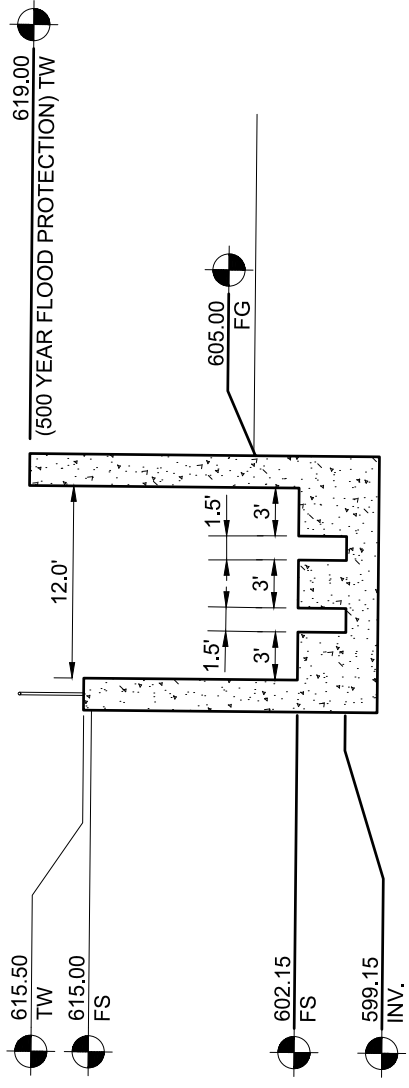


IDENTICAL POINTS



HEADWORKS - SECTION A-A

SCALE: NTS



**HEADWORKS - SECTION B-B**

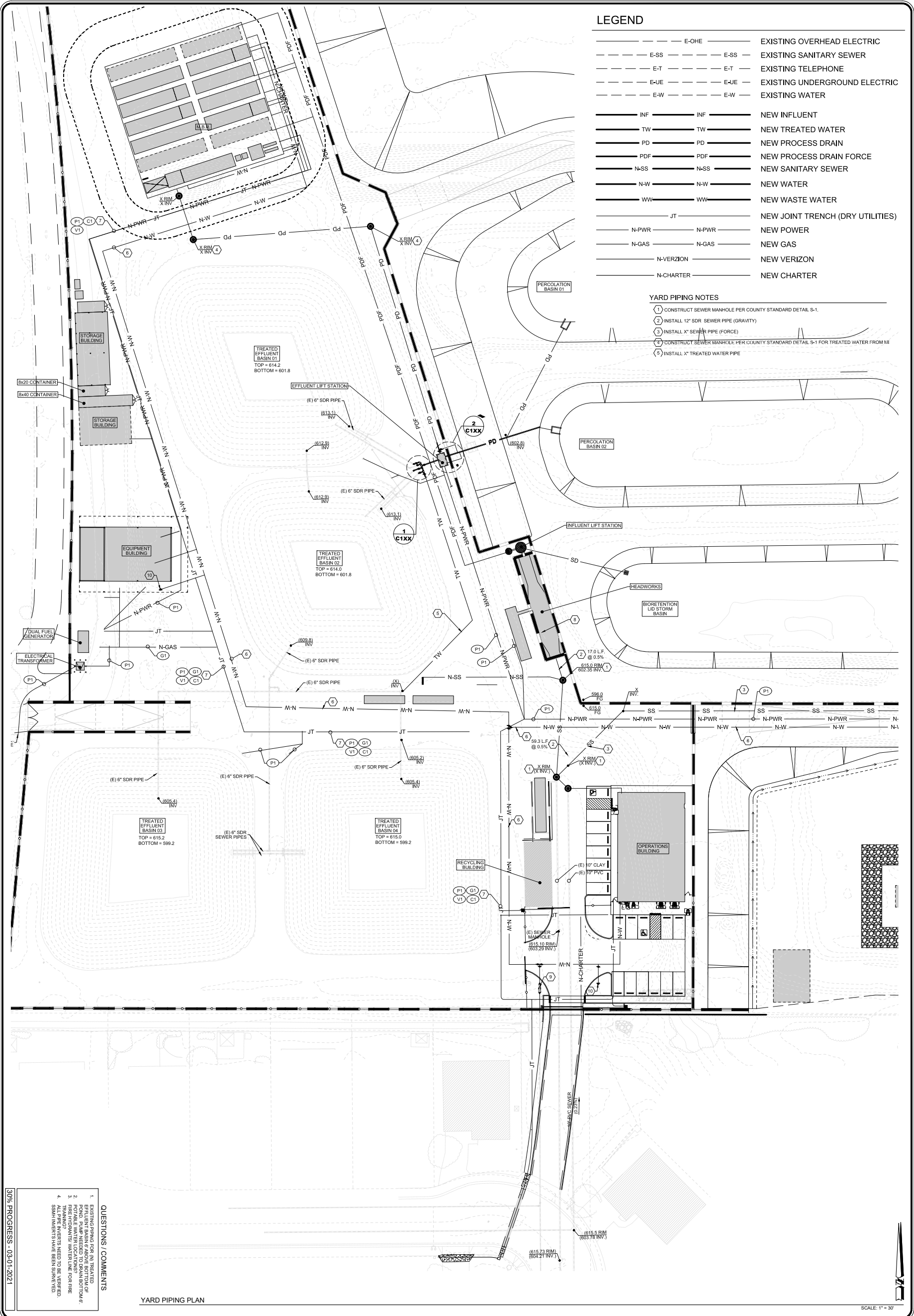
SCALE: NTS

**LEGEND**

---	E-OHE	---	EXISTING OVERHEAD ELECTRIC
---	E-SS	---	EXISTING SANITARY SEWER
---	E-T	---	EXISTING TELEPHONE
---	E-UE	---	EXISTING UNDERGROUND ELECTRIC
---	E-W	---	EXISTING WATER
---	INF	---	NEW INFLUENT
---	TW	---	NEW TREATED WATER
---	PD	---	NEW PROCESS DRAIN
---	PDF	---	NEW PROCESS DRAIN FORCE
---	N-SS	---	NEW SANITARY SEWER
---	N-W	---	NEW WATER
---	WW	---	NEW WASTE WATER
---	JT	---	NEW JOINT TRENCH (DRY UTILITIES)
---	N-PWR	---	NEW POWER
---	N-GAS	---	NEW GAS
---	N-VERIZON	---	NEW VERIZON
---	N-CHARTER	---	NEW CHARTER

**YARD PIPING NOTES**

- 1) CONSTRUCT SEWER MANHOLE PER COUNTY STANDARD DETAIL S-1.
- 2) INSTALL 12" SDR SEWER PIPE (GRAVITY).
- 3) INSTALL 8" SEWER PIPE (FORCE).
- 4) CONSTRUCT SEWER MANHOLE PER COUNTY STANDARD DETAIL S-1 FOR TREATED WATER FROM M.
- 5) INSTALL 8" TREATED WATER PIPE.



YARD PIPING PLAN

SCALE: 1" = 30'

**QUESTIONS / COMMENTS**

1. SUMPING PIPING FROM IN TREATED EFFLUENT BASIN 01 TO TREATED EFFLUENT BASIN 02. PUMP NEEDED TO DRAIN BOTTOM OF POND. FRIENDLY ADVISE WAREHOUSE FOR FIRE.
2. FRIENDLY ADVISE WAREHOUSE FOR FIRE.
3. TRAINING? FRIENDLY ADVISE WAREHOUSE FOR FIRE.
4. SMNH INVERTS HAVE BEEN SURVEYED.

30% PROGRESS - 03-01-2021

<p>Sheet Title: <b>YARD PIPING PLAN</b></p> <p>Project: <b>WASTE WATER TREATMENT FACILITY PLANS</b></p> <p>Developer: <b>SAN MIGUEL COMMUNITY SERVICES DISTRICT</b></p> <p>Address: <b>1150 MISSION STREET, SAN MIGUEL, CA 93451</b></p>	<p>Project Number: <b>2019.10.002b</b></p> <p>Project Location: <b>X SAN MIGUEL, CA</b></p>	<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Number	Date	Description										<p><b>MONSOON</b></p> <p>P.O. BOX 151 SAN LUIS OBISPO, CA 93406 (805) 476-6168</p> <p>WWW.MONSOONCONSULTANTS.COM</p>
Number	Date	Description													



Scale: 01-C-106

Drawn by: JMC

Checked by: BTR

Date: 03-18-2021

Sheet: PER PLAN

**APPENDIX D**  
**HEAD SCREENING & GRIT REMOVAL EQUIPMENT**  
**TECHNICAL SPECIFICATIONS**

SECTION 01300

SUBMITTALS

PART 1 -- GENERAL

1.01 THE REQUIREMENT

A. NOT USED

B. NOT USED

C. Working Drawings

1. Shop Drawings

- a. Supplier shall submit for review by the Engineer Shop Drawings for all fabricated work and for all manufactured items required to be furnished by the Procurement Documents.
- b. Structural and all other layout Drawings prepared specifically for the Project shall have a plan resolution of not less than 1/4-inch = 1 foot.
- c. Where manufacturer's publications in the form of catalogs, brochures, illustrations or other data sheets are submitted in lieu of prepared Shop Drawings, such submittals shall specifically indicate the item for which approval is requested. Identification of items shall be made in ink, and submittals showing only general information are not acceptable.

2. Layout and Installation Drawings

- a. Supplier shall prepare and submit for review by the Engineer layout and installation drawings for all equipment supplied, under the Procurement Documents.

3. Supplier Responsibilities

- a. All submittals shall be bound, dated, properly labeled and consecutively numbered. Information on the label shall indicate Specification Section, Drawing number, subcontractor's, manufacturer's or supplier's name and the name or type of item the submittal covers. Each part of a submittal shall be marked and tabulated.
- b. Shop Drawings shall be submitted as a single complete package for any operating system and shall include all items of equipment and any mechanical units involved or necessary for the functioning of such system. Where applicable, the submittal shall include elementary wiring diagrams showing circuit functioning and necessary interconnection wiring diagrams for construction.
- c. If the submittals contain any departures from the Procurement Documents, specific mention thereof shall be made in the Supplier's letter of transmittal. Otherwise, the review of such submittals shall not constitute approval of the departure.
- d. Where errors, deviations, and/or omissions are discovered at a later date in any of the submittals, the Engineer's prior review of the submittals does not relieve the Supplier of the responsibility for correcting all errors, deviations, and/or omissions.

4. Procedure for Review

- a. Submittals shall be transmitted in sufficient time to allow the Engineer at least fifteen (15)

working days for review and processing.

- b. Supplier shall transmit one (1) electronic copy and two (2) hard copies of all technical data or drawing to be reviewed.
- c. Submittal shall be accompanied by a letter of transmittal containing date, project title, Supplier's name, number and titles of submittals, a list of relevant specification sections, notification of departures from any Procurement Document requirement, and any other pertinent data to facilitate review.
- d. Submittals will be annotated by the Engineer in one of the following ways: "Furnish as Submitted" (FAS) - no exceptions are taken  
"Furnish as Corrected" (FAC) - minor corrections are noted and shall be made.  
"Furnish as Corrected – Confirm" (FACC) - some corrections are noted and a partial resubmittal or additional information are required as specifically requested.  
"Revise and Resubmit" (R&R) - major corrections are noted and a full resubmittal is required.  
"For Information Only – Not Reviewed" (FIO) – submittal was received and was distributed for record purposes without review.
- e. If a submittal is satisfactory to the Engineer in full or in part, the Engineer will annotate the submittal "Furnish as Submitted", "Furnish as Corrected", or "Furnish as Corrected – Confirm", retain two (2) copies and return remaining copies to the Supplier. In the case of "Furnish as Corrected – Confirm" a partial resubmittal or additional information are required as specifically requested.
- f. If a full resubmittal is required, the Engineer will annotate the submittal "Revise and Resubmit" and transmit one (1) electronic copy to the Supplier for appropriate action.
- g. Supplier shall continue to resubmit submittals in part if they are returned "Furnish as Corrected – Confirm" or in full if they are returned "Revise and Resubmit" as required by the Engineer until submittals are acceptable to the Engineer. It is understood by the Supplier that Owner may charge the Supplier the Engineer's charges for review in the event a submittal is not approved (either "Furnish as Submitted" or "Furnish as Corrected") by the third submittal for a system or piece of equipment. These charges shall be for all costs associated with engineering review, meetings with the Supplier, commencing with the fourth submittal of a system or type of equipment submitted for a particular Specification Section.

#### 5. Engineer's Review

- a. Engineer's review of the Supplier's submittals shall in no way relieve the Supplier of any of his responsibilities under the Procurement Documents. An acceptance of a submittal shall be interpreted to mean that the Engineer has no specific objections to the submitted material, subject to conformance with the Procurement Drawings and Specifications.
- b. Engineer's review will be confined to general arrangement and compliance with the Procurement Drawings and Specifications only, and will not be for the purpose of checking dimensions, weights, clearances, fittings, tolerances, interferences, coordination of trades, etc.

#### 6. NOT USED

### D. Operation and Maintenance Manuals

1. Two (2) preliminary copies of Operation and Maintenance Manuals, prepared specifically for this Project, shall be furnished for each item of equipment furnished under the Procurement Documents. The preliminary manuals shall be provided to the Engineer not less than 60 days prior to the start-up of the respective equipment.
2. The preliminary manuals shall be reviewed by the Engineer prior to the Supplier submitting final copies for distribution to the DISTRICT. Following review of the preliminary copies of the Operation and Maintenance Manuals, one (1) copy will be returned to the Supplier with required revisions noted, or the acceptance of the Engineer noted.
3. Manuals shall contain complete information in connection with assembly, operation, lubrication, adjustment, wiring diagrams and schematics, maintenance, and repair, including detailed parts lists with drawings or photographs identifying the parts.
4. O&M manuals shall include instructions, equipment ratings, technical bulletins, and any other printed matter such as wiring diagrams and schematics, prints or drawings, containing full information required for the proper operation, maintenance, and repair of the equipment. Included in this submission shall be a spare parts diagram, complete spare parts list, bill of materials, OEM part numbers and manufacturer's catalog information of all equipment components.
5. Written operation and maintenance instructions shall be required for all equipment items supplied for this project. The amount of detail shall be commensurate with the complexity of the equipment item.
6. Information not applicable to the specific piece of equipment installed on this project shall be struck from the submission.
7. Information provided shall include a source of replacement parts and names of service representatives, including address and telephone number.
8. Pictorial cuts of equipment are required for operator reference in servicing.
9. When written instructions include Shop Drawings and other information previously reviewed by the Engineer, only those editions thereof which were approved by the Engineer, and which accurately depict the equipment installed, shall be incorporated in the instructions.
10. Manuals furnished shall be assembled and bound in separate volumes, by major equipment items or trades, and properly indexed to facilitate locating any required information. In addition, manuals should be labeled in the front cover with the project, name, equipment description, and manufacturer contact information.
11. Engineer and the DISTRICT shall be the sole judge of the acceptability and completeness of the manuals and may reject any submittal for insufficient information included, incorrect references and/or the manner in which the material is assembled.
12. Following the Engineer's review of the preliminary manuals, the Supplier shall submit two (2) paper copies and one (1) electronic copy of the final Operation and Maintenance Manuals to the Engineer. The manuals shall reflect the required revisions noted during the Engineer's review of the preliminary documents. Failure of the final manuals to reflect the required revisions noted by the Engineer during a review of the Preliminary documents will result in the manuals being returned to the Supplier. Acceptable final Operation and Maintenance Manuals shall be provided not less than two weeks prior to equipment start-up.

E. Certified Shop Test Reports

1. Each piece of equipment for which pressure, head, capacity, rating, efficiency, performance, function or special requirements are specified or implied shall be tested in the shop of the manufacturer in a manner which shall conclusively prove that its characteristics comply fully with the requirements of the Procurement Documents and applicable test codes and standards. Supplier shall keep the Engineer advised of the scheduling of shop tests.

2. The Supplier shall transmit two (2) paper copies and one (1) electronic copy of the actual test data, the interpreted results and a complete description of the testing facilities and testing setup, all accompanied by a certificate of authenticity sworn to by a responsible official of the Supplier and notarized. These reports shall be forwarded to the Engineer for review.
3. In the event any equipment fails to meet the test requirements, the manufacturer shall make all necessary changes, adjustments or replacements and the tests shall be repeated, at no additional cost to the DISTRICT or Engineer, until the equipment test requirements are acceptable to the Engineer.
4. No equipment shall be shipped to the Project until the Engineer notifies the Supplier, in writing, that the shop test reports are acceptable.

F. NOT USED

G. NOT USED

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -



## SECTION 01350

### SEISMIC ANCHORAGE AND BRACING

#### PART 1 -- GENERAL

##### 1.01 THE REQUIREMENT

- A. Furnish all materials required to design and provide seismic restraint and bracing for the mechanical screen and washer-compactor system in which the components are to be installed in accordance with the Procurement Documents and the seismic restraint requirements of Chapter 13 in ASCE 7.
- B. Furnish manufacturer certifications showing seismic compliance in accordance with Chapter 13 of ASCE 7 for equipment designated as an essential component or to remain operational following a seismic event.

##### 1.02 RELATED WORK SPECIFIED ELSEWHERE

- 1. Mechanically Cleaned Bar Screen for Wastewater (Section 462116)
  - 2. Washer Compactor and Conveyor (Section 462173)
  - 3. Vortex-Type Grit Removal System (Section 462323)
  - 4. Headworks Remote Control Panel (Section 17550)
- A. Further requirements for seismic anchorage and bracing may be included in other Sections of the Specifications. See section for the specific item in question.

##### 1.03 DEFINITIONS

- A. Nonstructural components: All architectural, mechanical, electrical or plumbing elements or systems and their supports or attachments provided under this contract which are permanently attached to the floors, roof, walls, columns and beams of newly constructed buildings, building additions, existing buildings or non-building structures.
  - 1. NOT USED
  - 2. Mechanical nonstructural components include, but are not limited to, fans, water and wastewater treatment process equipment, instrumentation cabinets, piping and ductwork.
  - 3. Electrical nonstructural components include, but are not limited to, conduit systems, cable tray systems, boxes, transformers, panelboards, switchboards, switchgear, busway, individual motor controllers, motor control centers, variable frequency drives, automatic transfer switches, and lighting systems.
- B. Seismic Restraint: Attachments and supports, including braces, frames, legs, hangers, saddles, and struts which anchor and brace nonstructural components to minimize their displacement during an earthquake and transmit loads between non-structural components and their attachments to the structure or building.
- C. Attachment: Elements including anchor bolts, welded connections, and mechanical fasteners which secure non-structural components or supports to the structure.
- D. Non-building Structures: All self-supporting structures which are supported by an

independent foundation or by other structures which include, but are not limited to, storage tanks, silos, exhaust stacks, storage racks, and towers.

- E. Delegated Design: Design of a structure or structural element(s) which has been deferred by the contract documents to be performed during the project construction stage, by a registered design professional retained by the contractor and with the design submitted as a shop drawing to the Engineer.

#### 1.04 REFERENCE SPECIFICATIONS, CODES AND STANDARDS

- A. Without limiting the generality of the Specifications, all work herein shall conform to or exceed the applicable requirements of the following documents. The building code shall be the version in effect at the time of Bid within the jurisdiction where the Work is located. All other referenced specifications, codes, and standards refer to the version as referenced by the building code. If no version is referenced by the building code, then the most current issue available at the time of Bid shall be used.
  - 1. California Building Code
  - 2. ASCE/SEI 7 Minimum Design Loads for Buildings and Other Structures
  - 3. FEMA 412 Installing Seismic Restraints for Mechanical Equipment
  - 4. FEMA 413 Installing Seismic Restraints for Electrical Equipment
  - 5. ACI 318 Building Code Requirements for Structural Concrete and Commentary
  - 6. ACI 355.2 Qualifications of Post-Installed Mechanical Anchors in Concrete
  - 7. ACI 355.4 Qualifications of Post-Installed Adhesive Anchors in Concrete

#### 1.05 SUBMITTALS

- A. Submit the following in accordance with Section 01300, Submittals.
  - 1. Seismic anchorage and bracing shop drawings for all architectural, mechanical, electrical, and plumbing nonstructural components, elements and systems not meeting any of the exemptions as discussed in Chapter 13 of ASCE 7 and not having a design for seismic anchorage and bracing provided within the contract documents. Submittals shall include the following:
    - a. Component manufacturer's cut sheets and fabrication details for equipment bases and foundations, including dimensions, structural member sizes, support point locations and equipment operational loads. Equipment anchorage details shall clearly indicate anchor size, pattern, embedment and edge distance requirements to satisfy operational and seismic forces. Details shall also indicate grout, bearing pads, isolators, etc. required for complete installation.
    - b. Design calculations, signed and sealed by a Professional Engineer registered in the State of California confirming the proposed seismic restraints and attachment will provide sufficient strength and stiffness to resist the design earthquake and limit damage to nonstructural components and the entire support is sufficient to resist the combined gravity and seismic loads. Separate calculation submittals for vertical and lateral load support systems shall not be

allowed.

- C. Detailed Shop Drawings, signed and sealed by a Professional Engineer registered in the State of California, showing specific details of the support design including material, installation, attachments, connection hardware, etc., and the restraint layout and location of all hangers and supports (resisting both gravity and seismic loads), including restraint orientation and direction of force(s) to be resisted. Within each submittal, the Supplier shall include a **cumulative** set of hanger and support location drawings (one cumulative 'living drawing for each building structure) containing all proposed mechanical, electrical and plumbing support locations submitted to date showing the locations of all support attachments to the primary structure. Load magnitudes shall be indicated at attachments to the structure where the sum of the reaction loads on a single member exceeds 1000 pounds vertically or exceeds 500 pounds horizontally. Unless requested by the Engineer, load magnitudes need not be submitted for load values less than these stated values. Separate shop drawing submittals for vertical and lateral load support systems shall not be allowed.

#### 1.06 DESIGN REQUIREMENTS

- A. Seismic restraints systems for nonstructural components shall be subject to the California Building Code in conjunction with the seismic provisions of ASCE 7 Chapter 13.
- B. Seismic restraints systems for non-building structures shall be subject to the California Building Code in conjunction with the seismic provisions of ASCE 7 Chapter 15.
- C. Nonstructural components shall be assigned to the same Seismic Design Category as the structure they occupy or to which they are attached. Criteria shall include site-specific spectral response coefficients, site class, seismic design category, and risk category. The site-specific spectral response coefficients shall be obtained from the United States Geological Survey seismic design tool (web-based).
- D. Component Importance Factor  $I_p$  shall be 1.5 for all essential nonstructural components in accordance with Chapter 13 of ASCE 7. All other nonstructural components shall utilize  $I_p = 1.0$  unless noted otherwise.
- E. Components shall be restrained and braced for earthquake forces both in the vertical and each orthogonal direction. Seismic restraint systems shall limit deflections of components per ASCE 7 and the displacements shall not impede component functionally and containment.
- F. Anchorage shall be designed in accordance with ASCE 7. Mechanical fasteners used to secure nonstructural architectural, mechanical, electrical and plumbing components shall meet the requirements of Specification Section 05050. All mechanical fasteners used to anchor essential components and other elements so designated in Specification Section 05050 shall be considered Structural Anchors.
- G. NOT USED
- H. NOT USED
- I. Design of support system for components with multiple attachments shall take into account the stiffness and ductility of the supporting members. Equipment designed as free-standing shall only be attached at its base. Use of non-free standing equipment

requiring both vertical and lateral attachment is contingent upon loads applied to the structure and requires approval by the Engineer.

- J. The seismic restraint design shall be based on actual equipment data (dimensions, weight, center of gravity, etc.) obtained from the specifications or the approved equipment manufacturer. The equipment manufacturer shall verify the attachment points on the equipment can safely withstand the combination of seismic, self-weight and other loads imposed.
- K. Attachments of nonstructural component supports and seismic restraints causing the building structure slabs, beams, walls, columns, etc. to be overstressed shall not be permitted.
- L. Where the weight of a nonstructural component is greater than or equal to 25 percent of the effective seismic weight (as defined by ASCE 7) of the structure it is attached to, the component shall be classified as a non-building structure and its support designed in accordance with ASCE 7 Chapter 15.
- M. No reaction loads (either vertical or lateral) from nonstructural component supports and seismic restraints shall be allowed on any element where design has been delegated unless the additional loads on the element have been coordinated with the delegated designer and the submittal is accompanied by a sealed letter from the delegated designer indicating the element has been designed to support the reaction loads.
- N. Reaction loads from nonstructural component supports and seismic restraints shall be transferred directly to the primary structural members, with no components supported from secondary members unless otherwise approved.
- O. No holes shall be drilled into any structural steel for attachment of component supports without prior approval of the Engineer.

## PART 2 -- PRODUCTS

### 2.01 MATERIALS

- A. Seismic restraints and braces shall be constructed of appropriate materials and connecting hardware to provide a continuous load path between the components and supporting structure of sufficient strength and stiffness to resist the calculated design seismic forces and displacements.
- B. Component restraint, bracing and connection materials shall be compatible with and in general match the component and component gravity support materials. Contact between dissimilar metals shall be prevented.
- C. Post-installed concrete anchors used for seismic restraint and bracing anchorage shall be considered structural anchors per Section 05050 and shall be prequalified for use in seismic applications.
- D. Powder actuated fasteners in steel or concrete shall not be used for sustained tension loads in Seismic Design Categories D, E or F unless approved for seismic loading or specifically exempted by ASCE 7.
- E. Friction clips shall not be used in Seismic Design Categories D, E or F for supporting sustained tension loads in combination with resisting seismic forces. C-type and large flange clamps may be used for hanger attachments provided restraining straps meeting NFPA 13 requirements are utilized and loosening of threaded connections is prevented by lock nuts, burred threads, etc.

PART 3 -- EXECUTION

NOT USED

- END OF SECTION -

## SECTION 05050

### METAL FASTENING

#### PART 1 -- GENERAL

##### 1.01 THE REQUIREMENT

- A. Furnish all materials required to provide all metal fasteners not otherwise specified, in accordance with these Specifications and Equipment Manufacturers recommendations.

##### 1.02 NOT USED

##### 1.03 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

- A. Without limiting the generality of the other requirements of the specifications, all work herein shall conform to the applicable requirements of the following documents. All referenced specifications, codes, and standards refer to the most current issue available at the time of Bid.
  1. California Building Code
  2. AC 308 Acceptance Criteria for Post-Installed Adhesive Anchors in Concrete Elements
  3. ACI 318 Building Code Requirements for Structural Concrete
  4. ACI 355.2 Qualifications of Post-Installed Mechanical Anchors in Concrete
  5. ACI 355.4 Qualifications of Post-Installed Adhesive Anchors in Concrete
  6. AISC 348 The 2009 RCSC Specification for Structural Joints
  7. Aluminum Association Specifications for Aluminum Structures
  8. ASTM A572/A572M-94C Standard Specification for High Strength Low-Alloy Columbium-Vanadium Structural Steel Grade 50
  9. ASTM A36 Standard Specification for Carbon Structural Steel
  10. ASTM A325 Standard Specification for High-Strength Bolts for Structural Steel Joints
  11. ASTM A490 Standard Specification for Quenched and Tempered Alloy Steel Bolts for Structural Steel Joints
  12. ASTM A563 Standard Specifications for Carbon and Alloy Steel Nuts
  13. ASTM F436 Standard Specification for Hardened Steel Washers
  14. ASTM F467 Standard Specification for Nonferrous Nuts for General Use
  15. ASTM F593 Standard Specification for Stainless Steel Bolts; Hex Cap Screws, and Studs
  16. ASTM F594 Standard Specification for Stainless Steel Nuts

17. ASTM F1554 Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength

#### 1.04 SUBMITTALS

- A. Submit the following in accordance with Specification Section 01300, Submittals.
  - 1. Shop Drawings providing the fastener's manufacturer and type and certification of the fastener's material and capacity.
  - 2. Anchor design calculations sealed by a Professional Engineer currently registered in the State of California. Only required if design not shown on Contract Drawings.
  - 3. Manufacturer's installation instructions.

#### 1.05 QUALITY ASSURANCE

- A. Fasteners not manufactured in the United States shall be tested and certification provided with respect to specified quality and strength standards. Certifications of origin shall be submitted for all U.S. fasteners supplied on the project.

### PART 2 -- PRODUCTS

#### 2.01 ANCHOR RODS (ANCHOR BOLTS)

- A. Anchor rods shall conform to ASTM F1554 Grade 36 except where stainless steel or other approved anchor rods are shown on the Drawings. Anchor rods shall have hexagonal heads and shall be supplied with hexagonal nuts meeting the requirements of ASTM A563 Grade A.
- B. Where anchor rods are used to anchor galvanized steel or are otherwise specified to be galvanized, anchor rods and nuts shall be hot-dip galvanized in accordance with ASTM F1554.

#### 2.02 HIGH STRENGTH BOLTS

- A. High strength bolts and associated nuts and washers shall be in accordance with ASTM A325 or ASTM A490. Bolts, nuts and washers shall meet the requirements of AISC 348 "The 2009 RCSC Specification for Structural Joints".
- B. Where high strength bolts are used to connect galvanized steel or are otherwise specified to be galvanized, bolts, nuts, and washers shall be hot-dip galvanized in accordance with ASTM A325.

#### 2.03 STAINLESS STEEL BOLTS

- A. Stainless steel bolts shall conform to ASTM F-593. All underwater fasteners, fasteners in confined areas containing fluid, and fasteners in corrosive environments shall be Type 316 stainless steel unless noted otherwise. Fasteners for aluminum and stainless-steel members not subject to the above conditions shall be Type 304 stainless steel unless otherwise noted.
- B. Stainless steel bolts shall have hexagonal heads with a raised letter or symbol on the bolts indicating the manufacturer, and shall be supplied with hexagonal nuts meeting the requirements of ASTM F594. Nuts shall be of the same alloy as the bolts.

## 2.04 CONCRETE ANCHORS

### 1. General

1. Where concrete anchors are called for on the Drawings, one of the types listed below shall be used; except, where one of the types listed below is specifically called for on the Drawings, only that type shall be used. The determination of anchors equivalent to those listed below shall be on the basis of test data performed by an approved independent testing laboratory. There are two types used:
  - a. Expansion anchors shall be mechanical anchors of the wedge, sleeve, drop-in or undercut type.
  - b. Adhesive anchors shall consist of threaded rods or bolts anchored with an adhesive system into hardened concrete. Adhesive anchors shall be two-part injection type using the manufacturer's static mixing nozzle and shall be supplied as an entire system.
2. Expansion anchors shall not be used to hang items from above or in any other situations where direct tension forces are induced in anchor.
3. Unless otherwise noted, all concrete anchors which are submerged or are used in hanging items or have direct tension induced upon them, or which are subject to vibration from equipment such as pumps and generators, shall be adhesive anchors.
4. Adhesive anchors shall conform to the requirements of ACI 355.4 or alternately to AC 308. Expansion or mechanical anchors shall conform to the requirements of ACI 355.2 or alternately to AC 193. Anchors in Seismic Design Categories C through F shall conform to the California Building Code and ACI 318 Appendix D requirements as applicable, including seismic test requirements.
5. Engineer's approval is required for use of concrete anchors in locations other than those shown on the Drawings.

### 2. Concrete Anchor Design:

An anchor design consists of specifying anchor size, quantity, spacing, edge distance and embedment to resist all applicable loads. Where an anchor design is indicated on the Drawings, it shall be considered an engineered design and anchors shall be installed to the prescribed size, spacing, embedment depth and edge distance. If all parts of an anchor design are provided on the Drawings except embedment depth, the anchors will be considered an engineered design and the Supplier shall provide the embedment depth as indicated in Paragraph B.3 unless otherwise directed by the Engineer. Where an anchor design is not indicated by the Engineer on the Drawings, the Supplier shall provide the anchor design per the requirements listed below.

1. **Structural Anchors:** All concrete anchors shall be considered structural anchors if they transmit load between structural elements; transmit load between non- structural components that make up a portion of the structure and structural elements; or transmit load between life-safety related attachments and structural elements. Examples of structural concrete anchors include but are not limited to column anchor bolts, anchors supporting non-structural walls, sprinkler piping support anchors, anchors supporting heavy, suspended piping or equipment, anchors supporting barrier rails, etc. For structural anchors, the Supplier shall submit an engineered design with signed and sealed calculations performed by an Engineer currently registered in the State of California. Structural anchors shall be of a type recommended



by the anchor manufacturer for use in cracked concrete and shall be designed by the Supplier in accordance with ACI 318 Appendix D.

3. Embedment Depth:

1. Minimum anchor embedment shall be as determined by the Supplier's engineered design. Although all manufacturers listed are permitted, the embedment depth indicated on the Drawings is based on "HIT-HY 200 by Hilti Inc.". If the Supplier submits one of the other concrete adhesive anchors listed, the Engineer shall evaluate the required embedment and the Supplier shall provide the required embedment depth stipulated by the Engineer specific to the approved dowel adhesive.
2. Where the embedment depth is not shown on the Drawings, concrete anchors shall be embedded no less than the manufacturer's standard embedment (expansion or mechanical anchors) or to provide a minimum allowable bond strength equal to the allowable yield capacity of the rod according to the manufacturer (adhesive anchors).
3. The embedment depth shall be determined using the actual concrete compressive strength, a cracked concrete state, maximum long-term temperature of 110 degrees F, and maximum short term temperature of 140 degrees F. In no case shall the embedment depth be less than the minimum or more than the maximum stated in the manufacturer's literature.

4. Structural Anchors:

a. Mechanical Anchors:

- i. Wedge Anchors: Wedge anchors shall be "Kwik Bolt TZ" by Hilti, Inc., "TruBolt +" by ITW Redhead, "Strong-Bolt 2" by Simpson Strong-Tie Co. or "Powerstud SD-1" or "Powerstud SD-2" by Powers Fasteners.
- ii. Screw Anchors: Screw anchors shall be "Kwik HUS-EZ" and "KWIK HUS-EZ-I" by Hilti, Inc., "Titen HD" by Simpson Strong-Tie Co., or "Wedge-Bolt +" by Powers Fasteners. Bits specifically provided by manufacturer of chosen system shall be used for installation of anchors.
- iii. Sleeve Anchors: Sleeve anchors shall be "HSL-3 Heavy Duty Sleeve Anchor" by Hilti, Inc. or "Power-Bolt +" by Powers Fasteners.
- iv. Undercut Anchors: Undercut anchors shall be "HDA Undercut Anchor" by Hilti, Inc., "Torq-Cut Undercut Anchor" by Simpson Strong-Tie Co., "Atomic + Undercut Anchor" by Powers Fasteners

b. Adhesive Anchors:

- i. Adhesive anchors shall be "Epcon C6+ Adhesive Anchoring System" by ITW Redhead, "HIT HY-200 Adhesive Anchoring System" by Hilti, Inc., "AT-XP" or "SET-XP Epoxy Adhesive Anchors" by Simpson Strong-Tie Co., or "PE-1000+ Epoxy Adhesive Anchor System" by Powers Fasteners.
- ii. Structural adhesive anchor systems shall be IBC compliant and capable of resisting short term wind and seismic loads (Seismic Design Categories A through F) as well as long term and short term sustained static loads in both cracked and uncracked concrete in all Seismic Design Categories. Structural adhesive anchor systems shall comply with the latest revision of ICC-ES Acceptance Criteria AC308, and shall have a valid ICC-ES report in accordance with the applicable building code. **No "or equal" products will be considered unless prequalified and approved by the District Engineer and District.**

5. Concrete Anchor Rod Materials:

- c. Concrete anchors used to anchor structural steel shall be a threaded steel rod per manufacturer's recommendations for proposed adhesive system, but shall not have a yield strength (fy) less than 58 ksi nor an ultimate strength (fu) less than 72.5 ksi, unless noted otherwise. Where steel to be anchored is galvanized, concrete anchors shall also be galvanized unless otherwise indicated on the Drawings.
- d. Concrete anchors used to anchor aluminum, FRP, or stainless steel shall be Type 304 stainless steel unless noted otherwise. All underwater concrete anchors shall be Type 316 stainless steel.
- e. Nuts, washers, and other hardware shall be of a material to match the anchors.

2.05 ANTI-SEIZE LUBRICANT

- A. Anti-seize lubricant shall be C5-A Anti-Seize by Loctite Corporation, Molykote P-37 Anti-Seize Paste by Dow Corning, 3M Anti-Seize by 3M, or equal.

PART 3 -- EXECUTION

NOT USED

- END OF SECTION -

SECTION 17550

HEADWORKS REMOTE CONTROL PANEL

PART 1 GENERAL

1.01 INTENT OF SPECIFICATION

- A.** The following provisions describe the comprehensive control and monitoring control panel and system to be provided for the Water Treatment Facility headworks. All equipment is to be completely factory assembled, wired and tested prior to shipment.

1.02 SYSTEM COORDINATION

- A.** The equipment provided shall be a completely integrated automatic control and monitoring system consisting of the required automation and alarm monitoring equipment in a factory wired and tested assembly.
- B.** All equipment and materials shall be subject to the Engineer's review and shall not be purchased or manufactured until the review is complete.
- C.** The Supplier shall include in the bid allowance for factory-trained service personnel to supervise and install, program and adjust all the equipment and controller until the system has been completely accepted.
- D.** The equipment shall be provided with the identical components used in the MBR MCC, including PLC and SCADA software package for a seamless integration of the headworks into the overall controls package. The equipment supplied shall be Factory Acceptance Tested with the MBR MCC.

1.03 ASSURANCE

- A.** The Supplier shall maintain quality in design and workmanship as well as materials used in manufacture of equipment supplied. All equipment supplied under this Contract shall be of new manufacture. Supplier shall be responsible for detailed engineering, manufacture, programming, test, start-up and demonstration of all equipment and software programs to provide a complete operating system.
- B.** All of the equipment listed herein shall be integrated by a single supplier.

1.04 DESIGN SUBMITTALS

The following design submittals are to be provided by Vendor upon award of contract. All submittals shall be approved by the Engineer, prior to installation of such equipment.

- A.** Shop Drawing Submittal: Shop Drawings shall be submitted for approval for all equipment herein specified. All project drawings shall be generated using AutoCAD, latest revision. The Shop Drawing Submittal shall include a Document List (index). An Order Specification shall be included which shall describe in detail all equipment provided. Each panel shall be provided with a job-specific wiring diagram, parts list (with all parts keyed to the wiring diagrams), enclosure door layout and enclosure dimension drawing. Standard sales brochures shall only be provided to supplement technical data. Interconnection details shall be shown on the wiring diagrams for all field-mounted instrumentation. A Description of Operation shall be provided detailing the operation of the complete system, including the various control loops, systems power equipment and alarm handling.
- B.** As Built Drawings and Instruction Manuals: As-built Drawings and Instruction Manuals must be provided in a timely manner. These manuals shall include corrected Shop Drawings. In addition, a detailed Programming and Operations Manual for the Microprocessor-based Controller and Control and Operator Interface

monitoring software package shall be included. The manual shall include all "as programmed" set points for level alarms, pump control and other parameters.

- C. O&M manuals in final form shall be available within Thirty (30) working days following the completion of system startup.

#### 1.05 DELIVERY, STORAGE AND HANDLING

- A. Any panels not mounted to the manufacturers skid shall be mounted on wood skids four inches high prior to shipping. Adequate crating will be provided for the panel being shipped where a transfer from one truck to another is planned.
- B. Instruments shall be blocked and tied to prevent damage during shipment. Front-panel mounting instruments shall be removed and pre-packed in their original containers for shipment.
- C. Accessories, drawings, instruction bulletins, etc., shall be packed and shipped with the panel.

### PART 2 PRODUCTS

#### 2.01 EQUIPMENT REQUIREMENTS

- A. Serialized UL Label Requirement (508A): The control panel(s) shall be constructed in compliance with Underwriter's Laboratories Inc. category 508A standards Enclosed Industrial Control listing and following-up. The control panel(s) shall bear the Underwriter's Laboratories serialized label for "Enclosed Industrial Control Panel".
- B. All panel doors shall have a lock installed in the door handle, or a hasp and staple for padlocking. Locks for all panels provided under this Contract shall be keyed alike.
- C. All components shall be mounted in a manner that shall permit servicing, adjustment, testing and removal without disconnecting, moving or removing any other component. Components mounted on the inside of panels shall be mounted on removable plates and not directly to the enclosure. Mounting shall be rigid and stable unless shock mounting is required otherwise by the manufacturer to protect equipment from vibration. Components mounting shall be oriented in accordance with the internal components shall be identified with suitable plastic or metal engraved tags attached with drive pins adjacent to (not on) each component identifying the component in accordance with the drawing, specifications, and SYSTEM INTEGRATOR's data.
- D. All exterior panel mounted equipment shall be installed with suitable gaskets, faceplates, etc. required to maintain the NEMA rating of the panel.
- E. Mounting Elevations
  1. ISA Recommended Practice RP60.3 shall be used as a guide in layout and arrangement of panels and panel mounted components. Dimensions shall account for all housekeeping pads that panels will sit on once they are installed.
  2. Centerline of indicators and controllers shall be located no lower than 36 inches or higher than 70 inches above the floor on a panel face.
  3. Centerline of lights, selector switches and pushbuttons shall be located no lower than 32 inches or higher than 70 inches above the floor on a panel face.
  4. Installation of panel components shall conform with component manufacturers' guidelines
- F. Wiring

1. All control wiring shall be contained within plastic/PVC wiring duct with covers. Where dimensional constraints prevent the use of wiring duct, wires shall be trained to panel components in groupings. The wire groupings shall be bundled and tied not less than every 3" with nylon self-locking cable ties as manufactured by Panduit or equal.
2. Every other cable tie shall be fastened to the enclosure door or inner device panel with a cable tie mounting plate with pressure tape. Where wiring crosses hinged areas, such as when trained from the inner device panel to the enclosure door, spiral wrap shall be used.

**G. Nameplates**

1. The major components and sub-assemblies shall be identified as to function.

**2.02 PANEL MATERIALS AND CONSTRUCTION**

**A. STRUCTURE AND ENCLOSURE**

1. Panels shall be of 304 continuous welded-stainless steel construction. Provide stainless steel angle stiffeners as required on the back of the panel face to prevent panel deflection under instrument loading or operation. Internally the panels shall be supplied with a structural steel framework for instrument support purposes and panel bracing. The internal framework shall permit panel lifting without racking or distortion.
2. Each panel shall be provided with full height, fully gasketed access doors where shown. Doors shall be provided with a three-point stainless steel latch and heavy duty stainless steel locking handle.
3. The panels, including component parts, shall be constructed and assembled in a thoroughly workmanlike manner and shall be free from sharp edges and welding flaws. Wiring shall be free from kinks and sharp bends and shall be routed for easy access to other components for maintenance and inspection purposes.
4. The panel shall be suitable for top or bottom conduit. All conduit and cable penetrations shall be provided with ground bushings, hubs, gasketed locknuts, or other accessories as required to maintain the NEMA rating of the panel and electrical rating of the conduit system.
5. All panels in indoor, dry, non-corrosive environments shall be NEMA 12 unless otherwise noted. All panels in outdoor, wet or chemically corrosive environments shall be NEMA 4X unless otherwise noted.

**B. WALL OR UNISTRUT MOUNTED PANELS**

1. All wall mounted panels shall meet the NEMA classification specified herein. The panels shall be constructed of not less than USS 14 gauge stainless steel, suitably braced internally for structural rigidity and strength. All NEMA 4X rated wall mounted panels shall be constructed of 304 Stainless steel.

**2.03 ENVIRONMENTAL CONTROL**

- A.** All panels shall be provided with louvers, Sun shields, heat sinks, forced air ventilation, or air conditioning units as required to prevent temperature buildup inside of panel. The internal temperature of all panels shall be regulated to a range of 0°C to 40°C under all conditions. Under no circumstances shall the panel cooling or heating equipment compromise the NEMA rating of the panel.
- B.** Forced air ventilation fans, where used, shall provide a positive internal pressure within the panel and shall be provided with washable or replaceable filters. Fan motors shall operate on 120-volt, 60-Hz power.

- C. For panels with internal heat that cannot be adequately dissipated with natural convection and heat sinks, or forced air ventilation, an air conditioner shall be provided.
- D. All enclosures shall be provided with a thermostatically controlled strip heater to reduce condensation and maintain the minimum internal panel temperature.

## 2.04 CONTROL PANEL - INTERNAL CONSTRUCTION

### A. INTERNAL ELECTRICAL WIRING

1. All interconnecting wiring shall be stranded, type MTW, and shall have 600 volt insulation and be rated for not less than 90 degrees Celsius. Wiring for systems operating at voltages in excess of 120 V AC shall be segregated from other panel wiring either in a separate section of a multi-section panel or behind a removable Plexiglas or similar dielectric barrier. Panel layout shall be developed such that technicians shall have complete access to 120 V AC and lower voltage wiring systems without direct exposure to higher voltages.
2. Power distribution wiring on the line side of fuses or breakers shall be 12 AWG minimum. Control wiring on the secondary side of fuses shall be 18 AWG minimum. Electronic analog circuits shall utilize 18 AWG shielded, twisted pair, cable insulated for not less than 600 volts.
3. Power and low voltage DC wiring systems shall be routed in separate wireways. Crossing of different system wires shall be at right angles. Different system wires routed parallel to each other shall be separated by at least 6-inches. Different wiring systems shall terminate on separate terminal blocks. Wiring troughs shall not be filled to more than 60 percent visible fill.
4. All wiring shall terminate onto a single tier master terminal board, where each terminal is uniquely and sequentially numbered. Direct interlock wiring between equipment will not be allowed. Multi-level terminal blocks or strips are not acceptable. The master terminal board shall have a minimum of 25 percent spares. Terminal blocks shall be arranged in vertical rows and separated into groups (power, AC control, DC signal). Terminal blocks shall be the compression type, fused, unfused, or switched as needed.
  - a. Discrete inputs and outputs (DI and DO) shall have two terminals per point with adjacent terminal assignments. All active and spare points shall be wired to terminal blocks.
  - b. Analog inputs/outputs (AI and AO) shall have three terminals per shielded pair connection with adjacent terminal assignments for each point. The third terminal is for shielded ground connection for cable pairs. Ground the shielded signal cable at the PLC cabinet. All active and spare points shall be wired to terminal blocks.
  - c. Wire and tube markers shall be the sleeve type with heat impressed letters and numbers.
  - d. Only one side of a terminal block row shall be used for internal wiring. The field wiring side of the terminal shall not be within 6-inches of the side panel or adjacent terminal or within 8-inches of the bottom of free standing panels, or within 3-inches of stanchion mounted panels.
  - e. Fiberoptic, coaxial, or twisted pair communication cables (e.g. Ethernet, Foundation Fieldbus, DeviceNet, etc.) shall be provided with strain relief and connected directly to panel
5. All wiring to hand switches, etc., which are live circuits independent of the panel's normal circuit breaker protection shall be clearly identified as such.
6. Provide surge protectors on all incoming power supply lines at each panel.
7. Wiring trough for supporting internal wiring shall be plastic type with snap on covers. The side walls shall be open top type to permit wire changing without disconnecting. Trough shall be supported to the subpanel by stainless steel screws. Trough shall not be bonded to the panel with glue or adhesives.

8. Each panel shall be provided with an isolated copper grounding bus for all signal and shield ground connections. Shield grounding shall be in accordance with the instrumentation manufacturer's recommendations.
9. All wiring shall be clearly tagged and color coded. All tag numbers and color coding shall correspond to the panel wiring diagrams and loop drawings prepared by the Vendor. All power wiring, control wiring, grounding and DC wiring shall utilize different color insulation for each wiring system used.
10. Each panel shall be provided with a separate copper power grounding bus (safety) in accordance with the requirements of the National Electrical Code.
11. Each panel shall have control, signal and communication line surge suppression.
12. All microprocessor-based electronic devices in the panel that are powered by 120V AC shall be powered by a UPS source. Panel auxiliary loads including fans, receptacle, heater, light, etc., shall have an alternate non-UPS power source.
13. Each panel shall be provided with circuit breakers to interrupt both UPS and normal incoming power. Provide a minimum of two (2) spare 20-amp breakers.

**B. PRINT STORAGE POCKETS**

1. Print storage pockets shall be provided on the inside of each panel. The storage pocket shall be sufficient to hold all of the prints required to service the equipment, and to accommodate 8.5 inch by 11 inch documents without folding. A license shall be issued for each machine loaded with process control software.

**2.05 SYSTEM SPECIFICATIONS**

**A. Scope**

The following describes the control system requirements. Provide complete and functional process control systems to meet the requirements specified herein.

1. The Vendor shall provide internet connectivity using an industrial quality firewall/router. The Owner will provide a DSL internet connection at the site. Assume the system will need to have flexibility to connect using either a static or dynamic IP address.
2. Successful connectivity and router installation shall be the sole responsibility of the Vendor. Control system shall include graphical representation of the entire process, user-defined control set points, and alarm condition notifications. Control program shall also provide tabular and graphical logging of important parameters necessary for record keeping, identical to the MBR MCC. These parameters shall include but are not limited to the following:
  - a. Alarm Module – include email and/or text messaging for notification of alarm conditions to selected individuals.
  - b. Report Module – provide operator with required information for inclusion in the self-monitoring reports.
  - c. Maintenance Module – track equipment runtime and generate maintenance-due reminders for all plant equipment in accordance with manufacturer's recommendations in their O&M Manuals.
    - 1) Maintenance interval/duration will be provided by the District for the specific equipment during the programming phase.
  - d. Remote monitoring and control – with internet connection, provide access to the headworks equipment for monitoring and remote control.

The following minimum list of equipment to be controlled/monitored shall be provided:

**Coarse Screen**

- a. Motors
  - i. Drive Motor
- b. Controls
  - i. Upstream LT (ultrasonic)
    - 1. 4-20mA
  - ii. Downstream LT (ultrasonic)
    - 1. 4-20mA
- c. Monitoring
  - i. CTR for drive
  - ii. FTR for drive
  - iii. Levels for Upstream LT
  - iv. Levels for Downstream LT

**Washer/Compactor**

- a. Motors/loads
  - i. Compactor Auger Motor
  - ii. Compactor Washer Solenoid
    - a. 120V Asco style assumed
- b. Controls
  - i. None
- c. Monitoring
  - i. Compactor motor CTR
  - ii. Compactor motor FTR
  - iii. Washer solenoid CTR

**Grit Removal**

- a. Motors
  - i. Drive Motor for agitator
  - ii. Drive motor for auger
  - iii. Air Lift/Diffuser Blower
- b. Controls
  - i. Grit Auger LT
    - 1. 4-20mA
  - ii. Influent Flowmeter
    - 1. 4-20mA
- c. Monitoring
  - i. Drive Motor CTR
  - ii. Drive Motor FTR
  - iii. Auger Motor CTR
  - iv. Auger Motor FTR
  - v. Blower Motor CTR
  - vi. Blower Motor FTR

**Influent Lift Station**

- a. Motors
  - i. Lead Pump
  - ii. Lag Pump
  - iii. EQ Transfer Pump
- b. Controls
  - i. Level Transducer
    - 1. 4-20mA
  - ii. Redundant Floats



1. Low Level Cutout
2. On
3. Off
4. High Level

c. Monitoring

- i. Lead Pump Thermal
- ii. Lead Pump Seal Fail
- iii. Lag Pump Thermal
- iv. Lag Pump Seal Fail
- v. EQ Transfer Pump Thermal
- vi. EQ Transfer Pump Seal Fail

**Equalization Motors / Loads**

- i. EQ Blower
- ii. EQ return auto valve
  1. 120V open, fail close
  2. 120V close

b. Controls

- i. EQ LT
  1. 4-20mA
- ii. Redundant Floats
  1. Low Level
  2. High Level
- iii. Monitoring
  1. EQ Blower CTR
  2. EQ Blower FTR
  3. EQ Return Auto Valve Confirmed Open
  4. EQ Return Auto Valve Confirmed Closed
  5. EQ Blower discharge LT
  6. EQ Blower suction LT

**Effluent Pump Station**

a. Motors

- i. Lead Pump
- ii. Lag Pump
- iii. Reclaimed Water pressure pump

b. Controls

- i. Level Transducer
  1. 4-20mA
- ii. Redundant Floats
  1. Low Level Cutout
  2. On
  3. Off
  4. High Level

c. Monitoring

- i. Lead Pump Thermal
- ii. Lead Pump Seal Fail
- iii. Lag Pump Thermal
- iv. Lag Pump Seal Fail
- v. Reclaimed Water Thermal
- vi. Reclaimed Water Seal Fail
- vii. EQ Transfer Pump Thermal
- viii. EQ Transfer Pump Seal Fail

**Pond Aeration**

- i. Motors/Loads

1. Aeration Blower #1
  2. Aeration Blower #2
- ii. Controls
    1. None
  - iii. Monitoring
    1. Aeration Blower #1 Suction LT
    2. Aeration Blower #1 Discharge LT
    3. Aeration Blower #2 Suction LT
    4. Aeration Blower #2 Discharge LT
3. Over-Temperature Detection
    - a. The control panel shall be furnished with relay logic necessary to provide proper detection of motor over-temperature for each pump (lift station pumps and blowers should be monitored at a minimum).
    - b. The control panel shall contain logic necessary to monitor motor over-temperature detection. The detection of over-temperature shall cutout the affected pump until manually reset via front panel mounted push button operator.
  4. Selector Switch
    - a. The control panel shall have three position selector switches mounted on the inner door for Manual-Off-Auto (VFD) operation of each motor. In the Manual position the VFD shall operate via manual speed potentiometer mounted on inner door. In the off mode the VFD shall not be allowed to operate. In the auto mode, the VFD shall operate in response to control signals from the microprocessor based controller.
    - b. Selector Switch(s) shall be full size 1 1/8" diameter NEMA 4 Heavy Duty type with modular contact block assemblies. Contact Blocks shall be stacking snap on type and allow interruption or connection of up to 8 isolated circuits. Contact blocks shall be rated NEMA A600, 600 Volt, 10A continuous duty, 7200VA make, 720VA break AC. Gold plated contacts shall be used for low power DC circuit applications. Contacts shall have compression type screw terminals.
  5. Pump Run Verification
    - a. A positive pump running (flow) condition shall be sensed by a VFD pump motor starter auxiliary contact.
  6. Push Button
    - a. The control panel shall include pushbutton operators for over-temperature reset.
    - b. Push Button(s) shall be full size 1 1/8" diameter NEMW 4 Heavy Duty type with modular contact block assemblies. Contact Blocks shall be stacking snap on type and allow interruption or connection of up to 8 isolated circuits. Contact blocks shall be rated NEMA A600, 600 Volt, 10A continuous duty, 7200VA make, 720VA break AC. Gold plated contacts shall be used for low power circuit applications. Contacts shall have compression type screw terminals.
    - c. Unless specified otherwise, Push Buttons(s) shall be of the return to normal position.
  7. Controller Power Supply
    - a. The control panel shall include necessary DC power supply(s) for internally mounted panel components.
    - b. A regulated DC power supply shall be provided for the monitoring & control system components as required. The power supply shall include a terminal block for incoming AC,

output DC and ground connections. The power supply shall be of ample size so that the original designed capacity does not exceed 60% of its rated output.

- c. Power supply circuits shall include AC line electrical noise filtering capable of reducing induced transient voltages that may damage sensitive microprocessor circuits.
- d. Unit shall be supplied with battery backup. Battery shall be sized to provide 4 hours of backup power to controller, alarm and transducer systems.

## 8. Controller

The Vendor may choose to use either a PLC and touchscreen HMI based control system, or a remote terminal unit (RTU) with touchscreen industrial computer running an appropriate SCADA software application. See appropriate specification sections below for each.

### a. PLC and Touchscreen HMI Standards

- 1) A Microprocessor-based Controller shall be provided for control of the system based on the station discharge pressure and flow rate. Logic controller shall be furnished completely configured and tested providing the specified control, monitoring, display, input/output, annunciation, computations and other requirements for operation of the System.
- 2) The logic controller unit shall be an Allen Bradley CompactLogix controller consisting of a CPU with adequate memory and instructions, power supply, on-board and remote input/output signal conditioning, communications ports, and all other components required to make the telemetry unit perform all of the functions required in this specification.
- 3) The logic controller unit shall include a real time of day time clock w/battery back time stamping of data log records and scheduling periodic time of day based events. Clock shall not require reset after a site power failure has occurred.
- 4) The logic controller unit shall store system parameters including, logic configuration, setpoints, time delays, alarm and event data, counters and totalizers, etc. in field programmable (FLASH) non-volatile memory. Sufficient non-volatile memory must be provided to protect the required system wide variables.
- 5) The logic controller unit shall be furnished with a minimum of four (4) communication ports with multitasking and allow simultaneous support of all ports. Communication can be configured for RS485 Input/Output Ethernet module expansion, Operator Interface Terminal (OIT) display support, LANIWAN, etc. Unit shall have built in capability to be configured as a telemetry unit allowing for communication over radio or phone line based telemetry system.
- 6) The logic controller telemetry unit shall meet the following minimum design capabilities:
  - a) 64 Mbytes Non-volatile RAM (battery backed)
  - b) Real time clock accurate to +/-15 seconds per month
  - c) One (1) Ethernet 10/100 Base T port (RJ45)
  - d) One (1) RS-232 Serial Communications (115 KB PS) (RJ45)
  - e) One (1) RS485 Serial Multi-Drop Communications
  - f) One (1) RS232 Operator Interface Terminal Display Communications Port

- g) On-Board Input/Output support of twenty four- (24) discrete inputs (DI), twelve (12) discrete outputs (DO), eight (8) analog inputs (AI), and eight (8) analog outputs.
- 7) The logic controller unit shall not require any specialized tools for removal of the unit and must be capable of removal and replacement while still under system power. System components including logic controller, power supplies, etc. shall be DIN rail mounted. Terminations shall be via plug in connectors
- 8) Logic controller units on-board I/O and associated local/remote I/O modules shall meet national and international safety standards including UL, CSA, CE, DNV and Zone 2 Rated. In addition to the safety standards RTU system components shall also meet IEEE-472 (ANSI C37.90) surge withstand and IEC68-2-6 Vibration standards.
- 9) The logic controller unit and associated components shall have an operational temperature range of -40°C to 70°C (-40°F to 158°F) under relative humidity conditions of 5% to 95% non-condensing. Storage temperature range up to 85°C (185°F).
- 10) Logic controller units provided under this specification shall be capable of performing the necessary logic to control the IPWTF. These inherent capabilities shall include, but not be limited to the following:

Discrete input/output	Latch/unlatch relays
Analog input	Counters
Analog output	Comparators
Timers	Ladder logic
Pump Controller	Flow Totalization/Integration
Pump Alternation	Intrusion Detection
Mathematical Function Blocks	Time of Day Control w/Lockout
Stage Blocks	Ramp Blocks
Trending	Data Logging

- 11) Logic controller units shall be capable of performing diagnostic functions. The CPU shall continuously monitor the functionality of the system and record errors and specific system events. A diagnostic buffer shall retain fault and interrupt events.
- 12) The logic controller unit shall have I/O resources to support a wide variety of applications. The I/O sub-system shall maintain the following minimum design requirements:
  - a) Logic controller shall be supplied with the required inputs and outputs (I/O) to meet the specified requirements and allow for a minimum of 50% spare capacity for future expansion.

- b) I/O module shall be DIN rail mounted, have compression wire type terminals capable of accepting 18 AWG wire, have wire identification markers and I/O wiring diagram.
  - c) Each I/O module shall include diagnostic LEDs indicating module operational and I/O status.
  - d) Each I/O module shall be electrically isolated, meet IEEE-472 (ANSI C37.90) surge withstand certification, shall be removable under power and easily field replaced with a spare module requiring no software/hardware reconfiguration adjustments.
  - e) Each I/O module shall be safety keyed to insure proper installation and shall allow for remove and replacement under power. I/O modules shall permit installation and operation in hazardous locations as classified under UL, CSA Class 1, Div. 2, Groups A, B, C & D.
- 13) An Operator Interface/Keyboard Display (OIT) shall be supplied for the microprocessor based logic control unit. The unit shall be an Allen Bradley PanelView Plus 1000 Series, Maple Systems, or pre-approved equivalent with both a keypad & touch screen, and a minimum display size of 10.4 inch. The unit shall be fully compatible with the Allen Bradley controller.
- 14) Keypad/Display shall allow the Operator to view and modify system variables within the logic controller telemetry unit.
- a) Operator interface shall have sufficient performance to permit real time updates of system data and shall be capable of display update at least 3 times per second. Operator initiated screen change shall occur within 50 msec.
  - b) The display shall incorporate a power save feature that shuts down the display after 5 minutes of keyboard inactivity.
  - c) The system display shall be pre-configured to reflect system parameters.
  - d) The display shall support a minimum of 100 customizable main level process system displays. These displays shall be configured with graphical and text based data for the specific application to meet system monitoring and process control needs. The display shall be easily navigated by using a simple menu type format branching down to sub menus/levels.
  - e) The display shall allow an Operator to return to the main level with a one step push button entry. All system data and parameters shall be security protected. The system shall employ a hierarchical security password system affording a minimum of three (3) levels of password-protected access to the system.
  - f) The display system shall incorporate a basic trending package that shall allow sixty samples of time-based single discrete or analog data on a signal screen display. The Operator shall have the ability to scroll through time, forward and backwards, utilizing right and left function keys. The system shall allow trend display of any data point in the system.
- (1) The display system shall be able to display current and historical alarms and events. Upon the occurrence of a new unacknowledged alarm, the display shall show the date and time and sound an audible tone indicating the presence of an unacknowledged alarm. Acknowledging the alarm via the display keyboard shall silence the audible tone. Subsequent

alarms shall reactivate the alarm audible tone. Historical alarm and event information shall be viewable from the display with the last 1,000 alarms or events including date and time of alarm being available. It shall be possible for the archived data to be exported in Comma Separated Variable (CSV) format allowing use with standard spreadsheet and data base software applications.

15) Software Requirements:

- a) DAQFactory (DF) Runtime or Factory Talk to match MBR MCC supplier. No equal.
- b) Runtime to be compiled using version DF 5.87, or newer
- c) Runtime to provide, at minimum, the following screens:
  - (1) Main screen showing overall system using P&ID as template
  - (2) Link to Alarms Page showing active/inactive alarm conditions with user ability to turn ON/OFF
  - (3) Link to Graph Page with up to 30 day look back showing Well(s) ON/OFF cycles, Well(s) speed, PSI, GPM
  - (4) Link to History Page showing last 20 events, alarms, or user entered data
  - (5) Link to Calibration Page providing user the ability to specify High/Low engineering units
  - (6) Link to Statistics Page showing High/Low/Average values for Analog Inputs in daily/monthly/all-time, and runtime hours for all pumps, motors, equipment
  - (7) Link to Maintenance Page showing time elapsed for all equipment in percent until next service is due according to manufacturer's recommendations (either calendar time or actual runtime based)

9. SPEED SIGNAL ISOLATOR/TRANSMITTER

- a. A signal isolator/transmitter module shall be supplied to provide a means of interfacing the controller and variable frequency drives. This module shall accept a 4-20 ma or 1-5 VDC input signal and provide an isolated, powered, 4-20 mA DC output signal.

10. CONDENSATION PROTECTION

- a. The auto sensory control section shall be furnished with thermostatically controlled heater element to maintain internal panel temperatures higher than outside ambient air temperature to prevent condensation. The heater shall remain active at all times unless cutout by high temperature thermoswitch to prevent condensation.
- b. The heater's surface area for heat dissipation shall be large enough to prevent a skin burn (if an Operator's hand should inadvertently come in contact with the unit when energized).

2.06 Experience

- A. The panel supplier shall provide a panel which seamlessly integrates with the MBR MCC control panel, controls and automation. A stand-alone system which requires an independent access point shall not be allowed.

- B.** The panel supplier must have Field Staff available within a 60-mile radius to support the panel post installation.

END OF SECTION

## Section 462116

### MECHANICALLY CLEANED INFLUENT BAR SCREEN

#### PART 1 – GENERAL

##### 1.1 SUMMARY

- A. This section includes the furnishing of a front-cleaning, front-return link driven mechanically cleaned bar screen assembly and any auxiliary equipment or accessories to be installed in the location as specified herein.

Number of units: 1

Equipment designation: Mechanically Cleaned Influent Bar Screen

Equipment location: Machado WWTF San Miguel, CA (Outdoor Installation)

- B. All equipment supplied under this section shall be furnished by or through a single Screening System Supplier who shall coordinate with the Contractor; the design, fabrication, delivery, installation and testing of the screening components. The Screening System Supplier shall have the sole responsibility for the coordination and performance of all components of the screenings system with the performance and design criteria specified herein.
- C. The Contractor shall be responsible to coordinate all details of the screening equipment with other related part of the Work, including verification that all structures, piping, wiring, and equipment components are compatible. The Site General Contractor shall be responsible for all structural and other alterations in the Work required to accommodate the equipment. The District will be contracting with a system integrator to provide the electrical control panel. The screen supplier shall provide technical support to the integrator for the purposes of integrating the screen into the WWTF power and controls system(s). Screening supplier shall provide any and all sensory and local disconnects needed for a complete functioning channel mounted coarse screen.
- D. The Screening System Supplier shall provide a stand-alone local electrical and controls panel which is equipped with a power disconnect and local H-O-A controls panel. The subject panel shall have all componentry and functionality provide connection to the Headworks Remote Control Panel (see Section 17550). The connection between the local panel and Headworks Remote Control panel shall be by others.

##### 1.2 RELATED SECTIONS

- A. The following list of related sections is provided for the convenience of the Contractor and is for reference only to support commonly referenced sections that are in-general applicable to all equipment supplied.

1. Section 01300 – Submittals
2. Section 01350 – Anchorage & Bracing
3. Section 05050 – Metal Fastening
4. Section 17550 – Panel Instruments and Accessories

##### 1.3 REFERENCE STANDARDS

- A. American National Standards Institute (ANSI)
- B. American Society for Testing and Materials (ASTM)
- C. American Welding Society (AWS)
- D. American Institute of Steel Construction (AISC)
- E. American Bearing Manufacturers Association (ABMA)
- F. American Gear Manufacturers Association (AGMA)
- G. National Electrical Manufacturers Association (NEMA)
- H. Underwriters Laboratory (UL)



## **1.4 SUBMITTALS**

- A. The equipment manufacturer shall submit the following items:
1. One (1) electronic (6) set of General Arrangement drawings that illustrate the layout of the equipment, equipment weight, principal dimensions with related verifications required for installation including anchorage locations. Other related data including descriptive literature, Electrical Control Drawings, Catalog Cut Sheets for individual components and Drive Motor Data.
  2. A list of recommended Spare Parts including any Special Tools required for routine maintenance of the equipment is provided in Section 2.5.
  3. One (1) electronic set of O & M Manuals including As-Built Drawings of the Mechanically Cleaned Bar Screen Arrangement, Controls and Accessories shall be provided in digital format after equipment ship for inclusion in the Close-Out Submittal process.
  4. RAW Cad files in 2D and 3D for the purposes of onsite coordination
  5. Process/controls narrative
  6. Example panel layout for system where screen supplier supplies panel

## **1.5 QUALITY ASSURANCE**

- A. The Mechanically Cleaned Bar Screens shall be fully assembled and shop tested at the manufacturing facility prior to shipment.
- B. All equipment furnished under this Section and related sections shall be of a single manufacturer who has been regularly engaged in the design and manufacture of the equipment and demonstrates, to the satisfaction of the Engineer, that the quality is equal to equipment made by those manufacturers specifically named herein. The screen manufacturer shall have at least 15 installations of mechanically cleaned bar screen equipment that has been in successful operation, at similar installations, for at least five (5) years.
- C. The equipment furnished shall be fabricated, assembled, installed and placed in proper operation condition in full conformity with approved drawings, specifications, engineering data, and/or recommendations furnished by the equipment manufacturer.
- D. No screen manufacturer will be considered by the Engineer as an "or equal" by simply meeting the functional intent of the specifications.
- E. The screenings system shall have operations, origin of manufactured, after sales service & support in the United States of America.

## **1.6 WARRANTY**

- A. Manufacturer shall provide a written one (1) year standard warranty from the date of use of the mechanically cleaned bar screen equipment to guarantee that there shall be no defects in material or workmanship in any item supplied.

## **PART 2 – PRODUCTS**

### **2.1 MANUFACTURERS**

- A. The Basis of Design for the Screening System shall be as manufactured by Duperon Corporation, Or pre-approved equal. (See Section 3.5) Screen manufacturer seeking pre-approval must submit application a minimum of three (3) weeks prior to bid day. Charges

for additional engineering to alter the intention of the specification shall be at the cost of the manufacturer requesting such change. The necessary submission to be considered a pre-approved equal shall include the following information:

- a. Product data sheet
- b. Site Specific Proposal Drawing
- c. Installation drawings and instructions
- d. O & M Manual
- e. A list of WWTP's that equipment similar to that proposed has been installed within the previous 3-years and detailed contact information for operators familiar with the operation of the proposed equipment at each WWTP.

## 2.2 BASIS OF DESIGN

- A. The mechanically cleaned bar screen shall be an stainless steel link driven, front-cleaning, front-return type mechanically cleaned bar screen.
- B. The mechanically cleaned bar screen shall have a head sprocket only, with no sprockets, bearings, or similar drive components under water. Equipment featuring reciprocating rake arm, auger or lower bearings/sprockets/tracks below the water is not acceptable.
- C. The mechanically cleaned bar screen shall clean continuously, from bottom to top, the entire width of the scraper.
- D. The mechanically cleaned bar screen shall run continuously without an operator.
- E. The link system shall be such that it bends in one direction only, which allows it to become its own lower sprocket and frame. The link system shall also have the ability to flex around objects to avoid shutting down the unit. Equipment utilizing roller chain, ball bearing chain, or chain that requires more than annual maintenance is unacceptable.
- F. All non-corrosive materials shall be used in components traveling underwater. The scrapers and links shall be of stainless steel. The pins shall be of stainless steel.
- G. The unit shall have multiple scrapers. Units which have single raking arms or require cycle times shall not be allowed.
- H. Specifically excluded are: designs employing the use of endless moving media or cables and hydraulic cylinders to remove debris from the channel; units utilizing proximity or limit switches for reverse cycles; or the use of two or more motors to complete a screen cleaning cycle.
- I. The design shall be such to ensure that all maintenance can be accomplished at the operating floor level. No part of the drive system including sprockets, bearings, bushings or shafts shall be located below the water surface at maximum design flow. To reduce maintenance, the drive output shaft rotation shall be constant and in one direction.
- J. Design Conditions:

<b>Site Installation Information:</b>	
Channel Width:	18 inches
Channel Height:	3 feet
(upstream clearance) Channel Depth:	
Bar Opening Size:	0.25 inch
Angle of Installation:	30° from vertical
Average Flow:	0.325 MGD (Future 0.50 MGD)

Average Water Level:	4 inches
Maximum Flow:	1 MGD (for 18 inches wide)
Maximum Water Level:	7 inches
Maximum Head Differential:	1 foot
Minimum Water Level:	0 inches
Equipment Location:	Outdoors
Tear Drop Bars:	0.25 inch x 0.75 inch
Maximum Capture Capacity:	60 feet <sup>3</sup> /hour
Unit Overall Width (Measured at Widest Point):	42.5 inches
Discharge Height (Measured from Deck):	26.25 inches – 32.25 inches
Unit Height (Measured from Deck):	56.25 inches – 69.25 inches
Unit Overall Footprint:	79.92 inches – 107.53 inches
<b>Performance:</b>	
Scraper Spacing:	Typically 20.8 inches (every 3rd link)
Scraper Travel Speed:	50.5 inches/minute
Sprocket Speed:	1.82 RPM
Discharge Rate/Cleaning:	Every 24.7 seconds
Lifting Capacity:	500 pounds
<b>Components/Material:</b>	
Drive Position:	Right Hand
Drive Mechanics:	304 SSTL
Deadplate:	304 SSTL
Enclosure:	14 gauge 304 SSTL
Enclosure Access Panels:	14 gauge 304 SSTL
Screen Frame:	304 SSTL
Screen Bars:	316L SSTL
Chain:	1.5 inch thick UHMW PE – UV Stable
Scrapers:	0.50 inch thick UHMW PE – UV Stable
<b>Outdoor Installation:</b>	
Site Access Constraints:	
Below Freezing Temperatures:	Yes
Installation Area (Envelope) Classification:	Unclassified
<b>Collection and Conveyance:</b>	
Containment Height:	TBD
Debris Bin:	TBD
Conveyor:	TBD
Washer/Compactor:	Yes
Other:	

## 2.3 COMPONENTS

**A. Bar Screen Assembly:** The bar screen assembly shall be of 304 stainless steel designed to withstand a one (1) foot head differential and shall be mounted at 30 degrees from vertical. The bar screen anchors and fasteners shall be of 304 stainless steel. See Design Table for slot opening and channel dimensions required. The bar screen shall be shipped partially assembled, crated and requiring minimal assembly prior to installation.

1. **Screen Bars:** Screen Bars shall be 316L stainless steel and be tear shaped with minimum dimensions of 0.25 inch X 0.75 inch x 0.13 inch.

**B. Scrapers:** Scrapers shall be of 304 stainless steel. Each scraper (typically every 20.8 inches) shall fully penetrate the bar screen, cleaning all three sides of the bars in openings equal to or greater than ¼ inches. Scrapers to have 304 stainless steel support brackets. The scrapers move at approximately 50.5 inches per minute at manufacturer's recommended operating speed of 1.82 rpm.

- C. **Dead Plate:** Dead plate shall be constructed of 14 gauge, 304 stainless steel. Dead plate shall span the entire width of the screen and transition from bar screen to discharge point.
- D. **Explosion Proof Drive Unit:** Each mechanically cleaned bar screen unit shall operate independently and will have its own drive unit and driven components. The gearbox shall not be vented to outside atmosphere and shall be grease lubricated and sealed for life with no maintenance. The gearbox shall be right angle type and shall incorporate Hyponic® bevel gearing with a total ratio of 240:1 once coupled with the reducer. The gear reducer output shaft speed shall be approximately 1.82 rpm – 7.29 rpm. The Motor shall be a ¼ HP, 3/60/240/480 Volt, inverter duty. Standard motor shall be a Marathon motor assembled with a Sumitomo reducer/gearbox assembly. Motor shall have N/O thermostat to be field wired to corresponding terminals in control panel for redundant (ambient) overload protection, but shall primarily rely on the VFD parameters for overload protection.
1. The motor shall be mounted to the gear reducer by utilizing a quill, “C” Face. It shall be AC induction type, inverter-duty, 1/4 HP, 1750 RPMs base speed, 3 phase, 240/480 volt and have the following characteristics: It shall be explosion proof rated for Class I, Groups C & D, Class II, Groups F & G environments and for use with an inverter. It shall have a 4/1 speed range, EPNV enclosure, NEMA design B with a 56C frame size. Service factor shall be at least 1.0 with 1600V, Class F insulation rated for temperatures up to 40° C.
  2. The motor shall be controlled by an AC Tech, vector type inverter or other per rake manufacturer’s recommendation. Motor shall also have N/O thermostat to be field wired to corresponding terminals in control panel for redundant (ambient) overload protection, but shall primarily rely on the VFD parameters for overload protection. The drive unit shall be coated in strict accordance with the paint manufacturer’s specification. Surface Preparation shall be done in accordance with SSPC-SP-10 near-white. The three-part coating system shall be manufactured by Tnemec as follows: Prime Coat Series 90-97 Tnemec Zinc at 2.5-3.5 mils DFT, Intermediate Coat Series 27 F.C. Typoxy at 3.0-5.0 mils DFT, and Top Coat Series 1075U Endura-Shield II at 2.0-3.0 mils DFT. Standard color is 11SF Safety Blue. Material shall meet all state and federal VOC and other regulatory requirements.
- Alternatives: Any alternate products must provide certified test reports when submitting products other than those specified herein the specification. Test reports shall indicate the test method, system and requirements for those products being submitted, and shall meet or exceed the test criteria and performance values of the specified coatings herein.
- E. **Speed Reducer:** Shall be cast aluminum and cast iron and shall be sealed and permanently lubricated and have a 1.82 rpm – 7.29 rpm, 1840 in.lb. output torque, 240:1 reduction ratio.
- F. **Bearings:** Shall be chrome plated sealed or rolling element type or UHMW-PE UV Stable Self-lubricating plain.
- G. **Link Slides:** Shall be constructed of UV Stable UHMW-PE and 304 stainless steel and shall be incorporated to support the upstream link system.
- H. **Side Fabrication:** The screen framework shall be 304 stainless steel bent plate, with a minimum thickness of 14 gauge. Frame shall adequately support the bar screen.
- I. **Closeouts:** Closeouts shall be stainless steel and assure that that there is no space wider than the opening between the bars, to prevent passage of larger solids than allowed through the screen. Closeouts shall be incorporated into the side fabrication framework and return guides as determined by the manufacturer.
- J. **Channel Bottom Plate:** A 304 stainless steel, 3/16 inch thick channel bottom plate shall be an integral part of the screen frame.

- K. **Debris Blade Assembly:** A debris blade assembly shall be installed to assist in removing debris from the scrapers on the mechanically cleaned bar screen as recommended by the manufacturer. The debris blade assembly shall incorporate a return guide proportionate to the speed of the traveling scrapers that allows for a better angle relationship to the scraper for more effective debris removal and zero impact which allows for longer component life. Stainless Steel material shall be utilized to deliver a quiet and easy transition back into position after debris is removed from UHMW passing scraper.

Mechanical torque limiting devices, auto reverse, shear pins and proximity devices are unacceptable.

- L. **Sprocket/Shaft:** Shall be fabricated 304 stainless steel.
- M. **SmartLink™ System:** Shall be of stainless steel and 302/4 stainless steel pins with the lifting capacity of 500 pounds.
- N. **Screen Enclosure:** A 14 gauge #4 brushed satin finish 304 stainless steel Enclosure shall be installed to cover the screen above the operating deck level. Front and Rear Enclosure shall have a removable panel for access to equipment. Removable panels shall be 14 gauge 304 SSTL and shall be provided with handles and attachment straps for "no tool required" access. Alignment notches shall be included to support repositioning of removable panels.

## 2.4 ELECTRICAL, CONTROLS, INSTRUMENTATION

### A. General:

1. Controls shall be provided by bar screen manufacturer and shall be the Duperon® FlexRake® package, or an approved equal, for a 3PH 480VAC incoming power supply.
2. The main control panel shall be supplied by the system integrator and not the responsibility of the screen supplier
3. Mounting stands, hardware, conduit, junction boxes and installation shall be provided by the electrical contractor and are not part of the bar screen manufacturer's scope of supply.
4. The controls shall operate manually in Hand mode and utilize a discreet input in Auto mode.
5. Motor overload protection shall be provided by the VFD, which is programmed by the system integrator according to the requirements of the screen supplier.
6. Screen supplier shall provide local control push button station.
7. Screen supplier shall provide the system integrator with;
  - a. Controls narrative
  - b. Process description

### B. Components:

#### 1. Local Control Push Button Station

- a. Enclosure shall be NEMA 4X rated for unclassified installation. Local control push button station must be local to the equipment to maintain requirements of local safety codes as determined by the Engineer.
  - b. Local station shall be mounted within 10 feet or as close to the equipment as safely possible and be field wired by the electrical subcontractor to the corresponding terminal inputs in the main control panel.
  - c. The remote pushbutton station shall include Forward, Jog Reverse and E-Stop buttons.
2. **Instrumentation:** Each raking assembly shall have a separate level system that shall be installed and field wired by others per the manufacturer's instructions. Note that

the HydroRanger® can be installed in the control panel or remotely and wired to the control panel.

- a. Differential Level Control: Shall use a Relay based logic control with a HydroRanger® 200. The rake will automatically start/stop based on the head loss across the screen. Cycle timing logic shall also be included in the program that shall function in parallel with the differential level control logic for optimal rake run time. Level sensing instrumentation shall be a Siemens HydroRanger® 200 with (2) Ultrasonic Level Transducers. Transducers shall be installed upstream and downstream of the rake, at least 1 foot above the highest anticipated water elevation and the beam angle shall not have obstructions between the transducer face and the water surface. The HydroRanger will be configured with two level set points. A mechanical float switch must be installed in conjunction with the HydroRanger® as backup control.
- Siemens HydroRanger® 200 with (2) Ultrasonic Level Transducers. Transducers shall be installed upstream and downstream of the rake, at least 1 foot above the highest anticipated water elevation and the beam angle shall not have obstructions between the transducer face and the water surface. A mechanical float switch must be installed in conjunction with the HydroRanger® as backup control

**B. Controls Design Conditions:**

Incoming Power: (Voltage/Phase)	480/3/60
Enclosures:	One Main Panel
Installation location:	Outdoors
Approx. distance between main panel and equipment motor:	TBD
Climate controlled location:	No
Outdoor location (must be shaded):	By Others
Outdoors Location: Thermostat, air conditioner and heater.	
Transducer/Float cable length:	50 feet (standard)

**2.5 SPECIALTY TOOLS AND SPARE PARTS**

A. Headworks vendor shall provide all specialty tools and spare parts required for maintaining the equipment as follows:

- 1. Snap/Retaining Rings (10)
- 2. Link Clevis Pin (4)
- 3. Snap Ring Tool (1)
- 4. Never-Seez®, 1 oz. tube (1)
- 5. Scraper Bolts (4)
- 6. Scraper Nuts (4)
- 7. Scraper Washers (4)

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

Product shall be installed in strict conformance with the manufacturer’s installation instructions, as submitted with Shop Drawings, Operation & Maintenance Manuals and/or any pre-installation checklists. Installation shall utilize standard torque values and be installed secure in position and neat in appearance. Installation shall include any site preparation tasks, such as de-watering and clearing the fore bay of debris; pre-installation tasks as determined by the manufacturer; such as unloading, touch-up painting, etc. and any other installation tasks and materials such as wiring, conduit, controls

stands, as determined by the customer and/or specified by the manufacturer. The contractor must ensure the unit's frame is within 1/8 inch of scraper on each side as the equipment is installed.

### **3.2 TESTING**

After completion of installation, Contractor shall provide for testing. Testing of the Duperon® FlexRake® package, or an approved equal, and shall demonstrate that the equipment is operational and that the equipment will pick up and deposit materials into container.

### **3.3 ONSITE TECHNICAL ASSISTANCE**

Manufacturer shall provide services to include Installation Certification, and shall include (1) day for Start-Up and (1) day for Training. Manufacturer shall be given minimum (14) days notification prior to the need for such services. To assure the best outcome for the Owner and Contractor, the Contractor shall provide certification for completion of the Pre-Commissioning Checklist.

### **3.4 DESIGN SUPPORT SERVICES**

- A. The equipment manufacturer shall provide design support services to the Engineer in order to fully integrate the selected mechanical screen and washer-compactor into the final contract documents for use by the Contractor.
- B. Scope of the services shall include, but are not limited to, the following tasks:
  - 1. Within four (4) weeks of entering into a contract with the District, Supplier shall submit Technical Submittals as required to adequately define the mechanical screen and washer-compactor and should include:
    - a. Submittals as required in these specifications.
    - b. Process and Instrumentation Diagrams (P&IDs) and panel design relative to the mechanical screen and compactor requirements.
    - c. The mechanical screen and compactor process layout and design criteria.
    - d. The mechanical screen and compactor support equipment and layout, including, process control equipment and ancillaries. The operations and controls of the mechanical screen and compactor.
    - e. Specifications for installation and testing of the mechanical screen and compactor by Contractor.
  - 2. Respond to Engineer's questions during the design.
  - 3. Attendance at a one (1) day Design and Controls workshop at the District's WWTF to review and finalize screen and washer-compactor details after Technical Submittals have been submitted.

### **3.5 SUBSTITUTIONS**

- A. Requests for substitutions of equipment or materials shall conform to the requirements of the Procurement Documents, and as hereinafter specified.
- B. Supplier shall submit for each proposed substitution sufficient details, complete descriptive literature and performance data together with samples of the materials, where feasible, to enable the DISTRICT and District Engineer to determine if the proposed substitution is equal.
- C. Supplier shall submit certified tests, where applicable, by an independent laboratory attesting that the proposed substitution is equal.
- D. A list of installations where the proposed substitution is equal.

- E. Requests for substitutions shall include full information concerning differences in cost, and any savings in cost resulting from such substitutions shall be passed on to the Owner.
  - F. Where the approval of a substitution requires revision or redesign of any part of the work, including that of other Contracts, all such revision and redesign, and all new drawings and details therefore, shall be provided by the Supplier at his own cost and expense, and shall be subject to the approval of the DISTRICT and District Engineer.
  - G. In the event that the Engineer is required to provide additional engineering services, then the Engineer's charges for such additional services shall be charged to the Supplier.
  - H. In all cases the DISTRICT and District Engineer shall be the judge as to whether a proposed substitution is to be approved. The Supplier shall abide by their decision when proposed substitute items are judged to be unacceptable and shall in such instances furnish the item specified or indicated. No substitute items shall be used in the work without written approval of the DISTRICT and District Engineer.
  - I. Supplier shall have and make no claim for an extension of time or for damages by reason of the time taken by the District Engineer in considering a substitution proposed by the Supplier or by reason of the failure of the District Engineer to approve a substitution proposed by the Supplier.
- I. Acceptance of any proposed substitution shall in no way release the Supplier from any of the provisions of the Procurement Documents.

#### **PART 4- PERFORMANCE**

1. The screen supplier shall warranty the performance of the above screen parameters and will be responsible for any and all repairs necessary to the system to meet the above performance criteria in the event any criteria is not met. This includes any and all labor or materials. The screen supplier shall work with the system integrator to ensure that the screen functionality meets the screen suppliers minimum requirements.

-END OF SECTION-



## Section 462173

### Low Flow Washer Compactor

#### PART 1 – GENERAL

##### 1.1 SUMMARY

- A. The vendor shall furnish a double helix Single auger washer compactor assembly as specified herein. A single unit shall provide washing and compacting action on wastewater screenings. The equipment shall be manufactured by Duperon Corporation in accordance with this section, or an approved equal.

Number of units: 1

Equipment designation: Low Flow Screenings Washer Compactor

Equipment location: Machado WWTF San Miguel, CA (Outdoor Installation)

- B. The Vendor shall be responsible to coordinate all details of the screening equipment with other related part of the Work, including verification that all structures, piping, wiring, and equipment components are compatible. The General Site Contractor shall be responsible for all structural and other alterations in the Work required to accommodate the equipment.
- C. The Washer Compactor System Supplier shall provide a stand-alone local electrical and controls panel which is equipped with a power disconnect and local H-O-A controls panel. The subject panel shall have all componentry and functionality provide connection to the Headworks Remote Control Panel (see Section 17550). The connection between the local panel and Headworks Remote Control panel shall be by others.

##### 1.2 RELATED SECTIONS

- A. The following list of related sections is provided for the convenience of the Contractor and is for reference only to support commonly referenced sections that are in-general applicable to all equipment supplied.
  1. Section 01300 – Submittals
  2. Section 01350 – Anchorage & Bracing
  3. Section 05050 – Metal Fastening
  4. Section 17550 – Panel Instruments and Accessories

##### 1.3 REFERENCE STANDARDS

- A. American National Standards Institute (ANSI)
- B. American Society for Testing and Materials (ASTM)
- C. American Welding Society (AWS)
- D. American Institute of Steel Construction (AISC)
- E. American Bearing Manufacturers Association (ABMA)
- F. American Gear Manufacturers Association (AGMA)
- G. National Electrical Manufacturers Association (NEMA)
- H. Underwriters Laboratory (UL)

##### 1.4 SUBMITTALS

- A. The equipment manufacturer shall submit the following items:

1. General Arrangement drawings that illustrate the layout of the equipment, equipment weight, principal dimensions with related verifications required for installation including anchorage locations. Other related data including descriptive literature, Electrical Control Drawings, Catalog Cut Sheets for individual components and Drive Motor Data. See Appendix for quantity required.
2. A list of recommended Spare Parts including any Special Tools required for routine maintenance of the equipment shall be provided.
3. O & M Manuals including As-Built Drawings of the Washer Compactor and Conveyor Arrangement, Controls and Accessories shall be provided after equipment ship for inclusion in the Close-Out Submittal process.
4. Complete drawings in 2D and 3D for incorporation into project design.
5. Controls/Process Description for system integrator
6. Standard Control panel design drawings

## **1.5 QUALITY ASSURANCE**

- A. The Washer Compactor shall be fully assembled, and shop tested at the manufacturing facility prior to shipment.
- B. To assure quality and performance: All equipment furnished under this Section and related sections shall be of a single manufacturer who has been regularly engaged in the design and manufacture of the equipment and demonstrates, to the satisfaction of the Engineer, that the quality is equal to equipment made by those manufacturers specifically named herein. And the Washer Compactor manufacturer shall have at least 5 installations of the specified model of Washer Compactor equipment that has been in successful operation, at similar installations, for at least one (1) year. Upon request, the manufacturer shall provide a reference of such installation sites along with the relevant contact information.

Possible consideration may be given to manufacturers with less installation experience but only upon submission and approval of dimensional and installation drawings and O & M Manuals. Additionally, a complete product development plan with dates indicating all applicable alpha and beta testing shall be provided for review and acceptance.

Approval of any manufacturer that does not meet the installation experienced defined herein shall be contingent upon submission and approval of the previously defined information. Additionally, such manufacturers shall be required to provide a performance bond issued in favor of the owner, covering the full amount of the manufacturer's offering and for the entire warranty period of the project.

- C. The equipment furnished shall be fabricated, assembled, installed and placed in proper operation condition in full conformity with approved drawings, specifications, engineering data, and/or recommendations furnished by the equipment manufacturer.

## **1.6 WARRANTY**

- A. Manufacturer shall provide a written two-year warranty from the date of District commissioning and acceptance of the Washer Compactor equipment to guarantee that there shall be no defects in material or workmanship in any item supplied.

## **PART 2 – PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Washer Compactor shall be as manufactured by Duperon Corporation
- B. Or pre-approved equal. Washer Compactor manufacturer seeking pre-approval must submit application a minimum of three (3) weeks prior to bid day. Charges for additional engineering to

meet the intention of the specification shall be at the cost of the manufacturer requesting such change. The necessary submission to be considered a pre-approved equal shall include the following information:

- a. Product data sheet
- b. Site Specific Proposal Drawing
- c. Installation drawings and instructions
- d. O & M Manual

## 2.2 BASIS OF DESIGN

- A. Compacting Action:** The Washer Compactor shall have a double helix hollow shaft auger to provide debris conveyance and compaction. Augers design shall be with a "limited floating feature" on top of a strainer to allow for the accommodation of irregular debris.
- B. Washing Action:** The Washer Compactor shall have a wash water manifold integrated into the main housing. Three ports inside the unit shall emit a medium pressure stream. Wash water shall run continuously when the Washer Compactor is in motion. Continuous operation (non-batching) equipment is required; filling- and batching-type equipment shall not be accepted.
- C. Operation:** The Washer Compactor shall be continuous run, not requiring an operator. The Washer Compactor shall create compaction through debris back pressure and be designed to accept non-standard wastewater debris in its original form, including but not limited to: rocks; broken concrete; and metal (such as bolts or short pipe) up to 4 inches long. The Washer Compactor shall have the ability to process multiple pieces of clothing, variable volumes of debris, and/or grease. The Low Flow Washer Compactor shall move at a normal operating speed of 0.5 to 2.2 RPM and shall have the ability to run intermittently to sync with upstream equipment.

## 2.3 COMPONENTS

- A. Main Housing:** The main housing of the Low Flow Washer Compactor shall be constructed of stainless steel (material options contained in table) with a minimum thickness of 11 gauge. Support and flange connections shall be 3/8 inch.
- B. Hopper:** The hopper of the Low Flow Washer Compactor shall be constructed of stainless steel with a minimum thickness of 11 gauge.
- C. Auger:** The auger shall be of stainless steel. The auger shaft shall be 2-inch stainless steel schedule 40 pipe with (2)-R.H Helix flight spirals of 8-inch diameter x 8 inch pitch x 3/8 thick, offset positioned for a 4 inch pitch. The auger shaft is coupled at the drive end to the gear box by way of a 2-inch solid stainless steel stub shaft and supported at the compaction end with UHMW plane bearings. This arrangement shall allow for the accommodation of irregular debris.
- D. Compaction Housing:** The compaction housing of the Low Flow Washer Compactor shall be 10-gauge stainless steel and shall house the auger supports.
- E. Discharge Chute:** The discharge chute of the Low Flow Washer Compactor shall be constructed of stainless steel with a minimum thickness of 14 gauge. Support and flange connections shall be 1/4 inch. The discharge chute shall be tapered outward toward the discharge end.
- F. Water Supply:** The water supply shall connect at a single point with a 1/2 inch NPT female connector. A NEMA 7/9 Explosion proof solenoid valve is provided to limit the wash water flow to only when the washer compactor is running. A ball valve shall be provided to distribute flow to the washing and trough sprayer connections.
- G. Strainer:** A strainer shall be located beneath the lower auger to filter the washed solids. The strainer shall be removable via the fasteners above the auger shaft, beneath the hopper sides.

The strainer shall be self-cleaning through continuous, even contact with the auger. Strainers requiring auger-mounted brushes will not be accepted.

- H. **Drain Trough:** Located beneath the strainer in the bottom of the inclined main housing where the collected wash water drains out through a horizontal 3-inch schedule 40 pipe.

- I. **Drive Assembly:**

- 1. Each Low Flow Washer Compactor unit shall operate independently, with its own drive unit and driven components. The gearbox shall not be vented to the outside atmosphere.
  - 2. The gearbox shall be grease lubricated and designed for 5 years (or 20,000 hours of operation) between recommended clean and re-grease services. The gearbox shall be right angle type, and shall incorporate cycloidal and spiral bevel gearing with a total ratio of 809:1. The gear reducer output shaft speed shall be 0.5 RPM minimum to 2.2 RPM maximum and controlled by an AC Tech, vector-type inverter (or greater service factor) based on unit torque requirements. It shall be shaft-mounted utilizing the keyless Taper-Grip® bushing.
  - 3. The motor shall be mounted to the gear reducer by utilizing a quill, C-Face mounting style. The motor shall be AC induction type, 0.50 HP, 3/60/230/460-volt, explosion-proof, inverter-duty model.
  - 4. The drive assembly shall incorporate the Duperon® standard coating system.
- J. **Speed Reducer:** The Speed Reducer shall have a maximum output of 2.2 RPM, 809:1 reduction ratio with 18,900 in-lb. of output torque.
- K. **Screw Supports:** Screw supports shall be UHMW plane type, self-lubricating, and secured within the clamshell assembly in the compaction housing.

## 2.4 ELECTRICAL, CONTROLS, INSTRUMENTATION

- A. **General:** Controls the Low Flow Washer Compactor shall be in enclosures provided by the system integrator. The washer compactor manufacturer shall be responsible for proper sizing coordination with the system integrator. The compactor supplier shall provide the system integrator with a complete controls narrative and/or process description to seamlessly function with the inlet screen.

- 1. **Local Control Push Button Station**

- a. Enclosure shall be NEMA 4/7/9 rated for classified area installation rated for unclassified installation. Local push button station must be local to the equipment to maintain requirements of local safety codes as determined by the Engineer.
    - b. Local station shall be mounted within 10 feet or as close to the equipment as safely possible and be field wired by the electrical subcontractor to the corresponding terminal inputs in the main control panel.
    - c. The remote pushbutton station shall include; Forward, Jog Reverse and E-Stop buttons.

- 2. **Sequence of Operations:**

- a. The Low Flow Washer Compactor controls shall enable the push button station

installed near the Washer Compactor when in "Hand" mode and utilize an input signal from a remote source when in "Auto" mode. Upon receiving a disruption of "remote source" signal in "Auto" mode, the Low Flow Washer Compactor shall utilize an off-delay timer to allow debris to finish depositing. The wash water solenoid is energized any time that the washer compactor is running.

- b. The Speed Controller fault shall be cleared by turning off the Washer Compactor, then waiting approximately three minutes (or time designated per current UL standards) and then turning the HOA back to the desired setting. A motor over temp fault shall clear automatically when the motor cools to a temperature within the normal operating range.

### **3. Miscellaneous:**

- a. The following shall be provided by the electrical contractor and are not part of the Low Flow Washer Compactor manufacturer scope of supply:
  - a. Mounting stands
  - b. Mounting hardware
  - c. Field wiring and conduit
    - i. VFD-rated motor cable (Belden #29502 or equal) recommended for all motors.
    - ii. Motor cables shall be less than 80 ft. long unless specified otherwise.
  - d. Junction boxes
  - e. Installation
- b. Field wiring shall include (but not be limited to) the following connections as applicable:
  - a. All incoming power supply to the main control panel.
  - b. All required grounding of the motor and controls.
  - c. Motor to the main control panel.
  - d. VFD-rated motor cable (Belden #29502 or equal) recommended for all motors.
  - e. Motor cables shall be 80 ft. long unless specified otherwise.
  - f. Motor thermostat to the terminal inputs in the control panel.
  - g. Wash water solenoid wiring
  - h. Input and output signal wiring for remote start/stop as required by plans/specs.
- c. Remote station contacts to the corresponding terminal inputs in the main control panel.

## **2.5 SPECIALTY TOOLS, SPARE PARTS AND LUBRICATION**

- A.** Manufacturer shall provide all specialty tools and all spare parts required for maintaining the equipment as follows:

1. Grease Tube (14oz.) (1)
  2. Never-Seez (1oz.) (1)
- B. Bagger:** A continuous bag system shall be provided for containing washed/compacted screenings as they are discharged from the end of the chute. The bagger shall include quick-release latches, and a bag dispenser/holder for storing the unused bags shall be easily removed for refilling. The bag dispenser shall hold (1) continuous bag pack, with (3) bag packs provided at delivery of equipment. Bag refills shall be Longofill/Paxxo 90-meter long refills.
- C. Drop Sleeve:** A flexible canvas sleeve shall be connected to the end of the Washer Compactor steel chute. The sleeve shall provide a guidance for dropping screenings. The sleeve shall help contain the debris as it falls and prevent debris from being scattered by the wind or otherwise impact the immediate environment. The sleeve shall be constructed of heavy-duty urethane canvas and be tethered to the surroundings as required (by others).

## **PART 3 – EXECUTION**

### **3.1 SHIPMENT**

Shipment of all equipment shall be coordinated to allow the Low Flow Washer Compactor shipment as one complete integrated assembly unless otherwise specified by the DISTRICT, or engineer.

### **3.2 INSTALLATION**

- A.** Equipment shall be installed in strict conformance with the manufacturer's installation instructions. The equipment supplier shall provide on-site technical support to the Site General Contractor during the installation process. Operation and Maintenance Manuals and/or any pre-installation checklists. Installation shall utilize standard torque values and be installed secure in position and neat in appearance. Installation shall include any site preparation tasks as required by the engineer or manufacturer; such as unloading, touch-up painting, etc. and any other installation tasks and materials such as wiring, conduit, controls stands as determined by the customer and/or specified by the manufacturer. All plumbing shall be completed on site by a qualified individual in accordance with all local and national plumbing regulations.
- B. Anchor Bolts:** Anchor bolts and nuts shall be 304 stainless steel and furnished for each item of equipment by the CONTRACTOR.
1. Anchor bolt template drawings shall be included in the submittal to permit verification of the location structural elements, new or existing in the concrete.
  2. Anchor bolt sizes, quantity and requirements will be indicated on the submittal drawings. Quantity is site specific but typically each Washer Compactor assembly requires (4) 1/2" dia. x 4 1/2" Lg. embed HILTI HAS RODS w/ RE-500v3 Adhesive system anchor bolts.

### **3.3 TESTING**

- A.** After completion of installation, CONTRACTOR shall provide for testing and shall be performed in strict conformance with the manufacturer's start up instructions. Testing of the Low Flow Washer Compactor shall demonstrate that the equipment is fully operational and that the equipment will wash, compact, and deposit materials not to exceed 4 inches.
- B.** Field certification shall include inspection of the following:
1. Verify Washer Compactor is properly leveled and anchored per the installation instructions and approval by the District.
  2. Assure controls and instrumentation work in all modes.
  3. Assure proper auger rotation.

4. Check to assure all Start-Up requirements are completed per the Installation Guide.

### **3.4 ONSITE TECHNICAL ASSISTANCE**

- A. Manufacturer shall provide services to include Installation Certification, and shall include (1) day for Start-Up and Training. Manufacturer shall be given minimum 14 days notification prior to the need for such services. To assure the best outcome for the Owner and Contractor, the Contractor shall provide certification for completion of the PRE-COMMISSIONING CHECKLIST. Vendor may, with the approval of the DISTRICT, combine the start-up and training time for the Duperon® Washer Compactor with that of other Duperon® equipment, such as the Duperon® FlexRake®.

### **3.1 DESIGN SUPPORT SERVICES**

- A. The Supplier shall provide design support services to the Engineer in order to fully integrate the selected mechanical screen and washer-compactor into the final contract documents for use by the Contractor.
- B. Scope of the services shall include, but are not limited to, the following tasks:
  1. Within four (4) weeks of entering into a contract with the District, Supplier shall submit Technical Submittals as required to adequately define the mechanical screen and washer-compactor and should include:
    - a. Submittals as required in these specifications.
    - b. Process and Instrumentation Diagrams (P&IDs) and panel design relative to the mechanical screen and compactor requirements.
    - c. The mechanical screen and compactor process layout and design criteria.
    - d. The mechanical screen and compactor support equipment and layout, including, process control equipment and ancillaries. The operations and controls of the mechanical screen and compactor.
    - e. Specifications for installation and testing of the mechanical screen and compactor by Contractor.
  2. Respond to Engineer's questions during the design.
  3. Attendance at a one (1) day Design and Controls workshop at the District's WWTF to review and finalize screen and washer-compactor details after Technical Submittals have been submitted.

### **3.2 SUBSTITUTIONS**

- A. Requests for substitutions of equipment or materials shall conform to the requirements of the Procurement Documents, and as hereinafter specified.
- B. Supplier shall submit for each proposed substitution sufficient details, complete descriptive literature and performance data together with samples of the materials, where feasible, to enable the DISTRICT and District Engineer to determine if the proposed substitution is equal.
- C. Supplier shall submit certified tests, where applicable, by an independent laboratory attesting that the proposed substitution is equal.
- D. A list of installations where the proposed substitution is equal.
- E. Requests for substitutions shall include full information concerning differences in cost, and any savings in cost resulting from such substitutions shall be passed on to the DISTRICT.
- F. Where the approval of a substitution requires revision or redesign of any part of the work, including that of other Contracts, all such revision and redesign, and all new drawings and details therefore, shall be provided by the Supplier at his own cost and expense, and shall be subject to the approval of the DISTRICT and District Engineer.

- G.** In the event that the Engineer is required to provide additional engineering services, then the Engineer's charges for such additional services shall be charged to the Supplier.
- H.** In all cases the DISTRICT and District Engineer shall be the judge as to whether a proposed substitution is to be approved. The Supplier shall abide by their decision when proposed substitute items are judged to be unacceptable and shall in such instances furnish the item specified or indicated. No substitute items shall be used in the work without written approval of the DISTRICT and District Engineer.
- I.** Supplier shall have and make no claim for an extension of time or for damages by reason of the time taken by the District Engineer in considering a substitution proposed by the Supplier or by reason of the failure of the District Engineer to approve a substitution proposed by the Supplier.
- J.** Acceptance of any proposed substitution shall in no way release the Supplier from any of the provisions of the Procurement Documents.

-END OF SECTION-



<b>Washer Compactor LFWC.A.5 Data Sheet</b>	
<b>Model Capacity:</b>	25 cu.ft./hr
<b>Wastewater Application:</b>	Up to 4MGD (1/4" barscreen)
<b>Peak Capacity (approx. 7 minutes):</b>	8 cu.ft.
<b>Average Capacity (continuous):</b>	5.5 cu.ft./hr
<b>Water: Typical</b>	<ul style="list-style-type: none"> <li>• Utilizes filtered effluent or municipal water</li> <li>• Consumes 3-10 GPM</li> <li>• Requires 40-60 PSI</li> <li>• 1/2 inch NPT supply (female threads)</li> <li>• 3 inch drain (Fernco style fittings)</li> </ul>
<b>Materials of Construction:</b>	<ul style="list-style-type: none"> <li>• 304 SSSL</li> <li>• Delrin (or equivalent) thrust and plane bearings</li> <li>• UHMW Auger Supports</li> </ul>
<b>Strainer:</b>	Perforated Screen
<b>Hopper Height (Deck to Hopper):</b>	26-3/4"
<b>Hopper Length :</b>	23-1/2"
<b>Below Freezing Temperatures:</b> Heat tracing required on body, support, transition and discharge chutes (installation/power by others)	No
<b>Performance Data (Typical Wastewater Debris)</b>	
<b>Dry Solids:</b>	30%-60%
<b>Mass/Weight Reduction:</b>	60%-70%
<b>Volume Reduction:</b>	70%-80%
<b>Odor/Fecal:</b>	Significantly decreases odor/fecal
<b>Motor/Drive</b>	
<b>Motor Size:</b>	0.5 HP
<b>Motor Paint:</b>	Duperon® Standard Tnemec Coating
<b>Motor Service Factor (Minimum):</b>	1.0
<b>Output Speed:</b>	2.2 RPM (max)
<b>Speed Reducer Ratio/Output:</b>	809:1
<b>Speed Reducer Paint:</b>	Duperon® Standard Tnemec Coating
<b>Site Power</b>	
<b>Phase/Voltage:</b>	3 phase 480 volt
<b>Controls</b>	
	<ul style="list-style-type: none"> <li>• Main Disconnect</li> <li>• Emergency Stop</li> <li>• HOA (Auto is discreet "Run" input)</li> <li>• Fwd/Jog Reverse/E-Stop Push Button Station</li> <li>• Explosion-Proof station (local standard)</li> </ul>
<b>Mounting:</b>	<ul style="list-style-type: none"> <li>• Wall</li> <li>• Pedestal (by others)</li> </ul>
<b>Project Management</b>	
<b>Submittal Quantity:</b>	2 - 4
<b>O&amp;M Manual Quantity:</b>	2 - 4
<b>Warranty Period:</b>	1 year
<b>Shipping</b>	
	<ul style="list-style-type: none"> <li>• Main unit</li> <li>• Chute(s)</li> </ul>

**PART 4- PERFORMANCE**

1. The compactor supplier shall warranty the performance of the above screen parameters and will be responsible for any and all repairs necessary to the system to meet the above performance criteria in the event any criteria is not met. This includes any and all labor or materials. The compactor supplier shall work with the system integrator to ensure that the compactor functionality meets the compactor suppliers minimum requirements.

**SECTION 462323**  
**VORTEX GRIT HANDLING SYSTEM (AIRLIFT)**

**Part 1 GENERAL**

**1.1 SCOPE** – Supply all labor, materials, equipment and incidentals required to manufacture, factory test, deliver to site, provide installation assistance to the Site General Contractor, and place into operation the an above grade, self-standing, grit removal system as specified herein.

- A. The Grit Handling System Supplier shall provide a stand-alone local electrical and controls panel which is equipped with a power disconnect and local H-O-A controls panel. The subject panel shall have all componentry and functionality provide connection to the Headworks Remote Control Panel (see Section 17550). The connection between the local panel and Headworks Remote Control panel shall be by others.

**1.2 REFERENCE STANDARDS** – The properties of all materials, design, fabrication and performance of the equipment to be furnished under this section shall be in accordance with the latest issue of applicable standard specifications. The governing authorities of these standards are listed below.

- A. AICS, American Institute of Steel Construction
- B. AISI American Iron and Steel Institute
- C. ANSI, American National Standards Institute
- D. ASCE, American Society of Civil Engineers
- E. ASME, American Society of Mechanical Engineers
- F. ASTM, American Society of Testing and Materials
- G. AWS, American Welding Society
- H. IBC, International Building Code
- I. IEC, International Electric Code
- J. IEEE, Institute of Electrical and Electronics Engineers
- K. NEC, National Electrical Code
- L. NEMA, National Electrical Manufacturers Association
- M. Underwriters Laboratory (UL and cUL)

**1.3 SUBMITTALS** – Submittals shall be provided to the engineer that includes all the following information:

- A. Certified shop drawings showing all important details of construction, dimensions and anchor bolt locations.
- B. Descriptive product literature.
- C. Schematic electrical wiring diagram and electrical controls information.
- D. Complete motor and drive data.
- E. The total weight of the equipment.
- F. A complete bill of materials of all equipment.
- G. A valid certificate of registration naming manufacturer, and supplier if equipment is relabeled, as ISO 9001:2015 certified.

**1.4 QUALIFICATIONS**

- A. All the equipment specified under this Section shall be supplied by a single manufacturer whose Quality Management System is ISO 9001:2015 certified and applicable to the manufacture of water and wastewater treatment equipment.
- B. If equipment is not manufactured by supplier, including welding and machining, the name and contact information of manufacturing facility must be supplied. If more than one manufacturer is used all companies and facilities must be provided.
- C. If patents protecting equipment are not owned by supplier then an affidavit must be supplied stating owner of design and expiration of licensing agreement.

**1.5 DESIGN REQUIREMENTS – VORTEX COLLECTOR**

- A. System Description
  - 1. The Grit Trap will be a “vortex” style system designed to operate continuously.
  - 2. The wastewater flow will enter the chamber tangentially, flow around the upper separation chamber and exit via an outlet channel running parallel to the inlet.

3. The grit solids will fall through the upper separation chamber to settle in the lower collection hopper. The transfer grit pump will regularly cycle and transport the grit particles to the de-watering Grit Classifier.
4. Consistent performance of the grit chamber throughout the flow ranges will be maintained by the motor driven impeller that continuously rotates within the upper separation chamber. The device will provide the ideal conditions to enhance grit settlement and maximize the ejection of light organic solids from the chamber.
5. The floor of the upper separation chamber must be sloped to prevent grit accumulation and allow the grit to fall by gravity into the collection hopper. The design of the chamber shall be designed in collaboration between the equipment supplier and the Engineer.
6. All stainless steel (including drive tube, impeller and hardware) mentioned below as stainless steel shall be T316 stainless steel. All hardware shall be T316 stainless steel.

**B. System Performance**

1. The Grit Trap will be designed to meet the following grit removal performance guarantee at all flows up to and including the peak flow. Grit is defined as silica sand; specific gravity = 2.65 g/cc:
  - a. Grit greater than 50 mesh 95%
  - b. Grit greater than 70 mesh but not less than 50 mesh 85%
  - c. Grit greater than 100 mesh but not less than 70 mesh 65%
2. The Grit Trap model will be selected to meet the following design parameters:
  - a. Number of chambers required 1
  - b. Peak flow per chamber 1 MGD
  - c. Maximum allowable head loss at peak flow ¼ inches
  - d. Average flow .375 MGD (0.50 Future)
  - e. Low flow 0.10 MGD
  - f. Grit fluidizing water requirements 20gpm @ 40PSI

**1.6 DESIGN REQUIREMENTS – AIRLIFT PUMP ASSEMBLY**

**A. System Description**

1. The manufacturer shall supply an airlift pump to transfer the grit and liquid from the collection hopper to the grit screw classifier system.
2. The airlift pump shall be top mounted in accordance with manufacturer's recommendations.
3. The contractor shall supply the interconnecting 4-inch pipe from the top of the suction pipe to the grit screw classifier.
4. The equipment supplier shall supply the 1.5-inch air sparge and airlift pipelines from the site air supply to the head of the trap Classifier. This air will provide fluidizing of the grit and to provide the airlift. The total air requirement is a minimum of 70 CFM @ 6 psi.
5. System Performance – The grit pump will fully comply with the following criteria
  - a. Number of airlift pumps 1
  - b. Maximum pump capacity 80 GPM
  - c. Inlet connection 4 inches
  - d. Air line connections 1.5 inches

**1.7 DESIGN REQUIREMENTS – GRIT CLASSIFIER SYSTEM**

**A. System Description**

1. The Grit Classifier system will be adequately sized to receive and process a mixture of grit and liquid regularly pumped at the maximum specified rate from the vortex grit chamber.
2. A cyclone mounted on top of the Grit Classifier will provide initial dewatering. The excess liquid will be immediately returned to the main flow.

3. The partially dewatered grit will be deposited into the main body of the Grit Classifier. The heavy grit will settle in the collection hopper while the excess liquid will overflow an internal weir and be returned to the main flow.
4. The grit will be elevated by a rotating screw to a discharge point above the internal water level. By this time the grit material will be free of any free-standing liquid.
5. All stainless steel (including Grit Classifier, grit cyclone and hardware) mentioned below as stainless steel shall be T316 stainless steel.

B. System Performance – The Grit Classifier system will fully comply with the following criteria:

- |  |                |
|--|----------------|
| 1. Number of cyclones                      | 4 (6 Future)   |
| 2. Maximum capacity of cyclone:            | 250 GPM        |
| 3. Inlet flanged spool piece connection    | 4 inches       |
| 4. Overflow flanged spool piece connection | 6 inches       |
| 5. Apex                                    | 2 inches       |
| 6. Maximum underflow to screw classifier   | 30 GPM Maximum |
| 7. Number of screw classifiers             | TBD            |
| 8. Maximum capacity of screw classifier    | 30 GPM         |
| 9. Diameter of screw                       | 12 inches      |
| 10. Diameter of screw shaft                | 3 inches       |
| 11. Minimum length of screw                | 8 feet         |
| 12. Speed of screw                         | 12 RPM         |
| 13. Motor Size                             | 1/2 HP         |

## **Part 2 PRODUCTS**

### **2.1 MANUFACTURER**

- A. The equipment shall be the trap Classifier, Airlift Pump Assembly and the Grit Classifier as provided by Hydro-Dyne Engineering, Inc., Oldsmar, FL. Other than the named supplier, all manufacturers proposing equipment described herein, will provide a detailed submittal package, which will consist, at a minimum, of all information and details prescribed in section 2.2 of this specification. All pre-qualification submittals will be submitted to the Engineer at least 15 days prior to the bid date.
- B. If submitted equipment requires arrangement differing from that specified, prepare and submit for review complete structural, mechanical, and electrical drawings and equipment lists showing all necessary changes and embodying all special features of equipment proposed. Any changes are at no additional compensation and the Manufacturer will be responsible for all engineering costs of redesign by the Engineer, if necessary.

### **2.2 THE VORTEX TRAP**

A. General

1. The internal mechanism of the Grit Trap will consist of a helical gear motor, a drive head, a drive tube and a rotating impeller.
2. The grit chamber shall be a stainless steel structure provided by the equipment supplier that must have inlet and outlet channels as designed in collaboration between the equipment supplier and the Engineer.

B. Drive Head Assembly

1. The drive head will be a composite unit consisting of a heavy duty steel base and cover. The base section will support a nominal 20 inch turntable bearing that has a minimum B-10 life of 20 years. The equipment supplier will be responsible for correctly mounting the drive head on the bridge.
2. The support bridge will consist of galvanized support beams that will span the grit chamber to provide a 36" wide walkway and support the drive head and rotating mechanism. The equipment supplier will supply flooring and handrails as per the equipment manufactures requirements.
3. The drive tube will be rotated at a nominal 15 RPM by a heavy-duty spur tooth bull gear wheel securely bolted to the turntable bearing. This bull gear wheel will be driven by a steel drive pinion mounted on the output shaft of the helical gear motor. The helical gear motor will be supported by a cover that will have an access port to allow the equipment supplier to check that the gear wheel and pinion are centered correctly. The pinion and the bull gear will have a service factor of 5.0 or greater at standard operating speeds.

4. The helical gear motor will be directly shaft mounted to the bull gear wheel. Each drive head will have a single 3/4 hp, continuous duty electric motor suitable for a 460/3/60 supply and rated for a Class 1 Div.2 environment. As a minimum, the motor will be TEFC with an IP55 enclosure rating and will conform to NEMA MG-1 requirements.
5. The whole drive head assembly will be suitable for continuous operation.

#### C. Rotating Mechanism

1. The drive tube will be 10.75-inch diameter pipe that will run down the center of the grit chamber. The drive tube will pass through an opening in bull gear wheel and terminate inside the drive head as an open pipe. This will allow passage for the suction pipe assembly detailed in 2.3 B1.
2. The impeller will be attached to the drive tube by means of a two-piece collar. The impeller shall have four equally spaced blades fixed to a base plate. As the impeller rotates each blade will pass within 6 inches from the top of the collection hopper. The impeller blades will be set at 5 to 20 degrees to the vertical. The profile of the impeller blades will be designed to maximize grit capture and eject floating solids out of the chamber. The impeller will rotate at a nominal 15 RPM in the direction to the wastewater flow.
3. The rotating mechanism will be manufactured from stainless steel.

#### D. Airlift Pump Assembly

1. The airlift pump suction arrangement will consist of a 4-inch diameter suction pipe, a parallel 1.5-inch fluidizing pipe and a parallel 1.5-inch airlift pipe that will run down the inside of the drive tube to within 4 inches off the bottom of the grit collection hopper floor. All pipes will terminate immediately above the drive head. The Contractor will bring and connect an air supply to the 1.5 inch pipes to the head to provide the airlift and fluidizing of the grit.
2. The airlift pump suction assembly will be manufactured from stainless steel.
3. The equipment supplier will supply one (1) blower package. The contractor will connect the fluidizing pipe to an air supply that will deliver a minimum pressure of 70 CFM at 6 psig at the suction point. This will provide a blast of air that will agitate the grit prior to each pumping cycle.
4. The blower will be the horizontal, rotary, positive displacement type. The casing shall be made from close grained gray cast iron to prevent distortion under the specified service conditions. The drive end and gear end head plates will be precision machined from close grained cast iron for exact bearings housing fit. The impeller and shaft will be manufactured from high strength cast iron and will be supported by cylindrical roller bearings sized for a minimum of 50,000 hours of B-10 life. Each bearing will have a lip type oil seal, designed to prevent lubricant from leaking into the air stream.
5. The motor shall be 5 hp minimum continuous duty electric motor suitable for a 460/3/60 supply and rated for a Class 1 Div.2 environment. As a minimum, the motor will be TEFC with an IP55 enclosure rating and will conform to NEMA MG-1 requirements. It will be connected to the blower by a V-belt and sheave drive assembly.
6. The blower will include an integrated carbon steel intake silencer-filter with a removable weather hood. Also included will be a heavy duty, all welded, elevated fabricated steel combination discharge silencer/equipment base.
7. The package will include a weight type pressure relief valve, flanged type cast iron check valves with aluminum internals and a wafer type, resilient seated tight closing discharge butterfly valve. The butterfly valve will have iron body, phosphate treated steel stem, Buna N seat and position indicator.
8. The discharge pressure gauge will have a range of 0-15 psig and a 2.5" dial with a 270 degree scale.
9. The package will have a two-piece stainless steel or aluminum acoustic enclosure to reduce the noise level. The cover will be attached with stainless steel hinges to an FRP open style base flange which will be anchored to the concrete pad. An aluminum intake louver vent will provide cooling air to enter the enclosure during operation.

### 2.3 STAINLESS STEEL GRIT CHAMBER

1. The grit chamber will consist of an upper chamber and lower storage hopper. These will be welded together on site by qualified representative of the equipment manufacturer. The chamber will be fully braced to handle a full load of water.

2. The grit chamber will have a flanged inlet and outlet connection that will interface with the incoming and outgoing channels or pipes.
3. The manufacturer will supply a 36" wide galvanized steel support bridge that will be span the upper chamber that is adequately sized to support the centrally mounted drive head, drive tube and impeller without further support off the side walls or bottom of the tank. The equipment supplier shall supply the flooring and hand railing as per the equipment manufacturer's recommendations and per the approved shop drawings.
4. The equipment supplier will supply with ladder access to the support bridge in accordance with the equipment manufacturers shop drawings.
5. The grit tank will include a 4 inch connection to receive the grit suction pipe and a 1.5 inch connection for the water/air supply to fluidize the grit.
6. The grit chamber will have a fully braced support leg structure made from 4 inch x 4 inch T316 stainless steel tube that will be suitable for mounting to a flat concrete pad.
7. The grit chamber tank will be manufactured from T316 stainless steel.

## 2.4 GRIT CLASSIFIER SYSTEM

### A. Grit Cyclone

1. The grit pump will pump the grit mixture directly to a flanged inlet connection situated on the side of the cyclone through a 4 inch delivery pipe, supplied by the equipment supplier. The cyclone will be mounted on a support placed over the inlet hopper of the Grit Classifier.
2. The cyclone will be capable of receiving and processing pumped flow up to the maximum capacity per section 1.7.B.2. The excess water will be separated and returned to the main flow via a vortex finder and through a 6 inch flanged outlet connection situated on the top of the cyclone inlet head. The equipment supplier will supply and install the return pipe with siphon break in accordance with the equipment manufacturer's recommendations and approved shop drawings. The remaining concentrated grit mixture will be removed and directed via the cone and apex into Grit Classifiers inlet hopper. The apex will have a fixed neoprene rubber liner and include quick release toggle clamps.
3. The cyclone will be designed to remove at least 98% of grit entering the feed inlet that is larger than 100 micron and having a specific gravity of 2.65 or greater.
4. The cyclone will work on the constant centrifugal principle and have no moving parts. Pressure must be maintained above 5 psi.
5. The cyclone casing will be fabricated from Stainless steel plate sections. All sections shall be constructed with replaceable neoprene rubber liners.
6. The inlet adapter will include a 1.25" pressure gauge connection and the manufacturer shall supply a pressure gauge assembly complete with protective diaphragm, 0-30 PSI dial.

### B. The Grit Classifier

1. The partially de-watered grit mixture will fall by gravity from the underside of the cyclone into the main body of the Grit Classifier. The main body is comprised of an inlet hopper and a screw trough that will be manufactured from stainless steel plate.
2. The inlet hopper will have sloping side walls and a minimum pool area of 6ft<sup>2</sup>. The design will guarantee retention of 95% of 100-micron grit particles (silica sand with specific gravity of 2.65) at the maximum inflow without added internal baffle plates.
3. The grit particles will settle on the bottom of the inlet hopper. The excess liquid will spill over an internal weir within the inlet hopper and be returned to the sewage flow. The manufacturer will terminate with a flanged 4 inch pipe connection within 12 inches of the main body of the Grit Classifier.
4. The retained grit particles will be elevated from the inlet hopper by a rotating screw that runs the full length of the Grit Classifier. The full pitch screw will be installed at a nominal 16-degree angle to the horizontal.
5. The screw assembly will move the grit particles from the submerged inlet hopper to the "drying zone" section of the screw trough. The length of the "drying zone" must be no less than 2 feet to ensure adequate de-

watering. The dry grit will discharge from an outlet at the end of the screw trough and be directed into the dumpster (supplied by others).

6. The screw assembly will be supported within the main body by a top and bottom bearing arrangement specially designed to avoid premature wear by abrasive grit particles. The bearing arrangement must support the entire length of the screw and maintain a 1/2 inch nominal clearance between the screw flights and the full length of the Grit Classifier main body. This will allow a permanent grit layer to accumulate and act as a natural wear liner protection.
7. The bottom bearing shall be mounted externally to the main body of the classifier.
8. The bottom drive shaft bearing shall be mounted to the main body of the classifier and will consist of a (4) bolt flanged housing that is accessed externally to the hopper.
9. The entire Screw Classifier will be provided complete with the support legs suitable for mounting directly to the concrete pad.
10. The manufacturer shall provide lightweight minimum 16 gauge stainless steel covers that are easily removed for maintenance and totally enclose the Grit Classifier.
11. The manufacturer shall provide an E-STOP on the side of the collection hopper that is easily accessible for the operator.
12. The motor shall be 1/2 hp continuous duty electric motor suitable for a 460/3/60 supply and rated for a Class 1 Div.2 environment. As a minimum, the motor will be TEFC with an IP55 enclosure rating and will conform to NEMA MG-1 requirements.

## 2.5 CONTROL PANEL

- A. The equipment manufacturer shall provide technical support and assistance to the District, Site General Contractor, and WWTF SCADA integrator to incorporate the grit removal system into the WWTF control system.
- B. The Grit Handling System Supplier shall provide a stand-alone local electrical and controls panel which is equipped with a power disconnect and local H-O-A controls panel. The subject panel shall have all componentry and functionality provide connection to the Headworks Remote Control Panel (see Section 17550). The connection between the local panel and Headworks Remote Control panel shall be by others.
- C. General Information - The manufacturer will supply one UL listed 508A stainless steel main control panel and one local panel that shall automatically control the equipment offered in this section.
- D. The Main Control Panel – NEMA 4X – Each control panel shall consist of the following components for each grit system:
  1. Stainless steel NEMA 4X, control panel enclosure
  2. Main disconnect / door handle
  3. Motor starters, non-reversing, IEC w/ overload [Grit Impeller & Grit Classifier]
  4. Current monitor [ Grit Classifier]
  5. Hour meters
  6. Control power transformer, 480-120VAC, w/branch circuit fuses
  7. 24HR time clock
  8. Timers
  9. Pushbuttons: [E-Stop and Reset]
  10. Selector switches: [Vortex Off-On, Grit System H-O-A]
  11. Pilot lights, transformer type: [Control Power, Run and Fault per motor]
  12. 1 Lot, socket type, control relays
  13. 1 Lot, terminal blocks
  14. Remote contacts: [System Run and System Fault]
  15. Emergency stop
- E. One (1) Local Control Panel(s) – NEMA 7 - Each local control panel shall consist of the following components:
  1. Hand/Off/Auto switch
  2. Emergency stop
- F. Sequence of operation and control:
  1. The Grit Trap will run continuously.



2. The airlift pump can be controlled manually but will normally operate automatically in timed on/off adjustable cycles as selected.
3. In automatic mode the airlift pump cycle will be initiated by a 24-hour time clock.
4. The grit agitation cycle will start (0-5 minutes) and then stops.
5. The airlift pump and screw classifier will then start immediately (0-10 minutes).
6. The signal is received to stop and the grit pump stops immediately.
7. The Screw Classifier initiates a run-on cycle (0-5 minutes) and then stops.
8. End of cycle.

## **2.6 SURFACE PREPARATION AND PAINTING**

- A. The majority of stainless-steel materials, flanges and piping shall be pickled by means of a four-tank system that is in accordance with ASTMs A380. This process is for quality control, removal of heat affected discoloration, surface treatment for corrosive environments and to provide a uniform finish to the stainless-steel surfaces. Stainless steel components must be fully submerged in the tanks for complete coverage. Sandblasting, pickling pastes and abrasive cleaners will not be accepted as forms of metal finishing.

Tank 1 – Detergent bath for the removal of soils, greases, oils and dirt

Tank 2 – Rinsing process to remove detergent and residual soils

Tank 3 – Two part acid solution for the removal of tightly adhere oxide films

Tank 4 – Final rinse process to remove all residual acid

- B. All ferrous surfaces (except stainless steel) shall be coated with a pre-primer, primer, and an exterior top coating, or fusion bonded polyester coating suitable for humid/wet environments for superior corrosion protection.
- C. Motor(s) and gearbox(s) shall be surface prepared to withstand humid/wet environments for superior corrosion protection.

## **2.7 SPARE PARTS** - The manufacturer will supply the following spare parts:

- A. One screw classifier bearing assembly suitable for bottom bearing
- B. One (1) 4" Ni-Hard vortex finder
- C. One (1) Inlet head liner
- D. One (1) Cylinder liner
- E. One (1) Cone liner
- F. One (1) Apex liner

## **2.8 ACCESSORIES** – The manufacturer will supply the following accessories with the equipment:

- A. One (1) lot of necessary anchor bolts
- B. One (1) 1" brass body solenoid valve (GT Fluidizing)
- C. Two (2) 1" manual isolation valve (GT Fluidizing)
- D. One (1) 2" full port valve (GC Drain)

## **Part 3 EXECUTIONS**

- 3.1 WARRANTY** – The Manufacturer of the equipment supplied under this specification shall provide a warranty for a period of twenty-four months commencing on acceptance by the DISTRICT but no later than 90 days from the date of equipment start-up and final testing & adjustment. The Manufacturer shall guarantee that the equipment furnished is suitable for the purpose intended and free from defects in design, materials and workmanship. In the event that the equipment fails to perform as specified the Manufacturer shall, at his option, promptly repair, modify or replace the defective equipment.

## **3.2 FACTORY TESTING**

- A. The grit removal system and all components shall be factory assembled and operationally tested prior to shipment. The equipment shall be shipped fully assembled and shall be capable of being set in place and field erected by the Contractor with minimal field assembly.
- B. During the factory test period the grit removal system shall be adjusted as required assuring proper operation on completion of the field installation. The Manufacturer shall supply a certification of the completion of the factory testing of the assembled system and appurtenances and shall certify as to the equipment being in satisfactory operating condition at time of shipment. The Engineer and/or Owner may, at their own option and expense, witness the factory test.

## **3.3 DELIVERY AND STORAGE**

- A. The grit removal system shall be appropriately crated and delivered to protect against damage during shipment.
- B. An authorized representative of the equipment supplier shall inspect the equipment on delivery to the jobsite and shall report any damage or missing components to the Manufacturer and the Engineer within 24 hours of receipt of the shipment.

**3.4 INSTALLATION** – The installation of the grit removal system shall be as indicated on the drawings and in strict accordance with the Manufacturer's instructions and recommendations.

### **3.5 FIELD TESTS, ADJUSTMENTS AND COMMISSIONING**

- A. The equipment shall be shipped completely factory assembled. Equipment supplier, to the extent possible, shall verify all access dimensions, channel dimensions, and any interior building dimensions to ensure equipment may be installed as a factory assembled units.
- B. After completion of the installation, the equipment shall be inspected and certified by an authorized representative of the Manufacturer as being in compliance with the Manufacturer's recommendations and requirements. At such time as the Manufacturer has deemed the installation to be acceptable, the Manufacturer's authorized service representative shall make any required adjustments and shall start the equipment to assure proper operation.
- C. The Manufacturer's authorized representative shall provide instruction to the plant personnel as to the operation and maintenance of the equipment including commissioning, shut down, on-line operations, lubrication and preventative maintenance.
- D. Manufacturer shall state field service rates for a Service Engineer to Owner and Contractor. In the event that the field service time required by this section should not be sufficient to properly place the equipment into operation, and the requirement for additional time is beyond the manufacturer's responsibility, additional time shall be purchased by Contractor to correct deficiencies in installation, equipment, or material without additional cost to Owner.
- E. The Contractor shall include in his bid, the cost of the above referenced authorized service representative to travel to and be onsite to complete the certifications and training described in this specification section.

### **3.6 DESIGN SUPPORT SERVICES**

- A. The equipment manufacturer shall provide design support services to the Engineer in order to fully integrate the selected grit handling system into the final contract documents for use by the District
- B. Scope of the services shall include, but are not limited to, the following tasks:
  - 1. Within four (4) weeks of entering into a contract with the District, Supplier shall submit Technical Submittals as required to adequately define the grit removal system and should include:
    - a. Submittals as required in these specifications.
    - b. Process and Instrumentation Diagrams (P&IDs) and panel design relative to the grit removal system and compactor requirements.
    - c. The grit removal system process layout and design criteria.
    - d. The grit removal system and compactor support equipment and layout, including, process control equipment and ancillaries. The operations and controls of the grit removal system.
    - e. Specifications for installation and testing of the grit removal system by equipment supplier.
  - 2. Respond to Engineer's questions during the design.
  - 3. Attendance at a one (1) day Design and Controls workshop at the District's WWTF to review and finalize grit removal system details after Technical Submittals have been submitted.

### **3.7 SUBSTITUTIONS**

- A. Requests for substitutions of equipment or materials shall conform to the requirements of the Procurement Documents, and as hereinafter specified.
- B. Supplier shall submit for each proposed substitution sufficient details, complete descriptive literature and performance data together with samples of the materials, where feasible, to enable the DISTRICT and District Engineer to determine if the proposed substitution is equal.
- C. Supplier shall submit certified tests, where applicable, by an independent laboratory attesting that the proposed substitution is equal.

- D. A list of installations where the proposed substitution is equal.
  - E. Requests for substitutions shall include full information concerning differences in cost, and any savings in cost resulting from such substitutions shall be passed on to the Owner.
  - F. Where the approval of a substitution requires revision or redesign of any part of the work, including that of other Contracts, all such revision and redesign, and all new drawings and details therefore, shall be provided by the Supplier at his own cost and expense, and shall be subject to the approval of the DISTRICT and District Engineer.
  - G. In the event that the Engineer is required to provide additional engineering services, then the Engineer's charges for such additional services shall be charged to the Supplier.
  - H. In all cases the DISTRICT and District Engineer shall be the judge as to whether a proposed substitution is to be approved. The Supplier shall abide by their decision when proposed substitute items are judged to be unacceptable and shall in such instances furnish the item specified or indicated. No substitute items shall be used in the work without written approval of the DISTRICT and District Engineer.
  - I. Supplier shall have and make no claim for an extension of time or for damages by reason of the time taken by the District Engineer in considering a substitution proposed by the Supplier or by reason of the failure of the District Engineer to approve a substitution proposed by the Supplier.
- A. Acceptance of any proposed substitution shall in no way release the Supplier from any of the provisions of the Procurement Documents.

**End of Section**



## San Miguel Community Services District

### Board of Directors Staff Report

August 26<sup>th</sup>, 2021

**AGENDA ITEM: XI-4**

**SUBJECT:** Discussion on Integrated Waste Management Authority (IWMA)

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**RECOMMENDATION:** Discuss the status of Integrated Waste Management Authority (IWMA).

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The IWMA was formed in 1994 to plan and implement regional solid waste and hazardous waste programs.

The IWMA is currently comprised of a 13-member board, 1 member from each city (7 total), all 5 County Board Supervisors, and 1 representative for the 11 CSDs.

The State of California adopted several Assembly and Senate Bills that regulated the handling, separation, transportation, and disposition of solid waste throughout California.

Additionally, the state had formed CalRecycle to be the clearinghouse for compliance and reporting of these new requirements.

Currently, IWMA collects data from Solid Waste Haulers (such as San Miguel Garbage) and reports it to CalRecycle. IWMA also disseminates informational materials and performs site inspections and training on the regulations and how a business or agency can best comply with the regulations.

August 10<sup>th</sup> the County Board of Supervisors vote 3-2 to leave the IWMA.

With the County leaving IWMA information will need to be gathered and the District will need to decide on how best to proceed. Some basic questions are.

- What will the reformed IWMA look like, and what representation will the CSDs have
- Should the District stay with the reformed IWMA?
- Should the District attempt to join the County program?
- What benefit does the District get from being part of IWMA?
- Does the District want to take on the Reporting and compliance monitoring within the District?

- Should the District hire a consultant to provide a neutral cost/ benefit analysis of the District staying in IWMA, attempting to go to the County, or providing the services in-house?

Staff will be meeting with IWMA and the County to discuss what the options are for the District and what this separation and reform means to the District and Community from a workload and Cost perspective.

There will be additional information brought to the Board as it is available and ready for Board discussion and direction.

#### **FISCAL IMPACT**

No impact resulting from discussing this information.

PREPARED BY:

*Kelly Dodds*

Kelly Dodds, Director of Utilities



## San Miguel Community Services District

### Board of Directors Staff Report

August 26<sup>th</sup>, 2021

**AGENDA ITEM: XI-5**

**SUBJECT:** Review and approve Resolution 2021-28 authorizing a FY 2021-22 budget adjustment of \$10,000 to new Solid Waste object SB1383 Compliance (60-650) to be transferred from Solid Waste Operational reserve.

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**RECOMMENDATION:** Approve Resolution 2021-28 approving a budget adjustment of \$10,000 to new Solid Waste object SB1383 Compliance (60-650) to be transferred from Solid Waste Operational reserve.

---

The State of California has passed Senate Bill 1383 (SB1383) which requires additional monitoring of haulers and generators (customers), landfill diversion of recycling and organics, additional reporting, and mandatory purchasing of recycled products. As well as increased outreach and potential fining to force compliance.

Unlike prior bills, this bill puts much of the weight of this bill on the public agency (the District). In order to show we are complying there will be increased coordination with San Miguel Garbage/ Rolloff to ensure accurate/ timely reporting to CalRecycle. In addition, we will need to develop and pass additional ordinances to bring the District into compliance with this SB1383. The framework for this ordinances is being provided, however, they were developed for large urban cities which have different regulations under SB1383. The ordinances will need to be reviewed and refined for our District to provide the reporting, compliance, and enforcement aspects required under SB1383.

At this time we are requesting the creation of a new object under Solid Waste. SB1383 Compliance (60-650) and an initial budget amount of \$10,000 to fund and track the expenses related to the initial compliance and ongoing activities related to SB1383.

Initially, there will be legal expenses to review and provide guidance on the necessary ordinances and programs. After the initial startup period, there will likely be ongoing costs associated with the monitoring, reporting and enforcement of these regulations.

Although the District is working with San Miguel Garbage/ Rolloff, CalRecycle, and the IWMA to minimize the overall initial and ongoing requirements and cost, there will be some ongoing associated costs related to this regulation.

## **FISCAL IMPACT**

Approval will transfer \$10,000 from Solid Waste Operational reserve to the General Operating account solid waste object (60-650)

PREPARED BY:

Kelly Dodds

Director of Utilities

Attachment:

1. Resolution 2021-28

**RESOLUTION NO. 2021-28**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
SAN MIGUEL COMMUNITY SERVICES DISTRICT AUTHORIZING A \$10,000  
BUDGET ADJUSTMENT TO THE SOLID WASTE FY 2021-22 OPERATING BUDGET  
OBJECT 60-650 (SB1383 COMPLIANCE) AND AUTHORIZING A TRANSFER FROM  
OPERATIONAL RESERVE TO GENERAL OPERATING ACCOUNT IN THE SAME  
AMOUNT.**

**WHEREAS**, San Miguel Community Services District (“District”) is responsible for Solid Waste Collection and Compliance within the District Boundaries; and

**WHEREAS**, the State of California approved Senate Bill 1383 (SB1383) requiring additional monitoring, reporting, compliance, and enforcement beyond the current requirement put upon the District; and

**WHEREAS**, the costs to comply with SB1383 are unplanned and unbudgeted in the FY 2021-22 operating budget; and

**WHEREAS**, the Board desires to create a new accounting Object, SB1383 Compliance, and provide an initial budget amount of \$10,000; and

**WHEREAS**, the Board authorizes a budget adjustment to SB1383 Compliance (60-650) in an amount of \$10,000 and an equal transfer from Operational Reserve to fund this specific cost; and

**NOW, THEREFORE, BE IT RESOLVED**, the Board does, hereby, adopt this Resolution for purposes specified herein.

On the motion of Director \_\_\_\_\_, seconded by Director \_\_\_\_\_ and on the following roll call vote, to wit:

**AYES:**

**NOES:**

**ABSENT:**

**ABSTAINING:**

the foregoing Resolution is hereby passed and adopted this 26<sup>th</sup> day of August 2021.

\_\_\_\_\_  
Raynette Gregory, Board President

**ATTEST:**

**APPROVED AS TO FORM AND CONTENT:**

\_\_\_\_\_  
Rob Roberson, Interim General Manager

\_\_\_\_\_  
Douglas L. White, District General Counsel





## San Miguel Community Services District

### Board of Directors Staff Report

August 26<sup>th</sup>, 2021

AGENDA ITEM: XI-6

**SUBJECT:** Discuss and authorize the Director of Utilities to release an RFP for District Engineering services.

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**RECOMMENDATION:**

Authorize Director of Utilities release an RFP for District Engineering Services.

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During the August 19<sup>th</sup> Board meeting the Board accepted the termination of engineering Services from Monsoon Consultants. At that meeting the Board discussed the options for engineering services and directed staff to prepare an RFP for District Engineering Services.

The proposed RFP incorporates the functions that the District Engineer would be engaged in while providing service to the District. All activities cannot be foreseen but the proposed RFP provides for foreseeable activities as it would pertain to District Engineering Services.

The Board should provide any comments or changes at this meeting and authorize the Director of Utilities to release the RFP for circulation.

**FISCAL IMPACT**

If authorized there will be minimal cost in advertising for qualified persons or firms to serve as District Engineer.

PREPARED BY:

Kelly Dodds

Director of Utilities

Attachment: District Engineer RFP



# REQUEST FOR PROPOSALS

District Engineering Services

**Issue Date:**  
**August 26, 2021**

**Qualification Due Date and Time:**  
FRIDAY, September 24<sup>th</sup>, 2021 12:00 pm (Pacific time)

**Mailing Address:**  
PO BOX 180  
San Miguel CA 93451

**Delivery Address:**  
1150 Mission Street  
San Miguel CA 93451

**Contact:**  
Kelly Dodds, Director of Utilities      Kelly.dodds@sanmiguelcsd.org  
phone: 805-467-3388      fax: 805-467-9212

## **DESCRIPTION**

San Miguel Community Services District (District) is requesting proposals from qualified engineering firms who are familiar with the Paso Robles Groundwater Basin and have worked with the State Water Resources Control Board, Department of Water Resources, and the County of San Luis Obispo on Wastewater, Potable water, and Reclaimed water projects in this region. Responders should be qualified to provide the type of general engineering services common to California municipalities.

## **ABOUT THE DISTRICT**

The San Miguel Community Services District was formed in 2000 combining the San Miguel Fire District, County Service Area 1, San Miguel Sanitary District and San Miguel Lighting Districts.

The District currently provides Fire Services, Street Lighting and Landscaping, Wastewater collection and treatment, Potable water production and distribution and Solid Waste Services. The District is Governed by a Board of five Directors and has a General Manager, Director of Utilities and six admin and Utilities Personnel, a Fire Chief, Assistant Fire Chief and up to 20 paid on-call firefighters. The majority of operating funds for the District come from user fees and property tax, the FY 2021-22 operating budget is \$3,051,086 which includes approximately \$360,000 in ongoing project costs.

## **DISTRICT LOCATION**

The District covers an area of approximately 5.8 square miles and is located approximately 7 miles north of the City of Paso Robles and approximately 3 miles south of the San Luis Obispo County/ Monterey County line, on the east side of Highway 101.

## **GENERAL CONDITIONS**

- District is required as a recipient of federal funds utilizing contract engineering services to solicit and contract for those services.
- The District shall not be liable for any pre-contractual expenses incurred by any contractor, nor shall any firm include such expenses as part to the proposed cost.
- Pre-contractual expenses include any expense incurred by a proposal and negotiation of any terms with the District.
- The District reserves the right to withdraw this RFP at any time without prior notice and to reject any all proposals submitted without indicating any reasons. Any award of contract for services shall be made to the firm best qualified and responsive in the opinion of the District.
- Proposals may, at the District's option, be rejected if they contain any alterations, additions, conditional or alternatives, are incomplete, or contain erasures or irregularities of any kind.
- The District reserves the right to reject any and all proposals. The District expressly reserves the right to postpone submittal opening for its convenience and to reject any and all submittals responding to this RFP.

- Proposal will NOT be opened publicly.
- The selected firm must agree to indemnify and hold harmless the District, its officers, agents and assigns from any liability or loss resulting from suits, claims, or actions brought against the District which result directly or indirectly from the wrongful or negligent actions of the consultant in the performance of the contract.
- The selected firm will be required to comply with all existing State and Federal labor laws including the applicable to equal opportunity employment provisions.
- The District reserves the right to negotiate special requirements and proposed service levels using the selected proposal as a basis. Compensation for services will be negotiated with the selected firm.
- All responses to this RFP shall become the property of the District and will be retained or disposed of accordingly.
- No amendments, additions or alternates shall be accepted after the submission date and time.
- All documents, records, designs and specifications developed by the selected firm in the course of providing services for the District shall be the property of the District.
- Anything considered to be proprietary should be so designated by the firm.
- Acceptance by the District of any proposal submitted pursuant to this RFP shall not constitute any implied intent to enter into a contract for services.
- The District reserves the right to issue a written notice to all participating firms of any change in the proposal requirements or submission schedule should the District determine, in its sole discretion, that such changes are necessary.
- All services provided by the firm shall be in accordance with State, Federal, County, and District's standards.
- The selected firm must comply with Government Code section 8355 in matters relating to providing a drug-free workplace.
- The Cost Principles and Procedures, 48 CFR, Federal Acquisition Regulations System, Chapter 1, Part 31 *et. seq.*, are the governing factors regarding allowable elements of cost.
- The final Agreement between the District and the firm will include the administrative requirements set forth in 49 CFR Part 18, Uniform Administrative Requirement for Grants and Cooperative Agreements to State and Local Governments

## **NATURE OF SERVICES**

The District wishes to retain a qualified consulting engineer to provide the District services as District Engineer.

### District Engineer Functions

- Manages all aspects of civil engineering, plan checking, development conditioning and capital project management for the District.
- Review all matters pertaining to engineering to ensure that undertakings proposed and implemented by the District and others are done in a matter that protects the District's interests, and are in keeping with District goals, specifications and practices as well as with local, state and federal laws.

- Assist in planning, coordinating, supervising and evaluating programs, plans, services, equipment and infrastructure.
- Evaluates the District's needs and formulates short- and long-range plans to meet needs in all areas of Public Works improvements especially levee and drainage systems.
- Provides engineering services on projects and oversees project management for the construction of municipal public works projects.
- Reviews construction plans for private development for consistency with District-adopted engineering specifications, District policies and relevant laws, rules and regulations and ensures Board actions are implemented.
- Ensures that costs and fees are charged back to development projects; works with the Office Manager to monitor charges and revenues associated with development projects.
- Makes presentations to the public, the District Board, and controlling agencies (such as the SWRCB and DWR).
- Be available to meeting with public and private developers to handle matters dealing with the engineering functions of the District.
- Maintain, at the District Office, municipal engineering records and maps required to ensure accurate information is available to the District and public.
- Prepare reports, investigations, studies and evaluations as, from time to time, may be required and directed by the General Manger, Director of Utilities or his/her designee.
- Perform other engineering-related functions as directed by the General Manger, Director of Utilities or his/her designee.
- Advise the District as to engineering and construction financing available from other government agencies, and when so directed, prepare and initiate applications for funding.
- Assist clerical staff in management of records relating to engineering. Provide public information regarding municipal engineering matters.
- Preparation of capital improvements projects, improvement plans, specifications, bid documents and public improvement project management.
- Solicit proposals for capital improvement project design work.
- Review and evaluation of bid submittals.
- Provide construction observation and management during the course of District projects. Act as Resident Engineer. Assist with inspection, approval of payments, cost estimating, filing of notices and other related tasks.
- Coordinate activities with other departments and outside agencies to obtain various approvals and agreements such as environmental clearances, permits, land acquisitions and rights-of-way for assigned engineering projects.

#### Development Review Function

- Review proposed improvements and land developments and provide recommendations as to engineering matters to ensure conformance with District standards and ordinances.

- Provide a “turn around” checking time for maps and improvement plans generally not to exceed two weeks for the first plan check and the application has been determined complete.
- Notify bid applicants in writing of any final plan or final map deficiencies within (30) days of application, specifying those items needed to complete the application.
- Establish performance, labor and material bond amounts when required and ensure the posting of such bonds with the proper time sequence of such development control.
- Provide necessary and related functions as the normal practice of a District engineer in control of private development.

Federally Funded Capital Projects Engineering Services

- Design (including CEQA and NEPA compliance) bidding, construction review/inspection and federal aid administration services required to complete the federally funded projects in conformance with bid requirements and subject to State and Federal regulations and law.
- Secure all necessary permits (including CEQA and NEPA compliance) surveying, testing, preparation of plans and specifications, description of construction phasing plan, estimate of probable construction costs, preparation of bid documents, review of construction contract bids, recommendation for award, construction inspection and review and construction administration.
- .

**PROPOSAL REQUIREMENTS AND CONTENTS**

Proposals submitted for this project are to follow the outline described below and must address all requested information. Any additional information that the firm wishes to include that is not specifically requested should be included in an appendix to the proposal. Firms are encouraged to keep the proposals brief and to the point, but sufficiently detailed to allow evaluation of the project approach. **SEVEN (7)** copies of the proposal must be submitted.

**Section 1                      Overview of Firm**

Provide a narrative description of your firm and your firm’s experience with the following.

- As it relates to public entities: General engineering, plan development, project implementation and management, CIP development and implementation, Master planning, groundwater survey and management, Hydrology within a groundwater basin
- Grant identification, application, and management.
- The firm’s familiarity with the Paso Robles Groundwater Basin, Groundwater Sustainability Plan(s) (GSP), and Groundwater Sustainability Agencies (GSA)
- Wastewater, Water and Reclaimed water: project coordination, development, and management with State and Regional Water Control Boards, Department of Water Resources, Air Pollution Control District, Army Corps of Engineers and County of San Luis Obispo

- Funding agencies such as United States Department of Agriculture (USDA), Department of Funding Assistance (DFA), Integrated Regional Water Management (IRWM) Community Development Block Grants (CDBG), Housing and Urban Development (HUD)
- Also identify any unique approaches or strengths that your firm may have related to the provision of District Engineer services.

District staff will assess your understanding of all aspects of the project based on the overview.

## **Section 2                      District Engineer and Team**

A District engineer shall be identified and associated responsible personnel should also be identified. A project team organization diagram and a brief resume of each team member shall be included. The geographic location of the firm and key personnel shall also be identified. Any proposed sub-consultants shall be listed. Include sub-consultants assigned task(s) and experience. Full resumes may be included in an appendix.

Include client names, addresses and telephone numbers for the District to check these references. Identify project team members that worked on the various projects and their role and responsibility. Only include those projects where there is significant involvement from individuals who are part of the proposed team.

## **Section 3                      Conflicts of Interest**

Firms submitting a proposal in response to this RFP must disclose any actual, apparent, direct or indirect, or potential conflicts of interest that may exist with respect to the firm, management, or employees of the firm or other persons relative to the services to be provided under the Agreement for engineering services to be awarded pursuant to this RFP. If a firm has no conflicts of interest, a statement to that effect shall be included in the Proposal.

## **Section 4                      Proprietary Information**

Firms submitting a Proposal in response to this RFP must provide a statement that nothing contained in the submitted proposal will be proprietary. All proposals shall become property of the District once submitted.

## **Section 5                      Insurance and Other Requirements**

The District will require the individual or engineering firm selected to maintain general liability, automobile, workers' compensations, and errors and omissions insurance. The contract will contain provisions requiring the selected firm to indemnify the District and provide that the District Engineer is an independent contractor serving at the will of the District. Other required provisions will include the District's right to terminate the agreement, at its sole discretion, upon the provision of notice.

## **Section 6                      Compensation**

The proposal shall incorporate by reference a detailed compensation proposal for services, which is to be provided in a separate, sealed envelope. Describe how the firm intends to provide

engineering services on either an hourly or flat rate and any proposal related to a retainer agreement. Define what type(s) of work considered to be extra or specialized work that would be billed in addition to basic services. State the hourly rates for the designated District engineer and associates for general work and specialized services. Define the type and unit rates for reimbursement for expenses such as mileage, reproduction of documents, faxed documents and word processing charges. The firm shall indicate the minimum increment of time billed for each service including phone calls, correspondence and personal conferences.

**Section 7                      Signature and Acceptance of Conditions**

The proposal shall be signed by an official authorized to bind the consulting firm and shall expressly state the proposal is valid for 90 days. Additionally, this section will be a statement offering the firm’s acceptance of all conditions listed in the Request for Proposal document. Any exceptions or suggested changes to the RFP of any contractual obligations, including the suggest change, the reasons therefore and the impact it may have on cost or other considerations on the firm’s behalf must be stated in the proposal. Unless specifically noted by the firm, the District will assume that the proposal is in compliance with all aspects of the RFP.

**PROPOSAL SUBMISSION DEADLINES**

August 26 <sup>th</sup> 2021	Board reviews draft RFP and authorizes issuance of RFP
September 24 <sup>th</sup> , 2021	Due date for Proposals (allows 4 weeks for interested firms to respond)
October 28 <sup>th</sup> , 2021	Evaluation and possible award of contract by the Board and staff at the District’s October Board meeting (the Board may wish to schedule a special meeting to interview several of the top firms, which would delay award of contract)
November 1 <sup>st</sup> 2021	Notification of selected firm (if award of contract is decided by the Board at the October 28, 2021 board meeting)

**SEVEN (7) COPIES OF THE PROPOSAL MUST BE SUBMITTED TO THE DISTRICT OFFICE AT THE ADDRESS BELOW BY: 12:00 p.m. on Thursday, September 24<sup>th</sup> 2021**

**SUBMIT PROPOSALS TO:**

**San Miguel Community Services District  
Attn: Kelly Dodds, Director of Utilities  
PO Box 180/ 1150 Mission Street  
San Miguel, CA 93451**

Inquiries concerning this RFP should be addressed to: Kelly Dodds, Director of Utilities at (805) 467-3388 or [kelly.dodds@sanmiguelcsd.org](mailto:kelly.dodds@sanmiguelcsd.org)



## **PROPOSAL TERMS AND CONDITIONS**

The District will not pay any costs incurred by the firm in preparing or submitting the proposal. The District reserves the right to modify or cancel, in part or in its entirety, this RFP. The District reserves the right to reject any or all proposals, to waive defects, irregularities, or informalities, and to offer to contract with any firm in response to any RFP. This RFP does not constitute any form of offer to contract.

During the evaluation process, the District reserves the right, where it may serve the District's best interest, to request additional information or clarification from proposers, or to allow corrections of errors or omissions. At the discretion of the District, firms submitting proposals may be requested to make oral presentations as part of the evaluation process.

The District reserves the right to retain all proposals submitted and to use any idea(s) in a proposal regardless of whether that proposal is selected. Submission of a proposal indicates acceptance by the firm of the condition contained in the request for proposals, unless clearly and specifically noted in the proposal submitted and confirmed in the contract between the District and the firm selected.

## **RIGHT OF REFUSAL**

The District reserves the right to reject any and all proposals without cause. Proposals will be evaluated in their entirety. The District reserves the right to negotiate specific requirements and costs using the selected proposal as a basis.

## **SELECTION PROCEDURES**

Written proposals submitted by the deadline will be evaluated based upon qualifications, experience, ability to perform, and understanding of specific services to be provided in accordance with Government Code sections 50950 and 50951, as well as 40 U.S.C. §§ 1101 *et seq.* Cost of services shall be provided in a separate, sealed envelope. The full board and District staff will receive copies of proposals.

In reviewing the proposals for ranking, the District will carefully weigh the following:

- The firm's approach to and understanding of the Scope of Work;
- The firm's experience with similar contracts and clients;
- The experience and qualifications of the proposed staff in providing similar services;
- The firm's demonstrated ability to deliver work on time and within budget;
- The extent of involvement by key personnel;
- The extent to which previous clients have found the firm's services acceptable;
- Previous District experience with the proposing firm, if any;
- Communication skills;
- Other qualifications/criteria as deemed appropriate.

The firms will be ranked and the firms notified. Cost of services shall be considered pursuant to 40 U.S.C. §§ 1101 *et seq.* The RFPs will be presented to the District Board of Directors for consideration at its October 28<sup>th</sup> 2021 meeting. If the Board desires, it is anticipated that

consulting firm staff, as proposed by the selected firms, after notification by the District, will make themselves available for questions at the October 28<sup>th</sup> 2021 District Board Meeting (or at a special meeting to be set by the Board at the October 28<sup>th</sup> 2021 meeting).

**EXHIBIT "A"**

**ACKNOWLEDGMENT FORM**

RFP for Services as District Engineer

**PART A**

The proposing Firm warrants the following:

1. That it will not delegate or subcontract its responsibilities under contract without the express, prior written permission from San Miguel Community Services District
2. That all information provided in connection with this Proposal is true and correct.
3. That it will acknowledge and agree with all terms and conditions stated in this Request for Proposal.

Firm Name (Respondent to RFP):

Address: City: State: Zip:

Contact Name: Title:

Telephone No: Email:

Signature

**PART B**

The above listed Firm is responding to a Request for Proposals for a qualified and experienced Firm to provide special legal counsel.

**THIS COMPLETED FORM MUST BE RETURNED TO SAN MIGUEL COMMUNITY SERVICES DISTRICT BY THE RESPONDENT WITH THEIR PROPOSAL.**

**RETURN PROPOSAL PRIOR TO 12:00 P.M. September 24, 2021**

**San Miguel Community Services District  
Po Box 180 / 1150 Mission Street  
San Miguel, CA 93451  
Attn: Kelly Dodds, Director of Utilities**



## San Miguel Community Services District

### Board of Directors Staff Report

August 26<sup>th</sup>, 2021

**AGENDA ITEM: XI-7**

**SUBJECT:** Discuss and authorize the Director of Utilities to purchase and install an air conditioner for the server room/ office at the Machado WWTF, with budgeted funds, in an amount of \$5452.00

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**RECOMMENDATION:** Authorize the Director of Utilities to purchase an air conditioner with budgeted funds.

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The District maintains servers at the Machado WWTF. Due to the location, they are subject to excess heat from the building and dust from needing to keep a door open to relieve the heat. This causes the room and servers to accumulate dust throughout the day.

In order to protect the servers and increase their operational life and efficiency, an air conditioner needs to be installed to cool the room and allow the doors to be kept closed.

Three proposals for air conditioners were received ranging from \$4,200 to \$6,220. In addition to the unit, power will need to be brought over from the breaker at a cost not to exceed \$1,252.

The total cost of \$5,452 will be paid from WWTF maintenance (40-582) adequate funds are currently budgeted.

#### **FISCAL IMPACT**

If approved a total expenditure of \$5,452 will be expended from WWTF Maintenance (40-582). No budget adjustment is requested.

PREPARED BY:

*Kelly Dodds*

Kelly Dodds, Director of Utilities



**San Miguel Community Services District  
Board of Directors  
Staff Report**

August 26, 2021

**AGENDA ITEM: XI-8**

**SUBJECT: Fire Department Temporary Housing Unit Continuation.**

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**RECOMMENDATION: Continue with the process required to provide a Temporary Fire Department Staffing Housing Unit including space for a Sheriff's Beat Station.**

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**Background:**

The San Miguel Fire Department currently shares space with the CSD Staff and is beyond workspace capacity. Additionally, the Fire Department currently lacks the ability to provide accommodations for Department Members to provide 24-hour District coverage when required. The project shall include a "Sheriff's Beat Station" within the temporary housing unit.

**Follow-up:**

Geological report received from Beacon Geotechnical on June 18, 2021. Findings state that the soil is suitable for the proposed use. Staff is preparing bidding documentation. No additional information is available for presentation currently.

**STAFF RECOMMENDATION.**

Continue with the bidding process for the procurement and installation of a double wide mobile home, including the required permit documents.

**FISCAL IMPACT:**

Beacon Geotechnical services \$2,200.00.

**PREPARED BY: Scott Young**

**APPROVED BY: Rob Roberson**



## San Miguel Community Services District

### Board of Directors Staff Report

August 26<sup>th</sup> 2021

**AGENDA ITEM: XI-9**

**SUBJECT:** Continued Discussion on the status of the Machado Wastewater Treatment Facility expansion and the aerator upgrade project.

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**RECOMMENDATION:** Discuss status of the Machado Wastewater Treatment Facility expansion and the aerator upgrade project.

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#### **CURRENT STATUS:**

##### *WWTF*

The existing plant upgrade was completed in 2001, at that time it was upgraded to a maximum capacity of 200,000 gallons per day.

**COMPLIANCE** – Based on the 1<sup>st</sup> quarter 2021 testing the plant is out of compliance for a single sample and is out of compliance for the 6-sample average in regard to TDS, Sodium and Chloride

**FLOW** – In *July* the plant averaged 142,364 gallons per day (71% of hydraulic design capacity) with a max day of 165,708 gallons (83% of hydraulic design capacity)

On 6/18/18 the District received a letter from SWRCB outlining the status of the plant and setting a timeline of approximately 2.9 years before the plant reaches capacity. This is the window to complete the expansion to prevent potential overflows and potential violations.

Monsoon Consultants is currently working on design requirements and options to meet current/future and proposed regulatory requirements.

- August 2018 WWTP Expansion engineering report.
- November 2018 DE presented options to the Board and discussed the engineering study and alternatives.
- December 2018 DOU and Engineer from Monsoon Consultants toured SBR and MBR plants and talked to operators about process benefits and issues.
- January 2019 the DE delivered the Final engineering report to the Board at the regular Board Meeting and the Board subsequently approved the report.

- January 2019 the District submitted the Final Engineering Report to the CCWQCB for their review and comment.
- February 2019 DE and Director of Utilities met with CCWQCB staff to discuss the engineering report and future project phases, requirements, funding, permitting, and schedules.
- February 2019 the District submitted the Final Engineering Report to PG&E for their review in advance of a meeting to discuss future WWTF electrical service requirements and the potential for technical/financial assistance for the WWTF expansion/renovation.
  - The District also applied for a service change to PG&E to begin the process of determining the extent of improvements needed to service the new power requirements.
- February 2019 the District applied to SoCal Gas for service and is in the process of determining costs to bring gas to the plant.
- August 2019 DE and DOU toured manufacturing plant and installations MBR package plants
- October 2019 the Board approved a contract with Monsoon Consultants to prepare the construction plans for the WWTF expansion
- November 2019 District received an agreement for a \$250,000 planning grant for the WWTF expansion.
- March 2020 RFP was released for an environmental consultant for the WWTF
- April 2020 Submitted Preliminary Engineering Report to USDA for review for Grant/ Loan funding. Comments were received back from the USDA which are being addressed by the DE
- April 23, 2020, the Board approved DUDEK proposal to perform environmental consultation for the District in relation to the WWTF and Recycled Water distribution system (purple pipe)
- May 2020 the District received the signed agreement back for the planning grant and submitted the initial invoice for reimbursement.
- June 2020 DE completed an analysis of the flooding risk to the WWTF site from Salinas River flood flows. The results of the study will be incorporated into the final design.
- June 2020 the DE completed the revisions of the USDA Preliminary Engineering Report (PER) and will resubmit to the USDA for funding consideration.
- On September 25, 2020, The Central Coast Regional Water Quality Control Board approved and adopted General Waste Discharge Requirements (Order No. R3-2020-0020) for Discharges from Domestic Wastewater Systems with Flows >100,000 GPD. The District WWTP, including the planned expansion/renovation, will be subject to the requirements in this order.
- November 2020 the DE submitted the FINAL USDA Preliminary Engineering Report (PER) to the USDA and Waterboard for review.
- January 2021 the DE submitted an application to the California Department of Water Resources for the amount of \$5,000,000 to obtain a grant under the 2019 Sustainable Groundwater Management (SGM) Grant Program Implementation – Round 1 for the upgrade and expansion of the District’s Machado Wastewater Treatment Facility (WWTF) and the construction of a new recycled water (“purple pipe”) distribution system (or a component thereof).
- February 2021 Dudek submitted the initial DRAFT of the CEQA / NEPA Initial Study and Mitigated Negative Declaration to the District for review and comment.

- April 22, 2021 the Board of Directors authorized the District to advertise a Request for Proposals (RFP) from qualified vendors to provide, install, test & adjust, start-up, and provide operator training of a pre-engineered package membrane bioreactor (MBR) municipal wastewater treatment system which will be a critical component of the upgrade and expansion of the DISTRICT's Machado Wastewater Treatment Facility (WWTF).
- May 6, 2021 the District submitted a revised version of the Preliminary Engineering Report (PER) to the USDA for their review.
- May 17, 2021 Dudek submitted the Phase 1 Archeological Survey Report to the District for staff review and comment.
- May 19, 2021 a Pre-Proposal meeting was held to inform qualified vendors about the District's requirements for the pre-engineered package membrane bioreactor (MBR) municipal wastewater treatment system and solicit input and answer questions.
- On June 11, 2021 the DISTRICT received one (1) cost proposal in response to the MBR RFP. The cost proposal was received from Cloacina, LLC, which is based in Arroyo Grande, CA. The DE and Director of Utilities are in the process of reviewing the proposal and pending completion of that process, will present our findings and recommendations to the Board.
- On July 7, 2021 Dudek delivered a preliminary and incomplete DRAFT CEQA/NEPA Environmental Document. The DE and Director of Utilities have reviewed the subject document and responded to Dudek with comments and revision requirements.
- On July 16, the DOU and DE participated in a TEAMS meeting with USDA and Waterboard staff to discuss the regulatory / permit requirements for the WWTF upgrade. The Preliminary Engineering Report (PER) will be revised to incorporate the issues that were discussed.
- July 30, 2021 Dudek delivered an ADMINISTRATIVE DRAFT CEQA/NEPA Environmental Document. District staff have reviewed the subject document and responded to Dudek with comments and revision requirements.
- On August 11, 2021, The DE submitted a revised DRAFT PER to the Director of Utilities for review. The revision addresses issues that were identified in discussions with the USDA and RWQCB.
- August 16, 2021: The DE and Director of Utilities participated in a TEAMS meeting with SLO County Planning, Building and Public Works Departments staff to discuss WWTF project status and the anticipated requirements from the SLO County with regard to a new Conditional Use Permit (CUP).

### *AERATOR PROJECT*

5/17/18 WSC issued the Final Technical Memorandum outlining some of the options for the replacement of the existing surface aerators with bubbler aeration in the ponds. Part of the recommendation is to install a headworks to prevent fouling the diffusers.

The Energy Watch and PG&E are working on preliminary paperwork for On-Bill Financing for this project once it is ready.

The aeration project is being modified as part of the overall expansion of the WWTF. It is possible that the original project will be scrapped in favor of other assistance available from PG&E.

### *FUNDS EXPENDED*



## Total Costs incurred to date

- Property acquisition - \$240,140 (Paid with Capital Funds not covered under any grant FY2016-17)
- Planning - \$177,740 (Reimbursed through the IRWM DAC Grant)
- Engineering / Environmental - \$163,796 (Reimbursable through the DWR CWSRF Grant)

## *GRANT FUNDING*

### Awarded

- Integrated Regional Water Management (IRWM) Prop 1 DAC -- \$177,750 for Wastewater plant upgrade analysis, basin recharge study.
- State Revolving Fund (CWSRF) -- \$250,000 for project design, engineering, and environmental studies – The District received the agreement for this grant in November 2019. The grant is retroactive to 2017. As of June 30, 2021, a total of \$163,796 has been expended.

### Applied for/ to

- The District submitted applications to SLO County for the 2020 and 2021 funding cycles for CDBG funds to help pay for construction. No CDBG funds were awarded to the District in either cycle.
- Preparing to apply to DWR and USDA
- Held pre-application meeting with USDA to start application process 1/10/2020
- Met with Cayucos Sanitary District to discuss how they are financing their Wastewater treatment plant currently under construction
- Discussed additional funding with the Department of Financial Assistance at the state about construction financing.
- Submitted a Pre-Application to DWR for \$14.5M in funding through the Small Community Funding Program on May 5, 2020.
- Submitted an application to the California Department of Water Resources for the amount of \$5,000,000 to obtain a grant under the 2019 Sustainable Groundwater Management (SGM) Grant Program Implementation – Round 1 for the upgrade and expansion of the District’s Machado Wastewater Treatment Facility (WWTF) and the construction of a new recycled water (“purple pipe”) distribution system (or a component thereof) in January 2021.

## **NEXT STEPS:**

### *WWTF*

Based on discussions with the DE, we have nearing completion of the design development phase for the recommended WWTP upgrade and expansion design alternative. We have scheduled completion of the final design and the preparation of the Construction / Bidding Documents by the end of 2021. On April 23, 2020, the Board awarded a contract to Dudek for Environmental Studies as required for CEQA/ NEPA Compliance for the recommended WWTP upgrade and expansion design alternative. The timing of the environmental compliance & permitting work will coincide with the completion of the final design phase. Under our currently planned schedule, the District should plan on initiating the process of obtaining financing for the WWTP upgrade and expansion

project during the third quarter of 2021, with the goal of having financing in place to advertise and award a construction project in 4<sup>th</sup> Quarter 2021.

Although the District staff are aggressively researching and applying for grant funding opportunities, it is likely that, in order to meet our deadline, the District may need to pay out of pocket for some of the construction design work.

*AERATOR PROJECT*

Once design criteria are determined for the WWTF and it is determined that the aeration upgrade will be maintained with the plant expansion then staff will bring additional items to the board to facilitate the approval and construction of the aeration upgrade.

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**COUNT DOWN CLOCK**

**Notice issued – June 2018    Deadline given – March 2021 (2.9 years)**

**Time remaining— -5 months (We have met with the Waterboard to discuss the project progress and schedule.)**

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**FISCAL IMPACT**

No impact resulting from this information.

**RECOMMENDATION**

This item is for information and discussion only.

**Due to the limited time frame, this item will be updated monthly, and the Board will likely have additional items for approval in conjunction with this report.**

PREPARED BY:

*Kelly Dodds*

Kelly Dodds, Director of Utilities

*Blaine Reely*

Blaine Reely, Monsoon Consultants