SOUTH SAN LUIS OBISPO COUNTY
SANITATION DISTRICT
Post Office Box 339, Oceano, California 93475-0339
1600 Aloha, Oceano, California 93445-9735
Telephone (805) 489-6666 FAX (805) 489-2765
www.sslocsd.us

AGENDA
BOARD OF DIRECTORS MEETING
OCEANO COMMUNITY SERVICES DISTRICT,
1655 FRONT ST, OCEANO CA 93445

Wednesday, September 6, 2023, at 6:00 p.m.

Board Members	**Agencies**
Caren Ray Russom, Chair	City of Arroyo Grande
Karen Bright, Vice Chair	City of Grover Beach
Linda Austin, Director	Oceano Community Services District
Alternate Board Members	
Lan George, Director	City of Arroyo Grande
Clint Weirick, Director	City of Grover Beach
Allene Villa, Director	Oceano Community Services District

1. CALL TO ORDER AND ROLL CALL

2. PLEDGE OF ALLEGIANCE

3. AGENDA REVIEW

4. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON AGENDA

This public comment period is an invitation to members of the community to present comments, thoughts or suggestions on matters not scheduled on this agenda. Comments should be limited to those matters which are within the jurisdiction of the District. The Brown Act restricts the Board from taking formal action on matters not published on the agenda. In response to your comments, the Chair or presiding Board Member may:

- Direct Staff to assist or coordinate with you.
- Direct Staff to place your issue or matter on a future Board meeting agenda.

Please adhere to the following procedures when addressing the Board:

- Comments should be limited to three (3) minutes or less.
- Your comments should be directed to the Board as a whole and not directed to individual Board members.
- Slanderous, profane or personal remarks against any Board Member, Staff or member of the audience shall not be permitted

Any writing or document pertaining to an open-session item on this agenda which is distributed to a majority of the Board after the posting of this agenda will be available for public inspection at the time the subject writing or document is distributed. The writing or document will be available for public review in the offices of the Oceano CSD, a member agency located at 1655 Front Street,

Oceano, California. Consistent with the Americans with Disabilities Act (ADA) and California Government Code §54954.2, requests for disability-related modification or accommodation, including auxiliary aids or services, may be made by a person with a disability who requires modification or accommodation in order to participate at the above referenced public meeting by contacting the District Administrator or Bookkeeper/Secretary at (805) 481-6903. So that the District may address your request in a timely manner, please contact the District two business days in advance of the meeting.

5. CONSENT AGENDA:

The following routine items listed below are scheduled for consideration as a group. Each item is recommended for approval unless noted. Any member of the public who wishes to comment on any Consent Agenda item may do so at this time. Any Board Member may request that any item be withdrawn from the Consent Agenda to permit discussion or to change the recommended course of action. The Board may approve the remainder of the Consent Agenda on one motion.

5A. Approval of Warrants
5B. Approval of Meeting Minutes of August 2, 2023

6. ACTION ITEMS:

6A. WWTP REDUNDANCY PROJECT SECONDARY CLARIFIER DAMAGE UPDATE

Recommendation: Receive and File.

6B. APPROVE AND AUTHORIZE DISTRICT ADMINISTRATOR TO ENTER INTO A PROFESSIONAL SERVICES AGREEMENT WITH MICHAEL K. NUNLEY AND ASSOCIATES, INC. TO PERFORM A TRUNK SEWER COLLECTION SYSTEM CAPACITY EVALUATION AND SANITARY SEWER MANAGEMENT PLAN UPDATE

Recommendation:

1. Approve and authorize District Administrator to enter into Professional Service Agreement with Michael K. Nunley and Associates, Inc. in the amount of $99,488;
2. Authorize the District Administrator to approve a specific contingency for this project up to 10% ($9,949) of the total project amount for a total potential amount of $109,437

6C. DISTRICT ADMINISTRATOR AND PLANT OPERATIONS REPORT

Recommendation: Receive and File.

7. BOARD MEMBER COMMUNICATIONS:

8. CLOSED SESSION

Conference with Legal Counsel—Anticipated Litigation • Significant Exposure to Litigation Pursuant to 54956.9(b): 1 case.

9. ADJOURNMENT

The next regularly scheduled Board Meeting is October 4, 2023, 6:00 pm at the Oceano Community Services District,
1655 Front St, Oceano CA 93445

WARRANT REGISTER
9/6/2023
FISCAL YEAR 2023/24

VENDOR	BUDGET LINE ITEM	DETAIL	WARRANT NO.	ACCT	ACCT BRKDN	TOTAL
ALLIED ADMINISTRATORS	EMPLOYEE DENTAL	SEPTEMBER 2023	080223-7025	6025	1,420.55	1,420.55
ARAMARK	EMPLOYEE UNIFORMS	07/31/2023	7026	7025	509.69	509.69
BRENNTAG	PLANT CHEMICALS	BPI361114; BPI361115	7027	8050	20,744.94	20,744.94
COASTLINE EQUIPMENT	EQUIPMENT MAINTENANCE	1039568	7028	8030	2,310.72	2,310.72
CULLIGAN CCWT	RENTAL EQUIPMENT	82330	7029	7032	60.00	60.00
EVERYWHERE RIGHT NOW	COMPUTER SUPPORT	AUGUST 2023	7030	7082	100.00	100.00
GRAINGER	EQUIPMENT MAINTENANCE	MULTIPLE	7031	8030	2,884.53	2,884.53
GSOLUTIONZ	COMMUNICATIONS	SEPTEMBER 2023	7032	7013	72.95	72.95
JB DEWAR	FUEL	2579979	7033	8020	179.72	179.72
JR FILANC	REDUNDANCY	APPLICATION 27	7034	20-7080	361,476.73	361,476.73
KENNEDY JENKS	REDUNDANCY	165236	7035	20-7080	19,421.05	19,421.05
LINDE GAS & EQUIP	EQUIPMENT RENTAL	06/20/23-07/20/23	7036	7032	43.61	43.61
MCMASTER CARR	EQUIPMENT MAINTENANCE	MULTIPLE	7037	8030	444.74	444.74
MINERS	EQUIPMENT MAINTENANCE	JULY 2023	7038	8030	265.44	265.44
MISSION COMMUNICATIONS	COMMUNICATIONS	ANNUAL SUBSCRIPTION	7039	7011	227.40	227.40
MOTION INDUSTRIES INC	EQUIPMENT MAINTENANCE	CA62-00045243	7040	8030	159.25	159.25
POLYDYNE	PLANT CHEMICALS	1758711	7041	8050	3,599.97	3,599.97
READY REFRESH	ADMIN BUILDING	06/25/23-07/24/23	7042	8045	249.74	249.74
SO CAL GAS	GAS	06/31/23-07/29/23	7043	7092	3,822.85	3,822.85
SSLOCSD	BENEFITS	JULY 2023	7044		115,021.67	115,021.67
UMPQUA BANK,	CREDIT CARD	JULY 2023	7045		4,663.79	4,663.79
AGP VIDEO	PROFESSIONAL SERVICE	JULY 20, 2023	081623-7046	7080	650.00	650.00
AIRFLOW FILTER SERVICE	EQUIPMENT MAINTENANCE	68973	7047	8030	174.15	174.15
AMERICAN BUSINESS MACHINES	OFFICE SUPPLY'S	697155	7048	8045	77.65	77.65
ARAMARK	EMPLOYEE UNIFORMS	08/07; 08/14	7049	7025	1,072.80	1,072.80
ATT MOBILITY	COMMUNICATIONS	07/03/23-08/02/23	7050	7013	80.48	80.48
BRENNTAG	PLANT CHEMICALS	BPI362421; BPI364237; BPI364750	7051	8050	36,743.74	36,743.74
BURDINE PRINTING	OFFICE SUPPLY'S	48347	7052	8035	32.33	32.33
CARQUEST	AUTOMOTIVE	7314-1388336	7053	8032	48.97	48.97
CASTROS TRUCKING	EQUIPMENT MAINTENANCE	2817	7054	8030	450.00	450.00
CHARTER COMMUNICATIONS	COMMUNICATIONS	07/29/23-08/28/23	7055	7013	319.96	319.96
CLINT WEIRICK	TRAINING	SLDF PER DIEM	7056	7067	120.00	120.00
COASTAL JANITORIAL	STRUCTURE MAINTENANCE	265340	7057	8061	775.00	775.00
COASTAL ROLLOFF	RUBBISH	JULY 2023	7058	7093	2,386.85	2,386.85
CULLIGAN CCWT	EQUIPMENT RENTAL	82556	7059	7032	90.00	90.00
EH WACHS	CAPITAL EQUIPMENT	ELECTRIC VALVE TURNER	7060	19-8010	12,934.35	12,934.35
ENGEL & GRAY	BIOSOLIDS HANDLING	JULY 2023	7061	7085	5,401.27	5,401.27
GORDON SAND	EQUIPMENT MAINTENANCE	0627193-IN	7062	8060	1,560.50	1,560.50
GRAINGER	EQUIPMENT MAINTENANCE	9784036932	7063	8030	251.40	251.40
GSOLUTIONZ	COMMUNICATIONS	08/15/23-09/14/23	7064	7013	356.67	356.67
II SUPPLY	SAFETY SUPPLY'S	93304; 93303	7065	8030	380.92	380.92
INTERSTATE BATTERIES	EQUIPMENT MAINTENANCE	10017021	7066	8032	287.21	287.21
JB DEWAR	FUEL	261042	7067	8020	269.30	269.30
MCMASTER CARR	EQUIPMENT MAINTENANCE	MULTIPLE	7068	8030	243.91	243.91
MICHAEL K NUNLEY	REDUNDANCY	102894	7069	20-7080	20,010.56	20,010.56
NVIRO	REDUNDANCY	3016	7070	20-7080	300.00	1,355.00
	EQUIPMENT MAINTENANCE	3070; 3090		8030	1,055.00	
OCSD	WATER	05/18/23-07/18/23	7071	7094	471.71	471.71
OILFIELD ENVIRONMENTAL	CHEMICAL ANALYSIS	MULTIPLE	7072	7078	1,946.50	2,057.00
	BRINE ANALYSIS	2305147		7086	110.50	
PERC WATER	REDUNDANCY START UP	6133	7073	20-7080	20,466.00	20,466.00
PG&E	ELECTRICITY	07/11/23-08/08/23	7074	7091	34,908.34	34,908.34
RINCON	COASTAL HAZARD MONITORING	48219; 50349	7075	20-7080	10,377.25	11,531.00
	BIOLOGICAL MONITORING	50309		20-7080	1,153.75	
SO CO SANITARY	RUBBISH	AUGUST 2023	7076	7093	365.49	365.49
SPRINT	COMMUNICATIONS	07/04/23-08/03/23	7077	7014	262.10	262.10
TELEDYNE	REDUNDANCY	S020615571	7078	20-7080	20,551.27	20,551.27
USA BLUEBOOK	EQUIPMENT MAINTENANCE	INV00010996	7079	8040	232.56	232.56
VWR INTERNATIONAL	LAB SUPPLY'S	2023-220; 226; 229	7080	8040	1,535.27	1,535.27
SUBTOTAL					**716,133.10**	**716,133.10**

We hereby certify that the demands numbered serially from 080223-7025 to 081623-7080 together with the supporting evidence have been examined, and that they comply with the requirements of the SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT. The demands are hereby approved by motion of the SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT, together with warrants authorizing and ordering the issuance of checks numbered identically with the particular demands and warrants.

BOARD OF DIRECTORS: DATE:

Chairman Secretary

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SUMMARY ACTION MINUTES
Meeting of Wednesday, August 2, 2023

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1. CALL TO ORDER AND ROLL CALL

Chair Caren Ray Russom called the meeting to order and recognized a quorum.

Present: Caren Ray Russom, Chair, City of Arroyo Grande
Clint Weirick, Vice Chair, City of Grover Beach
Linda Austin, Director, Oceano Community Services District

District Staff: Jeremy Ghent, District Administrator
Keith Collins, District Legal Counsel
Michael Arias, Interim District Superintendent
Amy Simpson, District Bookkeeper/Secretary

2. PLEDGE OF ALLEGIANCE

3. AGENDA REVIEW

Action: Approved as presented.

4. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON AGENDA

There was no public comment.

5. CONSENT AGENDA:

5A. Approval of Warrants
5B. Approval of Meeting Minutes of June 21, 2023
5C. Request Approval to Purchase Thomas Screw Conveyor

There was no public comment.

Motion: Director Weirick motioned to approve the Consent Agenda as presented.
Second: Director Austin

Action: Approved unanimously by roll call vote.

6. ACTION ITEMS:

6A. WWTP REDUNDANCY PROJECT UPDATE

Eileen Shields from MKN, and Associates presented this item. She reported that on July 10, 2023, damage to the new secondary clarifier (SC2) floor slab was discovered. The unanticipated issue at SC2 will have schedule and budget impacts, the extent of which is unknow at this time. She also had a correction to the Schedule Summary. The corrected days are shown in red below.

Schedule Summary:

Notice to Proceed:	January 25, 2021	Contract time elapsed	907
Original Contract Duration	900	Contract time remaining	-3
Current Contract Duration	904	Change order days:	4
Current Contract Completion Date	July 18, 2023	Weather days:	5

The Board had a brief discussion regarding the secondary clarifier. An update will be brought to the next meeting.

There was no public comment.

Action: The Board received and filed this report.

6B. AUTHORIZE EXECUTION OF CONTRACT AMENDMENT #7 FOR WWTP REDUNDANCY PROJECT CONSTRUCTION PHASE ENGINEERING SERVICES WITH KENNEDY/JENKS CONSULTANTS, INC., PENDING USDA CONCURRENCE

Administrator Ghent presented this report. The primary cause for the increased services is due to the extended contract completion time. The request is based on increased efforts required to participate in meetings and to review and respond to Requests for Information (RFIs) and construction submittals.

The agreement with Filanc contains provisions for liquidated damages for delay in the amount of $3,500 per day for every day beyond the contract term until the work is fully complete. Assuming completion by October 27, 2023, 101 days past the contact term, the liquidated damages owed would total $353,500, sufficient to cover this amendment and the proposed amendment for MNS Engineers for continued construction management services (Agenda Item 6C). KJ Amendment: $49,549 + MNS Amendment: $285,827 = $335,376 < $353,500 (LDs)).

The Board had a brief discussion.

There was no public Comment.

Motion: Director Austin motioned to authorize the District Administrator to execute a contract amendment for Construction Phase Design Engineering Services for the Wastewater Treatment Plant Redundancy Project with Kennedy/Jenks Consultants, Inc. in the amount of $49,549, pending USDA concurrence.

Second: Director Weirick

Action: Approved unanimously by roll call vote.

6C. AUTHORIZE EXECUTION OF CONTRACT AMENDMENT #1 FOR WWTP REDUNDANCY PROJECT CONSTRUCTION MANAGEMENT SERVICES WITH MNS ENGINEERS, INC., PENDING USDA CONCURRENCE

Administrator Ghent presented this report. The primary cause for the increased services is due to the extended contract completion time, which was primarily caused by pump procurement issues and delays.

The agreement with Filanc contains provisions for liquidated damages for delay in the amount of $3,500 per day for every day beyond the contract term until the work is fully complete. Assuming completion by October 27, 2023, 101 days past the contact term, the liquidated damages owed would total $353,500, sufficient to cover this amendment and the proposed amendment for MNS Engineers for continued construction management services (Agenda Item 6C). KJ Amendment: $49,549 + MNS Amendment: $285,827 = $335,376 < $353,500 (LDs)).

The Board had a brief discussion.

There was no public Comment.

Motion: Director Weirick motioned to authorize the District Administrator to execute a contract amendment for Construction Management Services for the Wastewater Treatment Plant Redundancy Project with MNS Engineers, Inc., (MNS) in the amount of $285,827 pending USDA concurrence.

Second: Director Austin

Action: Approved unanimously by roll call vote.

6D. DISTRICT ADMINISTRATOR AND PLANT OPERATIONS REPORT

Administrator Ghent presented the Administrator report. He announced that Mychal Jones will be returning from leave Monday.

Interim Superintendent Michael Arias presented this report. During the reporting period of June 1st- June 30th there were no violations of the District's National Pollutant Discharge Elimination System (NPDES) Permit to report. All process values were within Permit limitations.

The Board thanked Michael Arias for his superb job as Interim Plant Superintendent.

Action: The Board received and filed this report.

7. BOARD MEMBER COMMUNICATIONS

Director Weirick announced that the City of Grover Beach will be bringing an item to the Sanitation District regarding connection fees.

8. ADJOURNMENT:

6:46 p.m.

THESE MINUTES ARE DRAFT AND NOT OFFICIAL UNTIL APPROVED BY THE BOARD OF DIRECTORS AT A SUBSEQUENT MEETING.

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Staff Report

To: Board of Directors
From: Jeremy Ghent, District Administrator
Date: September 6, 2023

Subject: **WWTP REDUNDANCY PROJECT SECONDARY CLARIFIER DAMAGE UPDATE**

RECOMMENDATION:

Receive and file the Wastewater Treatment Plant Redundancy Project Secondary Clarifier Damage Update.

BACKGROUND:

At the August 2nd, 2023 Board meeting staff informed the Board and the public that the newly constructed secondary clarifier had developed a substantial crack. A timeline of events is described in the following paragraphs.

On July 10, 2023, damage to the new secondary clarifier floor slab was discovered. Filanc had begun draining secondary clarifier 2 (SC2) the week prior to prepare for commissioning of the aeration basins. On the morning of July 10th, upon returning to the site, it was found the clarifier mechanism had stopped operating because an over-torque alarm had shut down the motor and there was more water in the tank than expected. It seemed the mechanism may have gotten stuck on something, putting more pressure/torque on the drive motor. Filanc drained the tank to investigate. As the water level dropped, it became apparent that water was coming up through the floor adjacent to the mechanism arm. As the water level became lower, a “grout bubble” could be seen. The floor design included a reinforced concrete floor with 2 inches of grout overtop. The grout had lifted up away from the floor in an area of the floor and a crack formed at the top where groundwater was flowing out.

At the construction meeting on Tuesday July 11th, Kennedy Jenks (KJ) directed Filanc to carefully break out the grout layer that had delaminated from the structural slab. This work commenced on Wednesday July 12th, after the clarifier had been washed down and drained. The source of the water leak was found in the structural slab, approximately four-and-a-half feet from the inside face of the clarifier wall. Additionally, the clarifier mechanism is canted, with arms deflected by approximately 8 inches.

This unanticipated issue at SC2 will have schedule and budget impacts, the extent of which is unknown at this time. The Project Team is working to determine the cause and to develop the best path forward. Physical inspections have been performed by KJ and ClearStream (the clarifier

mechanism manufacturer). MKN retained the services of a structural engineer under the Project Management contract to assist in review of the findings and recommendations. Additionally, MNS performed a survey of the clarifier floor.

DISCUSSION:

Since the August 2nd Board meeting the District's investigation has analyzed five different potential causations for the concrete failure. After analysis the team has narrowed its focus down to two potential contributing factors to the failures.

Unforeseen Site Condition (Ruled Out)

There is no evidence of an unforeseen site condition or a changed site condition that would have contributed to the failure.

Act of God/Natural Disaster (Ruled Out)

There were no earthquakes or other catastrophes that could have been a cause.

Construction Defect (Largely Ruled Out)

A potential construction defect that could cause a failure like this would be a concrete 'cold' joint. This is when the concrete begins to setup. MNS has records of all of the concrete trucks and the time at which each load was placed. The project team has done a thorough review of the timing along with project photos and have identified no evidence that the contractor's method of construction would have created a 'cold' joint in the slab.

Potential Material Failure

The Project Team has identified a missing additive from the concrete mix that was placed in the floor of the clarifier. This additive is intended to reduce shrinkage of the concrete as it cures. Excessive amount of concrete shrinkage could lead to cracks and failures. Laboratory tests are being conducted to attempt to understand the magnitude to which this may have contributed to the failure, if at all.

While the additive was not specifically required in the mix. A shrinkage of 0.04% or less was required in the specification. The approved lab results that the District received, after the contractor performed the preconstruction mix design and testing, included the Shrinkage Reducing Agent (SRA). However, the concrete placed in the clarifier floor did not include any SRA

It is possible that the shrinkage met the specification without the additive. The above referenced lab results will indicate whether or not the concrete actually used met the shrinkage requirement and, if not, how far out of compliance it was.

Potential Design Error

The District in conjunction with MKN and Smith Structural Group has undertaken review of Kennedy Jenks structural design. Currently the effort has revealed some questions around the adequacy of the design of the thickness of the floor slab. Specifically, the slab's ability to resist hydrostatic uplift. Kennedy Jenks is currently in the process of clarifying their design and responding to questions from our 3rd party review.

NEXT STEPS:

Staff expects to have a full understanding of the design adequacy by Mid-September. Once the review of the structural design is complete, and it is determined to be adequate or inadequate. The team can begin developing detailed repair strategies.

Staff expects to have the concrete analysis results at the end of September. This longer timeframe is due to the length of time for the concrete to cure per the test method. These results will assist in understanding the role the material may have played in the failure.

Staff is in the process of measuring the hydrostatic pressure underneath the slab to better understand the current forces the slab is experiencing.

Staff and the project team will continue to update the board at every board meeting.

FINANCIAL CONSIDERATIONS:

The District has incurred some minimal expenses participating in the 3rd party investigation. The cost of the repair and delay is still unknown. At this time there is no indication that the District will incur direct costs from the delay or to implement the repair.

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Staff Report

To: Board of Directors
From: Jeremy Ghent, District Administrator
Date: September 6, 2023

Via: Mychal Jones, Plant Superintendent

Subject: **APPROVE AND AUTHORIZE DISTRICT ADMINISTRATOR TO ENTER INTO A PROFESSIONAL SERVICES AGREEMENT WITH MICHAEL K. NUNLEY AND ASSOCIATES, INC. TO PERFORM A TRUNK SEWER COLLECTION SYSTEM CAPACITY EVALUATION AND SANITARY SEWER MANAGEMENT PLAN UPDATE**

RECOMMENDATION:

1. Approve and authorize District Administrator to enter into Professional Service Agreement with Michael K. Nunley and Associates, Inc. in the amount of $99,488;
2. Authorize the District Administrator to approve a specific contingency for this project up to 10% ($9,949) of the total project amount for a total potential amount of $109,437

BACKGROUND AND DISCUSSION

In 2011, the District completed an Inflow and Infiltration Study that included observations about potential sources of inflow and infiltration (I/I) into the District's trunk sewer collection system, sewer flow estimates for all three-member agency's collection systems, and flow monitoring data analysis and recommendations for future monitoring efforts. Following the conclusion of the Study it was recommended to perform additional flow monitoring within the Arroyo Grande Flow Basin and more specifically:

City of Arroyo Grande Flow Basin

- Develop a flow monitoring location plan aimed at reducing the overall basin into smaller more manageable basins that could identify areas which show a high prevalence of I/I and exclude areas that do not warrant additional subsequent field testing;
- Implement techniques that provide information relative to on-trunk and off-trunk (i.e. Arroyo Grande Collection System) source locations;
- Isolate flow contributions that may be originating from the Arroyo Grande Creek between Manhole C20 and C20a;

- Coordinate with City staff to utilize City sewer lift station data in conjunction with future flow monitoring data to identify I/I source locations more thoroughly.

City of Grover Beach Flow Basin

This basin observed minimal I/I for the majority of the flow monitoring session and exhibited inflow only during larger storm events. Additional flow monitoring is not warranted at this time for this basin. However, estimated flows based on population could not be validated for the Grover Beach and Oceano areas and it was recommended to review additional information to develop flow estimates that could be compared to measured flow from the flow meters during dry weather conditions.

Oceano Flow Basin

- Develop a flow monitoring location plan aimed at reducing the overall basin into smaller more manageable basins which could identify areas which show a high prevalence of I/I and exclude areas that do not warrant additional subsequent field testing;
- Implement techniques that provide information relative to on-trunk and off-trunk (i.e. OCSD Collection System) source locations;
- Evaluate per-capita municipal water usage against per-capita sewer contributions to determine if elevated per-capita sewer contributions observed in this study are repeatable and if so, evaluate likelihood of potential long-term groundwater infiltration currently being recognized as base sewer flow;
- Coordinate with OCSD staff to initiate manhole inspections in areas where inflow was observed during field investigation efforts (OCSD Manhole A1-D, A3-A and others);

In addition to the I/I Study, the last capacity evaluation of the District's trunk sewer collection system was completed in 2004. A thorough capacity evaluation is needed to develop the capital improvements program focused on addressing capacity deficiencies under existing and future flow conditions and/or implementing improvements for reducing I/I into the trunk sewer system.

In conjunction with the I/I study and capacity evaluation, a Sewer System Management Plan (SSMP) update is needed to capture all findings, and to bring the District into compliance with the new State Water Resources Control Board General Order No. 2022-0103-DWQ. The Order's requirements for SSMPs is as follows:

To provide a consistent, statewide regulatory approach to address sanitary sewer spills, the State Water Board adopted Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order No. 2022-0103-DWQ (Sanitary Sewer Systems General Order) on December 6, 2022. The Sanitary Sewer Systems General Order requires public agencies that own or operate sanitary sewer systems to develop and implement sewer system management plans and report all sanitary sewer spills to the State Water Board's online California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database.

To facilitate adequate local funding and management of its sanitary sewer system(s), the Enrollee shall develop and implement an updated Sewer System Management Plan. The scale and complexity of the Sewer System Management Plan, and specific elements of the Plan, must match the size, scale and complexity of the Enrollee's sanitary sewer system(s). The Sewer System Management Plan must address, at minimum, the required

Plan elements in Attachment D (Sewer System Management Plan – Required Elements) of this General Order. To be effective, the Sewer System Management Plan must include procedures for the management, operation, and maintenance of the sanitary sewer system(s). The procedures must: (1) incorporate the prioritization of system repairs and maintenance to proactively prevent spills, and (2) address the implementation of current standard industry practices through available equipment, technologies, and strategies.

The Enrollee shall conduct an internal audit of its Sewer System Management Plan, and implementation of its Plan, at a minimum frequency of once every three years. The audit must be conducted for the period after the end of the Enrollee's last required audit period. Within six months after the end of the required 3-year audit period, the Legally Responsible Official shall submit an audit report into the online CIWQS Sanitary Sewer System Database per the requirements in section 3.10 (Sewer System Management Plan Audit Reporting Requirements) of Attachment E1 of this General Order.

At a minimum, the Enrollee shall update its Sewer System Management Plan every six (6) years after the date of its last Plan Update due date. (For an Enrollee previously regulated by Order 2006-0003-DWQ, the six-year period shall commence on the due date identified in section 3.11 of Attachment E1 (Notification, Monitoring, Reporting and Recordkeeping Requirements) of this Order.

OUTCOME:

This effort will allow the District to:

- Meet regulatory compliance through updating the District's SSMP
- Understand the capacity of the District's trunk mains by member agency.
- Identify potential sources of Inflow and Infiltration by member agency
- Identify needs for both repairs and upgrades to the District's collection system in order to continue to meet development needs of the member agencies.

The scope of work consists of the following Task Groups;

Task Group 100 – Meetings, Project Management, and QA/QC
Task Group 200 – Wastewater Treatment Plant Flow Summary
Task Group 300 – Member Agency Baseline and Future Flow Estimates
Task Group 400 – Member Agency Lift Station Information
Task Group 500 – Dry Weather Flow Monitoring Session
Task Group 600 – Peak Dry Weather Flow Monitoring Session
Task Group 700 – Wet Weather Flow Monitoring Session
Task Group 800 – Capacity Evaluation
Task Group 900 – Preparation of Sewer System Management Plan Update

All Task Groups are further described in the attached Proposal for Engineering Services by Michael K. Nunley and Associates, Inc.

FISCAL CONSIDERATIONS:

Staff recommend using Fund 19-8015, Trunk Sewer Maintenance for this project. This Study was not included in the 2023 Fiscal Year Budget. Staff will bring back a budget adjustment at the Mid-Year Budget Review.

ATTACHMENTS:

Proposal from Michael K. Nunley and Associates, Inc.

MKN & Associates, Inc.
P O Box 1604
Arroyo Grande CA 93421
805 904 6530

August 17, 2023

Jeremy Ghent
District Administrator
South San Luis Obispo County Sanitation District
(Submitted Electronically)

RE: Proposal for Engineering Services – Trunk Sewer Collection System Capacity Evaluation and Sanitary Sewer Management Plan Update

Dear Mr. Ghent,

Michael K. Nunley & Associates, Inc., (MKN) is pleased to submit this proposal to complete a capacity evaluation, including an updated Inflow and Infiltration (I/I) Study, and a Sanitary Sewer Management Plan (SSMP) update for the South San Luis Obispo County Sanitation District (District) trunk sewer collection system. This project will involve completing three separate flow monitoring sessions including a four-week dry weather flow monitoring session, two-week peak (summer) dry weather flow monitoring session, and an eight-week wet weather (winter) session. The purpose of the flow monitoring is to identify current flow estimates from the City of Arroyo Grande, City of Grover Beach and Oceano Community Services District collection systems and identify areas of the District's trunk sewer collection system that may be impacted by I/I during wet weather conditions. MKN will perform hydraulic modeling to evaluate the capacity of the existing trunk sewer collection system to serve existing and future flows from the District's service area.

In addition, the District has requested that MKN prepare an update to the District's Sewer System Management Plan (SSMP), which was last updated in August 2014. The SSMP update would allow the District to meet compliance with current permit requirements (General Order 2022-0103-DWQ).

UNDERSTANDING

We understand that the District completed an Inflow and Infiltration Study (dated August 2011 and completed by Wallace Group) that included observations about potential sources of I/I into the District's trunk sewer collection system, sewer flow estimates for the City of Arroyo Grande, City of Grover Beach and Oceano Community Services District collection systems, flow monitoring data analysis and recommendations for future flow monitoring efforts. The recommendations from the 2011 I/I Study are as follows:

City of Arroyo Grande Flow Basin

It was recommended to perform additional flow monitoring within the Arroyo Grande Flow Basin and more specifically:

- Develop a flow monitoring location plan aimed at reducing the overall basin into smaller more manageable basins that could identify areas which show a high prevalence of I/I and exclude areas that do not warrant additional subsequent field testing;
- Implement techniques that provide information relative to on-trunk and off-trunk (i.e. Arroyo Grande Collection System) source locations;

- Isolate flow contributions that may be originating from the Arroyo Grande Creek between Manhole C20 and C20a;
- Coordinate with City staff to utilize City sewer lift station data in conjunction with future flow monitoring data to more thoroughly identify I/I source locations.

City of Grover Beach Flow Basin

This basin observed minimal I/I for the majority of the flow monitoring session and exhibited inflow only during larger storm events. Additional flow monitoring is not warranted at this time for this basin. However, estimated flows based on population could not be validated for the Grover Beach and Oceano areas and it was recommended to review additional information to develop flow estimates that could be compared to measured flow from the flow meters during dry weather conditions.

Oceano Flow Basin

It was recommended to complete additional flow monitoring within the Oceano Community Services District Basin and more specifically:

- Develop a flow monitoring location plan aimed at reducing the overall basin into smaller more manageable basins that identify areas which could identify areas which show a high prevalence of I/I and exclude areas that do not warrant additional subsequent field testing;
- Implement techniques that provide information relative to on-trunk and off-trunk (i.e. OCSD Collection System) source locations;
- Evaluate per-capita municipal water usage against per-capita sewer contributions to determine if elevated per-capita sewer contributions observed in this study are repeatable and if so, evaluate likelihood of potential long-term groundwater infiltration currently being recognized as base sewer flow;
- Coordinate with OCSD staff to initiate manhole inspections in areas where inflow was observed during field investigation efforts (OCSD Manhole A1-D, A3-A and others);

In addition to the I/I Study, the last capacity evaluation of the District's trunk sewer collection system was completed in 2004 (Wallace Group). A thorough capacity evaluation is needed to develop the capital improvements program.

The District's last SSMP update was completed in 2014. Since that time the State Water Resources Control Board (State Water Board) has issued Order No. 2022-0103-DWQ, which includes the following requirements for SSMPs:

> *To provide a consistent, statewide regulatory approach to address sanitary sewer spills, the State Water Board adopted Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order No. 2022-0103-DWQ (Sanitary Sewer Systems General Order) on December 6, 2022. The Sanitary Sewer Systems General Order requires public agencies that own or operate sanitary sewer systems to develop and implement sewer system management plans and report all sanitary sewer spills to the State Water Board's online California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database.*
>
> *To facilitate adequate local funding and management of its sanitary sewer system(s), the Enrollee shall develop and implement an updated Sewer System Management Plan. The scale and*

complexity of the Sewer System Management Plan, and specific elements of the Plan, must match the size, scale and complexity of the Enrollee's sanitary sewer system(s). The Sewer System Management Plan must address, at minimum, the required Plan elements in Attachment D (Sewer System Management Plan – Required Elements) of this General Order. To be effective, the Sewer System Management Plan must include procedures for the management, operation, and maintenance of the sanitary sewer system(s). The procedures must: (1) incorporate the prioritization of system repairs and maintenance to proactively prevent spills, and (2) address the implementation of current standard industry practices through available equipment, technologies, and strategies.

The Enrollee shall conduct an internal audit of its Sewer System Management Plan, and implementation of its Plan, at a minimum frequency of once every three years. The audit must be conducted for the period after the end of the Enrollee's last required audit period. Within six months after the end of the required 3-year audit period, the Legally Responsible Official shall submit an audit report into the online CIWQS Sanitary Sewer System Database per the requirements in section 3.10 (Sewer System Management Plan Audit Reporting Requirements) of Attachment E1 of this General Order.

At a minimum, the Enrollee shall update its Sewer System Management Plan every six (6) years after the date of its last Plan Update due date. (For an Enrollee previously regulated by Order 2006-0003-DWQ, the six-year period shall commence on the due date identified in section 3.11 of Attachment E1 (Notification, Monitoring, Reporting and Recordkeeping Requirements) of this Order.

Based on review of existing information and discussions with District staff, MKN has prepared the following scope of work:

SCOPE OF WORK

MKN will perform the following services for this project:

Task Group 100 – Meetings, Project Management, and QA/QC

The following meetings are assumed for this project to allow MKN to interface with the District to discuss progress, receive direction, and review the project deliverables. It is assumed that the following meetings will be required:

- Kickoff Meeting (1 total)
- Review meeting for dry weather flow monitoring results (1 total)
- Review meeting for wet weather flow monitoring results (1 total)
- Progress meeting (3 total)
- Conclusions and recommendations (1 total)
- Review meeting for draft capacity study (1 total)

MKN will prepare and distribute meeting agendas prior to the scheduled meeting and will record and

distribute meeting notes to all attendees. The meeting notes will document the discussions and decisions made.

All project deliverables will be subjected to internal quality control review by personnel who have the appropriate expertise and who were not involved directly in the development of the deliverable. MKN's Quality Control Reviewer is responsible for identifying technical issues as well as scope elements that have not been fully addressed. MKN's Quality Management System will be implemented throughout the life of the project.

Task Group 200 – Wastewater Treatment Plant Flow Summary

MKN will review and compile historical WWTP flow data from 2013 - 2023, collect daily rainfall data from local rain gauge stations in Arroyo Grande, Grover Beach, and Oceano and prepare a detailed WWTP flow summary table and graph of average and peak WWTP flow conditions versus rainfall data. This information will be compared to the estimated flows developed in Task Group 300 and the measured flows from Task Groups 400 and 500.

Prior to the dry weather flow monitoring session, it is assumed that the District's inflow and effluent flowmeter will be calibrated.

Task Group 300 – Member Agency Baseline and Future Flow Estimates

MKN will work with the District or directly with the City of Arroyo Grande, City of Grover Beach, and Oceano Community Services District (Member Agencies) to collect historical water usage information data from 2013 - 2023. This information will be reviewed with the District's WWTP flow data to determine the percentage of water that returns to the collection system as wastewater to estimate flows entering the District's trunk sewer collection system. It is assumed that the water billing data will be provided by the Member Agencies and will contain the following information (at a minimum):

- Monthly water usage by customer (2013 - 2023)
- Customer address and/or assessor parcel number
- Water usage by type (residential, commercial, irrigation, etc.)

To estimate flows entering the collection system upstream of the flow meter locations, billing addresses will be required so that user locations can be added to the District's GIS basemap. MKN has used this approach for several local agencies to validate results of flow monitoring data and identify pipes in the collection system that are being impacted by I/I.

If water billing information is not available or cannot be provided by the Member Agencies, MKN will defer to recent planning documents that contain estimated wastewater flow projections for existing conditions. The purpose of this effort is to estimate baseline dry weather flow conditions upstream of the flow meter locations and compare the estimated flows to measured reading from the flow meters.

For future wastewater flow conditions, MKN assumes that the Member Agencies will identify the location and provide an estimate of projected wastewater flows that will discharge to the trunk sewer collection system.

Task Group 400 – Member Agency Lift Station Information

MKN will work with the District or directly with the Member Agencies to request lift station pumping information during the dry weather and wet weather flow monitoring sessions. Pumping rates and duration will be required to include in the flow monitoring summary.

Task Group 500 – Dry Weather Flow Monitoring Session

Based on review of the historical WWTP influent flow data (Task Group 200) and previous flow meter installations, MKN will determine the general timeframe and placement of flow meters to capture the average flow, peak dry weather flow, and wet weather flow conditions for this project. MKN will provide support to the District to solicitate formal/informal bids for flow monitoring from up to three flow meter vendors. This will include preparation of a site plan for flow meter placement, review of bids, and recommendations for vendor selection.

MKN will coordinate with the District-selected flow monitoring consultant to place six flow meters throughout the District's trunk sewer collection system a four-week dry weather flow monitoring session. **Figure 1** shows the flow meter placement from the 2011 Inflow and Infiltration Study, which may be used for the updated study. Final placement of the flow meters for the updated study will be determined following review of flow data associated with Task Groups 200 to 400.

The purpose of the dry weather flow monitoring session will be to determine current flow conditions within the District's trunk system without the influence of wet weather conditions. The WWTP plant flow summarized in Task Group 200 and the estimated wastewater flows developed in Task Group 300 will be compared to the dry weather flow monitoring results to validate dry weather flow readings and determine potential areas of infiltration. Average daily and peak hourly flow conditions at each flow monitoring location will be calculated for the duration of the dry weather flow monitoring study.

Task Group 600 – Peak Dry Weather Flow Monitoring Session

MKN understands that the District's peak dry weather flows can be substantial and warrants monitoring peak dry weather conditions to determine average and peak hour flows within the trunk sewer collection system. MKN will coordinate with the District-selected flow monitoring consultant to place six flow meters throughout the District's trunk sewer collection system for a two-week dry weather flow monitoring session during peak dry weather conditions.

Task Group 700 – Wet Weather Flow Monitoring Session

MKN will coordinate with the District-selected flow monitoring consultant to place six flow meters throughout the District's trunk sewer collection system for an eight-week wet weather flow monitoring session. The purpose of the wet weather flow monitoring session will be to determine locations of the collection system that experience I/I during wet weather conditions. Based on the sporadic nature and volume of recent rainfall events over the past several years, an eight-week flow monitoring session is recommended to have the flow meters in place for a longer duration to increase the chance of collecting data during rainfall events.

It is recommended that the contract with the District's flow monitoring consultant include the option for relocating the meters (for a set fee) during the wet weather flow monitoring session. If I/I conditions are observed early enough during the wet weather flow monitoring session, MKN will review the data and

coordinate with the District-selected flow monitoring consultant to move selected meters from the currently proposed locations to further isolate areas of the collection system experiencing increased flow conditions. It is assumed that all flow meters will be relocated one time during the wet weather flow monitoring session.

This will provide the District will flow monitoring data results for 12 separate locations during the wet weather flow monitoring session. Measured flows will be compared to estimated flows developed in Task Group 300 for these alternative locations. Average day and peak hour flow conditions at each flow monitoring location will be calculated for the duration of the wet weather flow monitoring study.

Task Group 800 – Capacity Evaluation

Hydraulic Analysis

MKN will acquire the District's existing hydraulic model, update the trunk sewer collection system model with infrastructure improvements not currently in hydraulic model (if applicable), and load existing and future flow conditions.

MKN will coordinate with the District to define the design criteria used to: 1) evaluate the existing sewer system, 2) identify deficiencies to serve existing and future flows, and 3) develop recommended system improvements to address identified deficiencies. With an updated hydraulic model, MKN proposes to run the following simulations to identify the depth over Diameter ratio (d/D) and pipe velocities for both existing and future flow conditions:

Existing Flow Conditions:

- Dry Weather
    - Average Day Flow
    - Peak Hour Flow
- Peak Dry Weather (summer)
    - Average Day Flow
    - Peak Hour Flow
- Wet Weather (assuming wet weather peaking factor based on I/I study)
    - Average Day Flow
    - Peak Hour Flow
- Capital Improvement Projects for Existing System Deficiencies
    - Average Day Flow
    - Peak Hour Flow

Future Flow Conditions:

- Dry Weather
    - Average Day Flow
    - Peak Hour Flow
- Peak Dry Weather (summer)
    - Average Day Flow
    - Peak Hour Flow

- Wet Weather (assuming wet weather peaking factor based on I/I study)
    - Average Day Flow
    - Peak Hour Flow
- Capital Improvement Projects for System Deficiencies Resulting from Future Flows
    - Average Day Flow
    - Peak Hour Flow

MKN will use the results of the hydraulic evaluation to develop a capital improvement plan focused on addressing capacity deficiencies under existing and future flow conditions and/or implementing improvements for reducing I/I into the trunk sewer system.

Capital Improvement Plan

MKN will develop a capital improvement plan (CIP) for the existing trunk sewer collection system that will include capital projects needed to: 1) resolve existing system deficiencies (if any are identified), 2) accommodate future expansion, and 3) reduce potential I/I into the system. MKN will develop a project list identifying the size and location of required facilities, priorities, triggers, and estimated project schedules.

MKN understands that the District recently completed manhole inspections and pipeline cleaning of the existing trunk sewer system (2019-2020). We will review the results of the inspections and determine if there are existing facility conditions that require improvement. Recommended condition-based improvements will be included in the CIP (if warranted based on the inspections).

Estimated construction costs for the improvements will be developed based on current market cost information and recent local bids for similar projects. The costs will also include estimates for project administration, design, construction management and project contingency. MKN will develop overall figures depicting the locations of the recommended CIP projects for existing and future conditions and individual CIP sheets showing locations of the CIPs.

MKN will submit a draft CIP to the District for review and comment and meet with the District to review the draft CIP. Comments from the review and meeting will be incorporated into the final CIP which will form part of the Capacity Study.

Capacity Study

A draft version of the Capacity Study will be compiled to summarize the efforts and results for the tasks described herein. After a consolidated set of comments are received from the District, MKN will revise the draft Capacity Study and present an overview of the findings and recommendations during a review meeting with the District. Comments on the draft Capacity Study will be integrated into the final capacity study. One (1) hard copy and a PDF electronic copy of the final Capacity Study will be provided to the District. At a minimum, the Capacity Study will include the following:

- An overview of historical District WWTP flows and rainfall;
- Baseline water usage and wastewater flow projections for the Member Agencies;
- Location and pumping rates of Member Agency lift stations;

- A summary of the dry weather flow monitoring results including tables and graphs of results (including average daily and peak hourly flows)
- A summary of the peak dry weather flow monitoring results including tables and graphs of results (including average daily and peak hourly flows)
- A summary of the wet weather flow monitoring results including tables and graphs of results (including average daily and peak hourly flows)
- Recommendations for additional flow monitoring (if necessary)
- Hydraulic modeling and capacity evaluation
- Recommended Capital Improvement Program

Task Group 900 – Preparation of Sewer System Management Plan Update

The following describes the tasks required to prepare an update to the District's 2014 SSMP that complies with Order No. 2022-0103-DWQ.

Data Collection and Review

As part of the SSMP update, MKN will request and review the following information:

- Current District SSMP (August 2014)
- Notice of Applicability for enrollment under Order 2022-0103-DWQ
- 2-year cycle Audits (as available)
- Maintenance schedules and logs
- Annual compliance reports (2014 to 2023) as submitted to the RWQCB
- Sanitary sewer overflow (SSO) records from California Integrated Water Quality System (CIWQS) database
- Portable equipment inventory
- Fats Oil & Grease (FOG) program information

MKN may require additional data and documents to complete the update and will submit additional data requests to the District as needed to assist District staff in gathering information.

SSMP Element Update

The SSMP includes 11 elements (or sections) that are required to be revised if any changes have occurred since the last approved/certified plan. The elements include the following:

- Element 1 - Goals
- Element 2 - Organization
- Element 3 - Legal Authority
- Element 4 - Operation and Maintenance
- Element 5 - Design and Performance Standards
- Element 6 - Overflow Emergency Response Plan
- Element 7 - Fats, Oils & Grease Control Program
- Element 8 - System Evaluation and Capacity Assurance Plan
- Element 9 - Monitoring, Measurement and Program Modifications
- Element 10 - Sewer System Management Plan Audits

- Element 11 - Communication Plan

MKN will update each section of the existing SSMP and each of the mandatory elements of the SSMP identified in Order No. 2022-0103-DWQ. Note that Element 6 includes updating the District's Sanitary Sewer Overflow Response Plan (which will be an appendix of the SSMP). Furthermore, updating Element 10 will require inclusion of an audit checklist for future audits to be performed every other year.

The updates will also include preparing the corresponding exhibits, which are anticipated to be exhibit of sewer collection system showing all gravity lines, manholes, lift station facilities, and force mains.

Project Meetings

MKN will attend two progress meetings with the District to collect the required documentation to complete the SSMP update. It is assumed project meetings will be held at the District's office or via web meeting.

SERVICES NOT INCLUDED

This scope of work excludes all services not explicitly mentioned above, including field investigation of infrastructure during rainfall events. MKN can provide these services upon request.

SCHEDULE

MKN will work with the District to develop a project schedule once a flow monitoring consultant is selected for the project.

BUDGET

MKN proposes to complete this work on a time and materials basis with a budget not-to-exceed $99,488 as shown in the attached fee estimate. MKN's hourly rate schedule is subject to change depending on the timing of when the work is performed. We hope this proposal meets your expectations and we look forward to answering any questions you may have.

Sincerely,

Eileen Shields, PE
Operations Manager

Robert Lepore, GISP
Senior Planner

Attachments:

Budget Spreadsheet

2023 Fee Schedule

Figure 1 Flow Monitoring Map

Proposal for Engineering Services
Trunk Sewer Collection System Capacity Evaluation
and Sanitary Sewer Management Plan Update

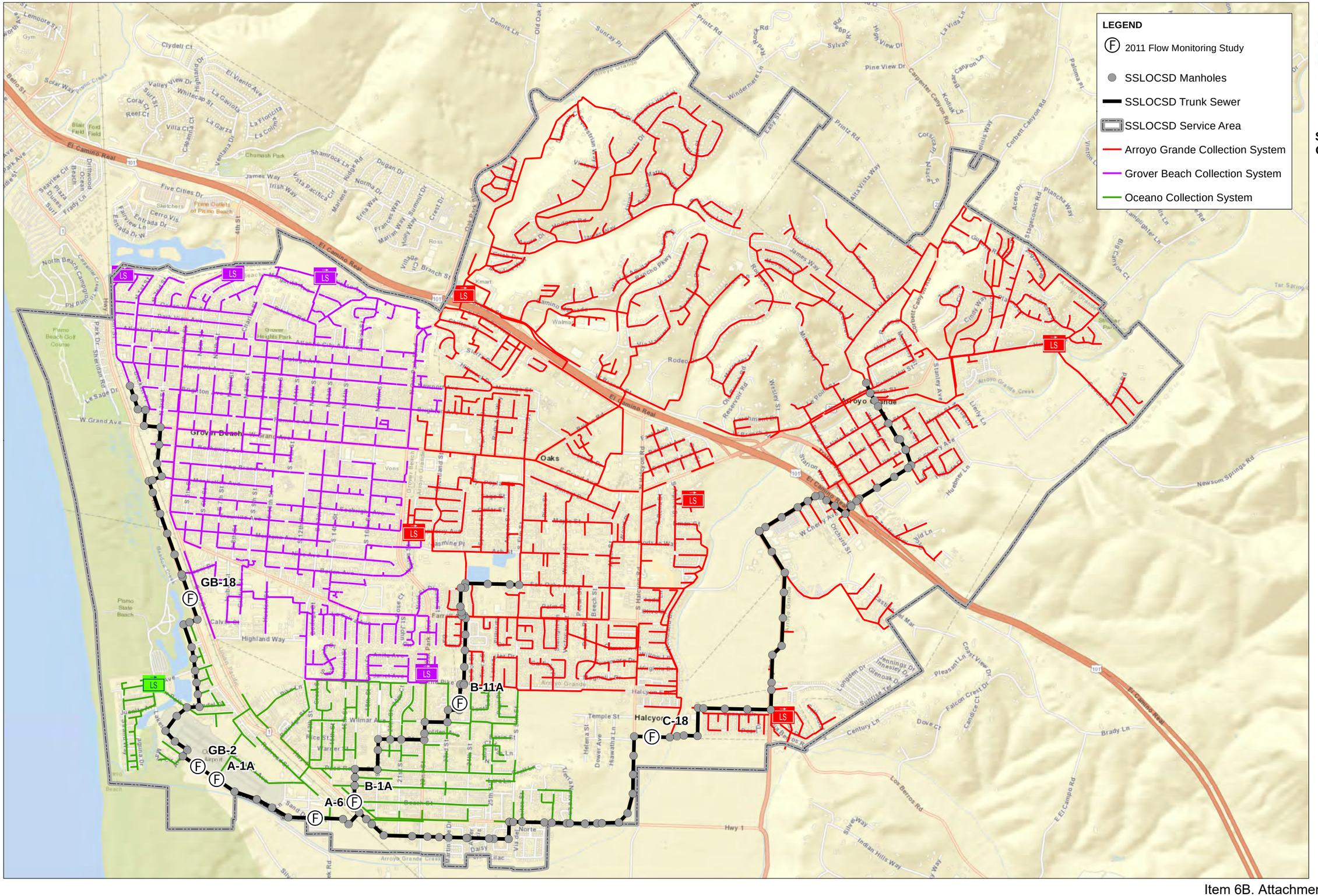
	Project Director	Principal Engineer	Senior Planner	Assistant Engineer II	Total Hours (MKN)	Labor (MKN)	ODCs (MKN)	Total Fee
Hourly Rates	255	230	190	145				
Task Group 100 – Meetings, Project Management, and QA/QC								
Meetings (total of 8)	8		8	12	28	$5,300	$ 159	$ 5,459
QAQC		16			16	$3,680	$ 110	$ 3,790
Subtotal	**8**	**16**	**8**	**12**	**44**	**$ 8,980**	**$ 269**	**$ 9,249**
Task Group 200 – Wastewater Treatment Plant Flow Summary								
Review and compile WWTP data			4	16	20	$3,080	$ 92	$ 3,172
Review and compile rainfall data			4	8	12	$1,920	$ 58	$ 1,978
Subtotal	**0**	**0**	**8**	**24**	**32**	**$ 5,000**	**$ 150**	**$ 5,150**
Task Group 300 – Member Agency Baseline Flow Estimates								
Acquire billing data			2	6	8	$1,250	$ 38	$ 1,288
Review and compile usage data			4	8	12	$1,920	$ 58	$ 1,978
Estimate wastewater flow based on usage data	2		6	16	24	$3,970	$ 119	$ 4,089
Review Member agencies future wastewater flow projections			4	8	12	$1,920	$ 58	$ 1,978
Assign usage data to District basemap			4	24	28	$4,240	$ 127	$ 4,367
Subtotal	**2**	**0**	**20**	**62**	**84**	**$ 13,300**	**$ 399**	**$ 13,699**
Task Group 400 – Member Agency Lift Station Information								
Review and compile lift station data			4	8	12	$1,920	$ 58	$ 1,978
Subtotal	**0**	**0**	**4**	**8**	**12**	**$ 1,920**	**$ 58**	**$ 1,978**
Task Group 500 – Dry Weather Flow Monitoring Session								
Soliciting formal/informal bids for flow monitoring			4	6	10	$1,630	$ 49	$ 1,679
Review and process flow monitoring data	2		8	16	26	$4,350	$ 131	$ 4,481
Subtotal	**2**	**0**	**12**	**22**	**36**	**$ 5,980**	**$ 179**	**$ 6,159**
Task Group 600 – Peak Dry Weather Flow Monitoring Session								
Review and process flow monitoring data	2		8	16	26	$4,350	$ 131	$ 4,481
Subtotal	**2**	**0**	**8**	**16**	**26**	**$ 4,350**	**$ 131**	**$ 4,481**
Task Group 700 – Wet Weather Flow Monitoring Session								
Review and process flow monitoring data	4		10	24	38	$6,400	$ 192	$ 6,592
Subtotal	**4**	**0**	**10**	**24**	**38**	**$ 6,400**	**$ 192**	**$ 6,592**
Task Group 800 – Capacity Evaluation								
Hydraulic model update			16	24	40	$6,520	$ 196	$ 6,716
Capacity evaluation	2		10	24	36	$5,890	$ 177	$ 6,067
Capital improvement plan	6	16	8	24	54	$10,210	$ 306	$ 10,516
Draft capacity study	2		16	24	42	$7,030	$ 211	$ 7,241
Final capacity study	2		8	12	22	$3,770	$ 113	$ 3,883
Subtotal	**12**	**16**	**58**	**108**	**194**	**$ 34,423**	**$ 1,003**	**$ 34,423**
Task Group 900 – Preparation of Sewer System Management Plan								
Data Collection and Review			4	8	12	$1,920	$ 58	$ 1,978
SSMP Element Update	4	2	24	64	94	$15,320	$ 460	$ 15,780
Subtotal	**4**	**2**	**28**	**72**	**106**	**$ 17,240**	**$ 517**	**$ 17,757**
TOTAL BUDGET	**34**	**34**	**156**	**348**	**572**	**$97,593**	**$ 2,898**	**$ 99,488**

2023 FEE SCHEDULE FOR PROFESSIONAL SERVICES

ENGINEERS AND TECHNICAL SUPPORT STAFF	
Engineering Technician	$90/HR
Administrative Assistant	$100/HR
CAD Technician I	$118/HR
CAD Design Technician II	$140/HR
Senior Designer	$155/HR
Assistant Engineer I	$125/HR
Assistant Engineer II	$145/HR
GIS Specialist	$150/HR
Planner	$170/HR
Senior Planner	$190/HR
Project Engineer I/ Senior Scientist	$170/HR
Project Engineer II	$180/HR
Senior Project Engineer I	$195/HR
Senior Project Engineer II	$200/HR
Project Manager	$205/HR
Principal Engineer	$230/HR
Project Director	$255/HR
CONSTRUCTION MANAGEMENT SERVICES	
Construction Inspector	$173/HR
Assistant Resident Engineer	$178/HR
Resident Engineer	$196/HR
Construction Manager	$214/HR
Principal Construction Manager	$252/HR

Routine office expenses such as computer usage, software licenses and fees, telephone charges, office equipment and supplies, incidental postage, copying, and faxes are included as a 3% fee on labor cost.

DIRECT PROJECT EXPENSES	
Outside Reproduction	Cost + 10%
Subcontracted or Subconsultant Services	Cost + 10%
Travel & Subsistence (other than mileage)	Cost
Auto Mileage	Current IRS Rate - $.625/mi.



SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT

FLOW MONITORING STUDY

FIGURE 1: FLOW MONITORING MAP

SCALE: NTS

SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT

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Staff Report

To: Board of Directors
From: Jeremy Ghent, District Administrator; Mychal Jones, Plant Superintendent
Date: September 6, 2023

Subject: **DISTRICT ADMINISTRATOR AND PLANT OPERATIONS REPORT**

This report represents ongoing information on the latest District staff activities on major capital projects and studies, programmatic initiatives, regional collaboration, miscellaneous activities, and Plant Operations. *Updates since the last report are provided in italics below:*

Capital Projects:

Redundancy Project:

- *Several operational aspects of the project are delayed.*
- *None of the new process can be brought online without the secondary clarifier.*
- *Electrical work and site grading continue.*
- *Paving repairs are upcoming*

Misc:

- *District Staff continues to meet with Central Coast Blue Project Team*
- *Staff is meeting with Wallace Group, LAFCO, and OCSD to discuss taking wastewater from the Pacific Dunes RV Resort located near the treatment plant site, just south of AG Creek.*

Plant Tours:

- *None*

Tentative Items:

- *Update on Secondary Clarifier Construction Issue (October 4th)*
- *Regular Business*

Plant Operations Report

During the reporting period of July 1st- July 31st there were no violations of the District's National Pollutant Discharge Elimination System (NPDES) Permit to report. All process values were within Permit limitations.

Monthly Plant Data for July 2023

July 2023	INF Flow MGD	INF Peak Flow MGD	INF BOD mg/L	EFF BOD mg/L	BOD % Removal	INF TSS mg/L	EFF TSS mg/L	TSS % Removal	Fecal Coliform MPN/100 mL	Chlorine Usage lbs/day
Low	2.18	3.1	360	4.0		380	24.0		4.5	250
High	2.4	4.2	582	38.8		597	40.0		79	638
July 2023 AVG	2.28	3.45	452	22.7	95.0	492	30.4	93.8	29	408
July 2022 AVG	2.15	3.28	480	31	93.5	448	30	93.3	312	222
Limit	5.0			40/60/90	>80		40/60/90	>80	2000	

Operation and Maintenance Tasks

- Checked and marked underground service alerts
- Duperon control panel A/C unit installed by JD Bardo
- Centrifuge vibration absorber pads installed
- Maintained and monitored Aeration Basins
- Set up and prepped RDT tie-in west side H&M building, return to normal operation
- Prepped RDT tie-in east side H&M building, return to normal operation
- Assisted fire crew with brush disposal
- Replaced Strainer Basket, install new one
- Transferred water from A-Bay 1 to A-Bay 2
- Removed blockage at Grit King
- Fence line clearing by CMC fire crew
- Rinsed, labeled, and stored chemical totes
- Rebuilt Amiad filter pump gearbox
- Disposed of old hoses and replaced with new
- Installed new signs at front gate
- Replaced Boiler air filter

Work Orders Completed

- Amiad filter maintenance
- Monthly FFR maintenance, cleaning, and sampling
- Duperon Mechanical Barscreen maintenance
- Effluent pumps 1&2 maintenance
- Effluent junction box
- Water Champ maintenance
- Final clarifier drive maintenance

- Monthly Maintenance 6” Trash pump
- Monthly Safety walk
- Primary Clarifier 1&2 monthly maintenance

Preventative Maintenance

- Inspection and cleaning of Digester vacuum/pressure relief valves
- Forklift monthly maintenance
- Replaced desiccators in equipment control panels
- Test ran Emergency Generator and Emergency Bypass Pump
- De-ragged Primary Clarifier sludge pumps
- Rinsed ORP probes
- Flushed plant sump pumps
- Primary Clarifiers algae control
- Monthly cart maintenance
- Loader preventative maintenance
- Calibrated various plant chemical dosing pumps
- Algae control at Secondary Clarifier
- Verified rotation time of FFR distributor arms
- Rotated headworks Influent wet well level sensors
- Ran street sweeper
- Drying bed maintenance

Training

Staff participated in training on:

- Aerzen Blowers
- New OIT staff members continued shadow training with Operations and Lab staff

Call Outs

- July 1, 2023, at 11:30 PM – High Digester #2 sump alarm. Upon arrival, Operations staff performed a visual inspection to confirm the high level in Digester #2 sump. The operator began to wash down the sump and pump down manually. Monitored until normal operation returned.
- July 4th, 2023, at 12:52 AM – High Digester #2 sump alarm. Upon arrival, Operations staff performed a visual inspection to confirm high level in Digester #2 sump. Operations staff began to wash down the sump and pump down manually. Monitored until normal operation returned.
- July 11th, 2023, at 11:50 PM – High ORP alarm. Upon arrival, Operations staff observed and ensured the system was back to normal following the alarm. Operations continued to monitor the system prior to resetting alarm.
- July 16, 2023, at 5:15 AM – Low pressure reclaimed water. Operations staff bypassed the filter, pressure returned to normal, and alarm was reset.
- July 28, 2023, at 2:30 AM – Power outage to plant. Upon arrival, Operations staff checked all plant processes, monitored, and reset alarms as necessary. Power was restored at 4:30 AM.

2023 Non-Serious Violations

- February 15, 2023 – Daily Maximum Fecal Coliform
  EXPIRED August 14, 2023
- February 21, 2023 – Daily Maximum Fecal Coliform
  EXPIRED August 20, 2023
- April 20, 2023 – Daily Maximum Fecal Coliform
  This exceedance expires October 19, 2023.

Non-serious (also known as chronic) violations are subject to a mandatory minimum penalty of $3,000 each when four or more occur in any period of six consecutive months (period commencing on the date that one of the violations occurs and ending 180 days after that date). The first three violations in that period are not assessed a mandatory minimum penalty.

Staff