

***Agenda***

Thursday, October 20, 2022  
Board of Commissioners Meeting  
**TELECONFERENCE**  
**5:00 pm**

NOTE: Consistent with provisions of the California Government Code as established by Assembly Bill AB361, this Board meeting will be held via Zoom® conferencing.

**HOW TO PARTICIPATE REMOTELY**

Click or enter the following website address:

<https://us02web.zoom.us/j/88053147104?pwd=SHdjejBLcER2R0NFV3FVbmRJMlhudz09>

Or call the following telephone number: 1 669 900 6833 and enter the following meeting ID: 880 5314 7104.  
Passcode: 441937

Public comments for this meeting can be submitted via email to: [SASM@cityofmillvalley.org](mailto:SASM@cityofmillvalley.org). The public comment period opens when the agenda is posted online and will close two hours prior to the start of the meeting. Include your name and the item you would like to provide written comment on. Written comments submitted will be read into the record during the Public Comment period of the Board meeting. To provide comments during the meeting: • If in the Zoom teleconference, use the “raise hand” feature. The Host will notify and unmute you when it is your turn to speak. • If on a phone, press \*9 (“star + 9”), and the Host will notify and unmute you when it is your turn to speak. If you experience an issue providing comments in the meeting, please email those comments to [SASM@cityofmillvalley.org](mailto:SASM@cityofmillvalley.org)

*The Sewerage Agency of Southern Marin (SASM) does not discriminate against any individual with a disability. Upon request, SASM publications will be available in the appropriate format to persons with a disability. If you require assistance or accommodation to participate, please contact V. Tyler at (415)388-2402 at least 24 hours prior to the meeting. SASM will use its best efforts to make reasonable accommodations to provide as much accessibility as possible, while still maintaining public safety.*

**CALL TO ORDER AND ROLL CALL**

**APPROVAL OF AGENDA**

**PUBLIC OPEN TIME**

*The Public is invited to address the Board on items that do not appear on the agenda and that are within the subject matter jurisdiction of the Board. State law prohibits Board action on any item not listed on the agenda. Please avoid repetition and please limit your comments to three minutes.*

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**CONSENT CALENDAR**

*The following items listed on the Consent Calendar are considered routine and are approved by a single motion without discussion. The Board President or any Board Commissioner or the public may request that any item listed under the Consent Calendar be removed and action taken separately. In the event an item is removed from the Consent Calendar, it shall be considered in its numerical order.*

1. Teleconferencing Meeting Resolution to comply with Assembly Bill 361.  
Recommended Action: Adopt Resolution NO. 2022-7.
2. Consideration of the Minutes of the September 15, meeting.  
Recommended Action: Approve the minutes.

**NEW BUSINESS**

3. Monthly Manager's Report.  
Recommended Action: Receive report.

**COMMISSIONERS OPEN TIME**

*Informational only. No actions to be taken*

**ADJOURNMENT**

***The next scheduled Board meeting is on  
November 17, 2022 @ 5:00 pm (to be confirmed) Location (TBD)***

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Materials related to an item on this agenda submitted to the Sewerage Agency of Southern Marin after distribution of the agenda packet are available for public inspection at 450 Sycamore Avenue, during normal business hours. Such documents are also available on the SASM's website at: [www.cityofmillvalley.org/Index.aspx?page=461](http://www.cityofmillvalley.org/Index.aspx?page=461) subject to staff's ability to post the documents prior to the meeting.

S/ADMIN/SASM/SASM BRD

**STAFF REPORT**

**TO:** Sewerage Agency of Southern Marin Board of Commissioners  
**FROM:** Mark Grushayev, Wastewater Treatment Plant Director  
**SUBJECT:** Teleconferencing Meeting Resolution 2022-7 to comply with Assembly Bill 361  
**DATE:** October 20, 2022

**ISSUE:** Compliance with California Assembly Bill 361.

**RECOMMENDATION:** Adopt Resolution 2022-7

**BACKGROUND:**

On March 17, 2020, Governor Newsom issued Executive Order N-29-20 suspending certain provisions of the Brown Act to allow local legislative bodies to conduct meetings telephonically or by other means to slow the spread of COVID-19, in response to the COVID-19 pandemic. On June 11, 2021, Governor Newsom issued Executive Order N-08-21, which ended the provisions of Executive Order N-29-20 that authorized local legislative bodies to conduct meetings by telecommunicating, effective September 30, 2021.

On September 16, 2021, Governor Newsom signed Assembly Bill 361 (“AB 361”), which allows for local legislative bodies to continue conducting meetings remotely under specified conditions and includes a requirement that the governing body make specified findings. AB 361 became effective upon the expiration of Executive Order N-29-20 on October 1, 2021. AB 361 allows a local agency legislative body to hold a meeting utilizing teleconferencing without complying with the standard teleconferencing requirements if the Governor has proclaimed a State of Emergency and if state or local officials have imposed or recommended measures to promote social distancing. These conditions continue to exist as Governor Newsom’s March 4, 2020, Proclamation of Emergency related to the COVID-19 pandemic is still in effect. In addition, the Marin County Public Health Officer continues to recommend CDC guidelines on social distancing to protect the public’s health and safety.

**DISCUSSION:**

The attached Resolution makes the findings to validate the current conditions to allow teleconference meetings pursuant to AB 361 for the Board of Commissioners. The Resolution authorizes teleconference meetings including hybrid meetings held both via teleconference and in-person. This Resolution will allow members of the public to safely observe and participate in local government teleconference meetings during the continued pandemic.

**Sewerage Agency of Southern Marin  
Board of Commissioners  
Resolution 2022-7  
October 20, 2022**

31 If a meeting is held via teleconference, including a hybrid meeting, the following requirements  
32 apply under AB 361:

- 33
- 34 1. Notices and agenda requirements remain the same under the Brown Act.  
35
  - 36 2. No physical location is required for public attendance or public comment. However, the public  
37 must be able to access and participate in the meeting through a call-in or an internet-based service,  
38 and instructions for how to participate must appear in the posted notices or agenda.  
39
  - 40 3. Teleconference meetings must protect the statutory and constitutional rights of the parties and  
41 the public.  
42
  - 43 4. If there is any disruption of the call-in or internet-based service, the agency must suspend the  
44 meeting until the problem is corrected.  
45
  - 46 5. Legislative bodies may allow public comments to be submitted prior to a meeting but must also  
47 allow the public to participate in real time through call-in or internet-based service.  
48
  - 49 6. If an internet-based service requires registration through a third-party, individuals can be  
50 required to register with the third-party to participate in the meeting; and  
51
  - 52 7. When providing a public comment period, whether after each item or during a general comment  
53 period, a legislative body must allow reasonable time for members of the public to comment and  
54 must also include reasonable time for members to register with a third-party host if applicable.  
55

56 To continue holding remote meetings, the Board of Commissioners must continue to declare every  
57 30 days that either the state of emergency continues to directly impact the ability of the members  
58 to meet safely in person, or State or local officials continue to enact or recommend measures  
59 endorsing social distancing.  
60

61 Attachments:

- 62 1. Resolution 2022-7 Draft

**RESOLUTION NO. 2022-7**

**A RESOLUTION OF THE BOARD OF COMMISSIONERS  
OF THE SEWERAGE AGENCY OF SOUTHERN MARIN  
FINDINGS THAT THE PROCLAIMED STATE OF EMERGENCY  
CONTINUES TO IMPACT THE ABILITY TO MEET SAFELY IN PERSON  
AND DECLARING THAT THE BOARD OF COMMISSIONERS  
WILL CONTINUE TO MEET REMOTELY IN ORDER  
TO ENSURE THE HEALTH AND SAFETY OF THE PUBLIC**

**WHEREAS**, the Sewerage Agency of Southern Marin (SASM) is committed to preserving and nurturing public access and participation in meetings of the Board of Commissioners and

**WHEREAS**, all meetings of the SASM's legislative bodies are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch the SASM's legislative body conduct their business; and

**WHEREAS**, the Brown Act, Government Code section 54953(e), makes provisions for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

**WHEREAS**, on March 4, 2020, Governor Newsom declared a State of Emergency to make additional resources available, formalize emergency actions already underway across multiple state agencies and departments, and help the State prepare for a broader spread of COVID-19; and

**WHEREAS**, on March 17, 2020, in response to the COVID-19 pandemic, Governor Newsom issued Executive Order N-29-20, which suspended certain provisions of the Ralph M. Brown Act to allow local legislative bodies to conduct meetings electronically without a physical meeting place; and

**WHEREAS**, because of Executive Order N-29-20, staff set up Zoom teleconference meetings for all SASM Board of Commissioners meetings; and

**WHEREAS**, on June 11, 2021, Governor Newsom issued Executive Order N-08-21, which specified that Executive Order N-29-20 would remain in effect through September 30, 2021, at which point it would expire; and

**WHEREAS**, since the issuance of Executive Order N-08-21, the Delta variant has emerged, causing a spike in COVID-19 cases throughout the state; and

**WHEREAS**, the Governor's proclaimed State of Emergency remains in effect, and State and local officials, including the Marin County Director of Health and Human Services, the California Department of Public Health, and the Department of Industrial Relations, have imposed or recommended measures to promote social distancing; and

**WHEREAS**, on September 16, 2021, the Governor signed Assembly Bill 361 into law, as urgency legislation that goes into effect on October 1, 2021, amending Government Code Section 54953 of the Brown Act to allow legislative bodies to continue to meet remotely during a proclaimed state of emergency, provided certain conditions are met and certain findings are made; and

**WHEREAS**, the continued local rates of transmission of the virus and variants causing COVID-19 are such that the Director of Health & Human Services has recommended that the County continue to emphasize social distancing to minimize the potential spread of COVID-19 during indoor, public meetings.

**WHEREAS**, SASM cannot maintain adequate safe social distance between members of the public, Board members and staff in their respective meeting locations; and

**WHEREAS**, because of the rise in cases due to the new BA variant, SASM is concerned about the health and safety of attendees, the SASM's Board of Commissioners desires to take the actions necessary to comply with AB 361 and to continue to hold its Board and committee meetings remotely.

**NOW, THEREFORE, THE SASM BOARD OF COMMISSIONERS RESOLVES AS FOLLOWS:**

1. The Board has reconsidered the circumstances of the State of Emergency, and finds that:
  - a. The factors triggering the State of Emergency continue to directly impact the ability of the members of the Board of Commissioners and SASM staff, and members of the public to meet safely in person; and
  - b. State and local officials continue to recommend measures to promote social distancing.
  
2. The Board of Commissioners meetings will continue to be conducted remotely for the next 30 days in compliance with AB 361 and Government Code Section 54953(e)(2), to ensure the health and safety of the public while providing access to public meetings.

3. The Board of Commissioners will reconsider the circumstances of the State of Emergency and revisit the need to conduct meetings remotely within 30 days of the adoption of this Resolution.

REGULARLY PASSED AND ADOPTED this 20 day of October 2022.

AYES:

NOES:

ABSENT:

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Lew Kious, Board President

ATTEST:

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Todd Gates, Secretary

# SEWERAGE AGENCY OF SOUTHERN MARIN

## *Minutes*

BOARD OF COMMISSIONERS

September 15, 2022

*Teleconference*

### **Call to order and roll call**

President Lew called the meeting to order at 5:30 pm  
Commissioners present: Al Leibof, Peter McIntosh, Jeff Brown  
Commissioners absent: Jim Jacobs, Todd Gates, Stephen Burke  
Staff present: WWTP Director Mark Grushayev, Public Works Director Andrew Poster  
Members of the Public: Bonner Beuhler

### **Approval of Agenda**

*Action: President Kiouss carried on a vote of 4 to 0 to approve the Agenda.*

### **Public Open Time**

There were no comments from the public.

### **Consent Calendar**

1. Teleconferencing Meeting Resolution to comply with Assembly Bill 361.  
*Recommended Action: Adopt Resolution NO. 2022-6.*
2. Consideration of the Minutes of the July 22, 2022, meeting.  
*Recommended Action: Approve the minutes.*

Action: M/S Leibof/ Brown and carried on a vote of 4 to 0 to adopt Resolution 2022-6 and approve the minutes of the July 22, 2022, meeting.

### **New Business**

1. Monthly Manager's Report.  
*Recommended Action: Receive report.*

Mr. Grushayev said that SASM is still incurring ammonia violations but next week there will be a new filter online and that it will take approximately 4 weeks to get it functioning as designed. He hopes that after that SASM will stop the violations. He added that there was a Water Board inspection on June 28 and received the report in August. There was a requirement to report when the filter is done and work on digitizing the operation and maintenance library. Copy of the inspection report is provided with the Manager's Report. Mr. Grushayev used the analogy for doing repair work at SASM treatment plant while continue treating wastewater as of changing tires on a rolling car. He said the plant is staying the course.

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Minutes of the SASM Board Meeting  
September 15, 2022**

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President Kious said he wanted to know how things worked at SASM, so he visited the plant, climbed the trickling filters and other structures, and said it's all very interesting and urged the other Board members to visit.

**Public Comments**

There were no comments from the public.

**Commissioners Open Time**

Commissioner Leibof asked Mr. Poster when the E. Blithedale work will be done and Mr. Poster said next week. President Kious said he would like to see Todd, the new City Manager come to the next meeting to introduce himself and Mr. Grushayev confirmed that will happen on the next meeting.

**Adjourn**

*Action: M/S Leibof/Mcintosh and carried on a vote of 4 to 0 that the meeting be adjourned at 5:40 pm.*

*The next scheduled meeting of the SASM Board is October 20, 2022, at 5:00 pm (to be confirmed).*

**STAFF REPORT**

**TO:** Sewerage Agency of Southern Marin Board Commissioners

**FROM:** Mark Grushayev, Wastewater Treatment Plant Director

**SUBJECT:** Monthly Report

**DATE:** October 20, 2022

**ISSUE:** Summary of operation and maintenance activities for September 2022.

**RECOMMENDATION:** Receive report.

**Compliance**

- There was an average monthly ammonia exceedance greater than 12.3 mg/L for the effluent discharge during the August 2022 monitoring period. Based on the analytical report from the contract laboratory, the calculated average monthly ammonia was 28 mg/L. Accelerated monitoring was initiated on August 2 due to unreliable performance of the trickling filter and the remaining trickling filter no. 2 taken out of service for the new media replacement.
- There was a maximum daily ammonia exceedance greater than 32 mg/L for the effluent discharge during this monitoring period. Based on the analytical report from the contract laboratory, the maximum daily ammonia was 33 mg/L on August 02, 2022.
- In accordance with the reporting requirements stipulated in the NPDES permit, staff reviewed, certified, and submitted the Self-Monitoring Reports (SMRs) for August 2022 on September 30.

To view the Monthly and Annual Self-Monitoring Reports online, go to:

<http://ciwqs.waterboards.ca.gov/ciwqs/readOnly/PublicReportEsmrAtGlanceServlet?inComm and=reset>

- Enter an Agency Name: Sewerage Agency of Southern Marin
- Select a reporting year: 2022
- Select Run Report

**Regulatory or Public Issues:**

- Sanitary Sewer Overflows: None
- BAAQMD violations: None
- Unauthorized discharge: None

**Laboratory**

- As a service for the City of Mill Valley Recreation Department, SASM laboratory analyzed the water quality of the pool & spa monthly samples collected on September 26. Samples

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- 31 were analyzed for total coliforms, *P. aeruginosa*, and heterotrophic bacteria. The analytical  
32 report was provided to the City on September 29.
- 33 • As a monthly plant process check, sludge profile samples were collected on September 28.  
34 The samples included digester #1, gravity thickener, filtrate, and cake. All samples were  
35 analyzed for total solids and volatile solids, while the digester samples were further analyzed  
36 for pH, alkalinity, volatile acids, and percent of carbon dioxide gas (at the digester gas  
37 discharge locations).
  - 38 • Due to accelerated monitoring, a total of seventeen composite effluent samples were analyzed  
39 during the month of August 2022 and September 2022. Between three to four samples per  
40 week were collected and analyzed.
  - 41 • As part of the accreditation process for the ELAP certificate in 2023, an assessment has been  
42 scheduled by an ELAP-approved third party assessor on December 13 and 14, 2022.
  - 43 • Due to recent personnel changes, staff is conducting recruitment for the new laboratory  
44 director and laboratory analyst.
- 45

46 **Operation and Maintenance**

47 In September 2022, operations and maintenance personnel completed 129 preventive and 22  
48 corrective work orders. Below is a summary of activities during the reporting period:

49 **Odor Control** – The bio-scrubber continues to work well resulting in 0.00 ppm of H<sub>2</sub>S released  
50 to the atmosphere. Carbon media in the carbon scrubber for Sludge Thickener process continues  
51 to perform well.

52 **Headworks** – Flows into the plant continue to be lower than normal for this time of year, averaging  
53 about 1.6 MGD and totaling 47.9 million gallons.

54 **Primary Treatment** – All four primary clarifiers remain online through the Trickling Filter media  
55 replacement project. The Chemically Enhanced Primary Treatment (CEPT) system, which  
56 includes Ferric Chloride and Anionic Polymer addition to settle out TSS and BOD in the primary  
57 clarifiers was shut down on September 30, 2022, for completion of trickling filter media  
58 replacement project.

59 **Secondary Treatment** – The trickling filter media project was completed on September 22, 2022.  
60 Trickling filter no. 2 was the last to be completed and plant staff put in service to start the growth  
61 of organisms that will remove the final effluent Ammonia. The trickling filters are run in Series  
62 mode with trickling filter no. 2 first and then trickling filter No. 1 last. We will run in this mode of  
63 operation for a few weeks and then switch to parallel mode in preparation for the wet weather  
64 season.

65 **Secondary Clarification** – Both clarifiers are online and will remain online in preparation for the  
66 wet weather season.

67 **Effluent Pumping** – An average of 110 gallons of sodium hypochlorite was used per day for  
68 disinfection of our effluent that is pumped to Raccoon Strait. We continue to run a higher chlorine  
69 residual setpoint from June to October when we need to test for the Enterococcus Bacteria per our  
70 NPDES permit.

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71 **Reclaimed Water** – The sand filter remains in operation supplying reclaimed water to the parks  
72 department. We distributed 1,944,000 gallons to the park in August. Of that, 665,200 gallons was  
73 from MMWD.

74 **Sludge Digestion** – Digester #1 is still online and performing well. Digester gas continues to be  
75 used in the boilers / heat exchangers to heat the digester.

76 **Call-outs** – There was one callout in September.

- 77 • On September 16th Camino Alto Pump Station Level Transducer failure alarm. Operator  
78 followed procedure to come in and worked with maintenance staff to replace level monitoring  
79 instrumentation.

80 **Sludge** – 16 bins of sludge hauled.

81 **Grit** – 0 bin of grit hauled.

82 **USA mark-outs** - 44 were processed, twenty-two were marked, costing a total of 47 hours labor.

83 **Overtime** - 2.5 hours, Operator stayed over to assist with switching power from standby power to  
84 utility power after the Switchgear project was completed.

85

86 **Training/Safety**

87 As of October 1, 2022, there were 3,472 days of continuous work without time-lost to accidents.

88 Staff completed the required:

- 89 • Forklift Operation

90 Safety Committee Meeting was on September 22.

91

92 **CAPITAL IMPROVEMENT PROGRAM FY 2022**

93 **WWTP Main Switchgear Replacement** **(99.5% Complete)**

94 The design and specifications to replace the 38-yr old 2,000-amp electrical main switchgear low  
95 bid of \$1,874,091.00 was awarded to DW Nicholson on 12/29/2020. Notice to Proceed) NTP was  
96 issued on 1/22/2021. The switchgear cabinet fabrication, circuit breakers, and electrical  
97 components all have 7+ month fabrication and build-out process. The electrical industry is  
98 experiencing material shortages, increased supply demands, plus overseas transportation and  
99 coordination issues and this contract is negatively impacted because many electrical components  
100 (relays, breakers, etc.) from Eaton are built overseas. Factory testing of the build-out of the new  
101 switchgear occurred on 11/16/2021. All tests were performed and met performance standards. The  
102 switchgear equipment delivery was received on 4/6/2022. This project required utilization of seven  
103 portable generators 24/7 for two weeks to keep the WWTP fully operational during the demolition  
104 of old main switchgear and installation of the new switchgear. On 7/18/22 PG&E disconnected  
105 utility power. Two work crews, over a two-week period, installed the new main switchgear system.  
106 This complicated task involved electronic breaker and cabinet installation, cabling, control wiring,  
107 program setting, inspection, commissioning activities. The team consisted of DW Nicholson,  
108 CAT-Peterson, EATON, PG&E, Pinnacle Power, Nute Engineering, Calton Electrical  
109 Engineering, and SASM Staff. The switchgear start-up, commissioning testing, and PG&E's  
110 utility power restoration were completed August 23 - six days ahead of schedule. Staff O&M  
111 training was conducted on August 4. Final payment is pending completion of the few final punch  
112 list items.

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113 **WWTP Rehabilitation Project – Phase 1 & Phase 2 (Construction is 99% Complete)**

114 The first phase of the WWTP Master Plan implementation began in April 2018 and is now  
115 completed. The primary goal in this initial phase is to help ensure reliable treatment of wastewater,  
116 as well as compliance with regional, State, and Federal regulations. Upgrades and rehabilitation of  
117 existing infrastructure are key components of this project. The following are ongoing and  
118 completed work activities, including change orders:

- 119 • Headworks Building Belt Filter Press Room Ventilation 100% Complete
- 120 • Rehabilitation of the Secondary Clarifier # 2 100% Complete
- 121 • Digester Gas Piping Replacement 100% Complete
- 122 • Rehabilitation of the Secondary Clarifier #1 100% Complete
- 123 • Hypochlorite Storage and Transfer System 100% Complete
- 124 • Digester Tank #1 Rehab and 50-ft Cover Replacement 100% Complete
- 125 • Digester Tank #2 Rehab and 40-ft Cover Replacement In progress
- 126 - Digester #2 Cleaning 100% Complete
- 127 - Cover Demolition 100% Complete
- 128 - Concrete repairs In Progress
- 129 - Digester piping replacement In progress
- 130 - Floating Cover Replacement In fabrication

131  
132 The new cover will be constructed of Stainless-Steel (Grade 316) due to its high corrosive  
133 resistance material, similar in design of Digester #1 new cover.

134 **Trickling Filter Media Replacement Project Status In progress**

135 Trickling Filter #1 Media Replacement 100% Complete

136 Trickling Filter #2 Media Replacement 100 % Complete

137 Trickling Filter (TF) #1 removal of old media started in April 2022 and with installation of new  
138 media in May 2022. Media replacement for TF#2 started on July 15 and was completed and put  
139 online on September 22, 2022. It takes up to several months for the biomass to develop and grow  
140 a zoogeal film on the new media for the filter to start performing as designed.

141 All contracts change orders are listed in following Table #1 below:

142

<b>TABLE #1 CHANGE ORDER TRACKER</b>					<i>Rev: 10/06/2021</i>	<i>NTP is 02/02/2018 (730 days)</i>	<i>Original Contract Completion 01/31/2020</i>
#	CO Type	Change Order - Activity	Status	Cost	Additional Contract Days	Additional Contract Days Total	
1		COR #1 Cancelled	<i>n/a</i>	\$0	0	0	
2	Value Added	Staff Parking Lot	<i>Completed</i>	\$9,099	2	2	

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3	Design Deficiency	H-20 Rated Hatch Install @ Headworks	Completed	\$8,994	2	4
4	Value Added	Primary Clarifiers #1 & #2 Coatings	Completed	\$235,681	5	9
5	Change-in-Site Condition	Primary Clarifiers Bay #1 & #2: Replace w/ New SS Rails and Rehab Supports	Completed	\$35,089	4	13
6	Change-in-Site	Headworks: Mud Valve Replacement	Completed	\$2,000	2	15
7	Value Added / Change-in-Site	20 work items completed under a T & M Force Account during July - Aug	Completed	\$19,877	3	18
8	Value added	Sandblasting and Coating of Trickling Filter #2 Influent Pipe	Completed	\$47,249	4	22
9	Value Added	Primary Clarifiers Bay #1 & #2: Coating of Basin Troughs and Scum Box	Completed	\$34,114	3	25
10	Change-in-Site	Testing, Removal, Trucking, and Landfill Disposal of 144 tons Contaminated Soil	Completed	\$25,244	2	27
11	Change-in-Site	Added Color to Concrete Perimeter Wall	Completed	\$10,398	0	27
12	Value Added	LIT Control wiring & Power	Completed	\$5,841	2	29
13		COR #13 Cancelled	n/a	\$0	0	29
14		COR #14 Cancelled	n/a	\$0	0	29
15		COR #15 Cancelled	n/a	\$0	0	29
16	Value Added	1/4 Turn attachments to 23 plug valves	Completed	\$8,964	5	34
17	Change in Site	Tricking Filter #2 Base Coating (CREDIT)	Completed	(\$258,039)	0	34
18	Change in Site	Trickling Filter Metal Structure Repairs	Completed	\$102,275	14	48
19	Value Added	22 items under T&M Force Account in Sept	Completed	\$33,706	4	52

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20	Change in Site	Trickling Filter #2 Fiberglass Media Support Beams and CIPP Liner (CREDIT)	Completed	(\$49,113)	0	52
21	Change in Site	DC#5 Fuel System Leak Detection Relocation	Completed	\$1,957	1	53
22	Value Added	Placement and compaction of 150 tons of 3/4" base rock along PW Access Road	Completed	\$9,585	1	54
23	Value Added	Bypassing Influent Work: Deep excavation manhole box, new tapping saddle to 22" dia force main, riser pipe, back fill, etc.	Completed	\$31,870	3	57
24	Value Added	12 work items completed under a T & M Force Account during Oct 2018	Completed	\$30,959	5	62
25	Change in Site	Headworks Roof Web Joist Modifications	Completed	\$10,122	1	63
26	Change in Site	Conductors, control wire, and conduit for Headworks gate H1 & H2 actuators	Completed	\$10,246	2	65
27	Change in Site	Ethernet switches w/ fiber ports	Completed	\$8,099	2	67
28	Change in Site	Grit pumps #1 & #2 pressure switches, gauges, & control wiring	Completed	\$12,813	1	68
29		COR #29 Cancelled		\$0	0	68
30	Change in Site	21 work items under T&M Force Account in Nov - Dec 2018	Completed	\$43,374	6	74
31	Change in Site	Secondary Clarifier Base Replacement & Leveling { \$106,545 cost to 800-820007-960 }	Completed	\$0	11	85
32	Change in Site	15 work items under T&M Force Account in Jan - March 2019	Completed	\$58,290	6	91
33	Value Added	Influent Pumps #1, #2, and #3 Installation	Completed	\$55,363	5	96
34	Value Added	Primary Clarifiers #3 & #4 Coatings	Completed	\$235,681	5	101

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35	Value Added	Jan-May 2019 (Electrical & Coating) T&M Work	<i>Completed</i>	\$81,990	8	109
36	Value Added	New Local Control Panels for Grit Classifier & Conveyor System	<i>Completed</i>	\$28,230	4	113
37	Change in Site	Crack Injection Repairs to Digesters & Secondary Clarifiers	<i>Completed</i>	\$52,757	3	116
38	Change in Site	Replace 16 SS Influent Channel Stop Gates	<i>Completed</i>	\$142,439	5	121
39	Change in Site	Emergency Digester Gas Piping Replacement	<i>Completed</i>	\$72,232	5	126
40	Change in Site	Grout Injection Repairs to Stabilize TF#1 Foundation	<i>Completed</i>	\$72,139	2	128
41	Change in Site	Primary Clarifier #3 & #4 Three-Water Spray Piping Replacement	<i>Completed</i>	\$33,760	2	130
42	Change in Site	Delete Trickling Filter #2 Base Coating <b>(CREDIT)</b>	<i>CREDIT</i>	<b>(\$258,039)</b>	0	130
43	Change in Site	Delete Trickling Filter #1 Pipe Liner <b>(CREDIT)</b>	<i>CREDIT</i>	<b>(\$16,746)</b>	0	133
44	Value Added	Pista Grit Replacement	<i>Completed</i>	\$12,041	3	137
45	Value Added	March - September T&M Work Tasks	<i>Completed</i>	\$19,312	4	138
46	Value Added	Headworks Belt Conveyor Spray bar	<i>Completed</i>	\$6,264	1	138
47	Change in Site	COR #47 Cancelled	<i>n/a</i>	\$0	0	138
48	Change in Site	<i>Reusing TF #2 existing metal structure</i> <b>(CREDIT)</b>	<i>CREDIT</i>	<b>(\$174,785)</b>	0	138
49	Change in Site	<i>Credit for unused quantities for six contract bid items (concrete repair type II, III, crack injection, etc.</i>	<i>CREDIT</i>	<b>(\$125,397)</b>	0	138
50	Value Added	<i>Delete the installation of aluminum pickets above new wall</i>	<i>CREDIT</i>	<b>(\$3,726)</b>	0	138
51	Change in Site	<i>Misc. Credits (delete butterfly valve install at R&amp;E, 3 drain valves at</i>	<i>CREDIT</i>	<b>(\$41,281)</b>	0	138

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		<i>PCs, and generator dual load bank load tests)</i>				
52	Design Deficiency	<i>Installation of Above Storage Tank (AST) grounding system</i>	<i>Completed</i>	<i>\$3,360</i>	<i>1</i>	<i>139</i>
53	Value Added	<i>Influent Pumps #4 and #5 Installation</i>	<i>Completed</i>	<i>\$65,054</i>	<i>4</i>	<i>143</i>
54	Value Added	<i>Secondary Clarifier Sludge Collector Arm Metal Repairs</i>	<i>Completed</i>	<i>\$9,682</i>	<i>2</i>	<i>145</i>
55	Value Added	<i>Additional Site Paving Work</i>	<i>Completed</i>	<i>\$13,448</i>	<i>0</i>	<i>145</i>
56	Design Deficiency	<i>Headworks Ventilation Modifications</i>	<i>Completed</i>	<i>\$246,262</i>	<i>90</i>	<i>235</i>
57	Value Added	<i>Emergency Effluent Bypass Valves Replacement</i>	<i>Completed</i>	<i>\$45,553</i>	<i>3</i>	<i>238</i>
58	Design Changes	<i>(DC) #9: Harmonic Filters and DC #10 MCC-2 /MCC-4 PLC Alarms and I/O relocation</i>	<i>Completed</i>	<i>\$77,858</i>	<i>3</i>	<i>241</i>
59	Value Added	<i>Install Double-Pipe Containment Hypochlorite Transfer line</i>	<i>Completed</i>	<i>\$90,055</i>	<i>30</i>	<i>271</i>
60	Value Added	<i>Shop Bldg. Mods &amp; Door Installations</i>	<i>Completed</i>	<i>\$18,101</i>	<i>2</i>	<i>273</i>
61	Value Added	<i>Channel Coating work after 13 isolation gates installed</i>	<i>Completed</i>	<i>\$41,200</i>	<i>10</i>	<i>283</i>
62	Value Added	<i>Primary South Clarifier HOA &amp; Circuit Controls</i>	<i>Completed</i>	<i>\$7,974</i>	<i>2</i>	<i>285</i>
63	Value Added	<i>Headwork Bldg.: Overhead LED Lighting Installation</i>	<i>Completed</i>	<i>\$24,920</i>	<i>4</i>	<i>289</i>

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64	Value Added	<i>Genset Controls and Transformer Work</i>	<i>Completed</i>	\$30,895	2	291
65	Value Added	<i>Comms Wiring, Alarm, Low water Cut-off Repairs</i>	<i>Completed</i>	\$8,046	2	293
66	Value Added	<i>Bar screen, Compactor, and Grit Washer Local Controls Installation</i>	<i>Completed</i>	\$22,256	5	298
67	Value Added	<i>MCC-4 PLC Mods</i>	<i>Completed</i>	\$8,205	2	300
68	Value Added	<i>Chlorine Contact Tube Improvements</i>	<i>Completed</i>	\$18,510	5	305
69	Value Added	<i>T&amp;M Work: Jan-April 2020</i>	<i>Completed</i>	\$90,953	7	312
70	Value Added	<i>Metal Siding Install</i>	<i>Completed</i>	\$9,421	1	313
71	Value Added	<i>Primary Clarifiers and Digester Gas Pipe Protective Coatings</i>	<i>Completed</i>	\$26,351	1	314
72	Value Added	<i>Digester Gas Piping (Phase II) (\$148,794 cost from 2020 acct #)</i>	<i>Completed</i>	\$0	14	328
73	Value Added	<i>Secondary Clarifier Equipment Replacement (\$217,869 charge to 800-820007-960)</i>	<i>Completed</i>	\$0	28	356
74	Value Added	<i>Relocate Conveyor and Grit Classifier Controls</i>	<i>Completed</i>	\$8,443	1	357
75	Value Added	<i>Secondary Clarifiers Weirs &amp; Baffle Replacements (\$121,264 charge to 800-820007-960)</i>	<i>Completed</i>	\$0	28	385
76	Value Added	<i>Go-No Alarm System Lighting Retrofits</i>	<i>Completed</i>	\$2,781	0	385
77		<i>Cancelled</i>	<i>--</i>	\$0	0	387

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78	Value Added	Hypochlorite Tank & Transfer System Replacement (\$165,229 charge to 800-821009-960)	Completed	\$0	30	417
79	Value Added	Site Work and Asphalt Improvements (\$58,700 charged to 800-820005-960)	Completed	\$0	0	417
80	Value Added	Secondary Clarifier #1 & #2 Repairs (\$124,517 charged to 800-820007-960)	Completed	\$0	8	425
81	Value Added	Site Work and Retaining Wall (\$14,000 charge to 800-820004-960)	Completed	\$0	1	426
82	Value Added	Digester #1 Floating Roof Demolition (\$171,000 charged to 800-821010-960)	Completed	\$0	10	436
83	Value Added	Digester #1 Floating Roof Replacement (\$1,214,420 to 800-821010-960)	In Progress	\$0	262	698
84	Value Added	Digester #1 Tank Interior Coatings & Joint Seal (\$224,723 to 800-821010-960)	Completed	\$0	0	698
85	<b>Value Added</b>	SASM T&M Work (Nov 2020 - March 2021) (\$122,442 to 800-821009-960)	Completed	\$0	0	698
86	Value Added	Digester #1 Tank System Piping Replacement (\$101,448 to 800-821010-960)	Completed	\$0	0	698
88	Value Added	Digester Gas Piping epoxy coatings (\$43,720 to 800-821010-960)	Completed	\$0	0	698
89	Value Added	Digester #1 Crack injection CREDIT (-\$19,687 to 800-821010-960)	Completed	\$0	0	698
90	<b>Value Added</b>	<b>Tricking Filter Media #1 &amp; #2 Replacement (\$2,173,229 to 800-818011-960)</b>	<i>Awarded</i>	<b>\$0</b>	304	1,002

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91	Value Added	Digester #1 Lid Manufacture Acceleration CREDIT (-\$20,959 to 800-821010-960)	Completed	\$0	0	1,002
92	Value Added	Trickling Filter Media Replacement (\$2,100,000 to 800-821XXX-960)	In Progress	\$0	0	1,002
93	Value Added	Digester #1 Safety Perimeter Handrail System (\$33,614 to 800-821010-960)	Completed	\$0	0	1,002
94	Value Added	Digester #1 Lid T&M (800-821010-960)	Completed	\$0	0	1,002
95	Value Added	Demolition of Digester #2 Lid (\$178,776 to 800-82XXXX-960)	Awarded	\$0	0	1,002
96	Value Added	Digester #2 Lid Replacement (\$1,541,361 to 800-823003-960) Revised contract extension date is July 30, 2023	Pending	\$0	185	1,187
97	Value Added	Digester #2 Tank Interior Coatings (\$197,605 to 800-823003-960)	Pending	\$0	0	1,187
98	Value Added	Digester #2 Piping Replacement (\$139,689 to 800-823003-960)	Pending	\$0	0	1,187
	<b><u>Change Order %</u></b> =	<b><u>8.96%</u></b>	<b><u>Total =</u></b>	<b><u>\$1,550,257</u></b>	July 30, 2023 Contract Extension	
			<i>Balance =</i>	<i>\$180,084</i>		

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