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#### 1. PURPOSE OF PROGRAM PLAN

The purpose of this Water Quality Monitoring Program Plan (WQMP or Plan) is to implement the recent requirements for sampling of sanitary sewer overflows (SSOs) greater than 50,000 gallons that reach surface waters. This plan conforms to the State Water Resources Control Board Waste Discharge Requirements Order No. 2006-0003-DWQ, Section D.7(v) and Monitoring and Reporting Program (MRP) Section D, Water Quality Monitoring Requirements issued by executive order number WQ 2013-0058-EXEC effective on September 9, 2013. This WQMP provides the Seaside County Sanitation District (District) policies and procedures to assure consistent conformance to the regulatory requirements and to establish procedures for District staff and contractors in their responses to large releases of sanitary sewage that reach surface waters. This WQMP is consistent with and supplemental to the District Overflow Emergency Response Plan, Element VI of its SSMP. Finally, this document will be used to coordinate training for the District's new employees and regular refresher training for existing employees.

This Plan is also used as a guideline for monitoring and sampling requirements that are self-imposed or may be imposed upon the District from citizen suits under the Clean Water Act (CWA) resulting in settlement agreements, stipulated orders or consent decrees that can require monitoring and sampling of sanitary sewer overflows of any kind or size. It should be noted, however, that this Plan is specifically tailored to meet the requirements of the SWRCB and any lesser requirements for SSOs less than 50,000 gallons and or specifically cited in settlement agreements, stipulated orders or consent decrees, still remain in effect and are not enhanced by this Plan. This Plan establishes procedures for the identification of sampling locations, protocols for the proper collection of samples, the chain of custody for sample collections, the handling of samples, the reporting and recordkeeping to assure the legal integrity of monitoring for compliance with regulatory requirements. The plan will also establish policies and procedures that will be used to assure proper coordination between the taking and testing of samples, as well as assure that samples taken will satisfy the local regulatory agency's Basin Plan and the unique character of the District's local service area and surface waters.

This Plan is intended to establish protocols for all sampling including when, where and how; establish the required water quality sample analyses that will be conducted; identify the access and safety requirements related to sampling considerations; and identify any local concerns that this monitoring plan should address. In addition, the Plan establishes the requirements for equipment calibration, notification requirements related to an overflow, recordkeeping requirements, staff training issues and requirements for regular reviews and audits. Finally, all District forms used for water quality monitoring are included and available for use in any SSO incident.

#### 2. **DEFINITIONS**

The following definitions and acronyms are used in this Plan:

- BACTERIA Probaryotic microorganisms typically a few micrometers in length, with shapes from spheres to rods and spirals
- CalOES State of California Office of Emergency Services
- CALOSHA California Division of Occupational Safety and Health
- CFR Code of Federal Regulations
- CFS Cubic feet per second

- CIWQS California Integrated Water Quality System
- CSRMA California Sanitation Risk Management Association

CWA	Clean Water Act
DH2O	Distilled Water
DEET	N,N-Diethyl-meta-toluamide
DOHS	California Department of Health Services
E. Coli	Escherichia coli (bacteria)
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
Field QC	Field Quality Control
GPM	Gallons per minute
GWDR	General Waste Discharge Requirements or WDR
GIS	Geographic Information System
LIMS	Laboratory Information Management System
LRO	Legally Responsible Official
mg/l	Milligrams per liter
ml	Milliliter
MPN	Most Probable Number
MRP	Monitoring and Reporting Program
NH3	Ammonia
NH3-N	Ammoniacal Nitrogen
NPDES	National Pollution Discharge and Elimination System
OERP	Overflow Emergency Response Plan
OES	See CalOES
PPE	Personal Protective Equipment
ppm	Parts per Million
QA/QC	Quality Assurance/Quality Control

RWQCB Regional Water Quality Control Board (Region 3, Central Coast)

SOP Standard Operating Procedure

SSC Sewer Service Charge

- SSMP Sanitary Sewer Management Plan
- SSO Sanitary Sewer Overflow
- SSO GWDR Sanitary Sewer Overflow General Waste Discharge Requirements

#### SURFACE WATER

All waters whose surface is naturally exposed to the atmosphere; for example, rivers, lakes, reservoirs, ponds, streams, impoundments, seas, estuaries, etc., and all springs, wells, or other collectors directly influenced by surface water.

- SWRCB State Water Resources Control Board
- WQMP Water Quality Monitoring Plan
- WQ Water Quality
- WDR Waste Discharge Requirements
- VOC Volatile Organic Compound

#### 3. **RESPONSIBILITY**

The District shall designate responsibility for all WQMP roles to appropriate classifications in the District's organizational structure to assure conformance of all activities for the monitoring of SSOs greater than 50,000 gallons reaching surface waters (Category 1 SSO), to reduce potential liability, protect public-health, and to assure those responsible for this Plan are trained in their roles and responsibilities for the performance of proper protocols. It is further recognized that the proper application of this Plan will assure that all monitoring can withstand regulatory or legal scrutiny of the State, Regional Board, or from the actions of a citizen lawsuit. These roles and responsibilities are intended to be compliant with WDR Sections D.13 (vi), G and Section C.5 and D of the September 9, 2013 MRP.

The following table contains the roles and responsibilities as assigned by the District to individual classifications or service contractors of the District:

Roles and Responsibility	Responsible Classification
Provide and document regular training on WQMP for all District classifications that have a role or responsibility in the WQMP and identified herein	District Engineer & Maintenance & Utilities Superintendent
Identification and assessment of potential impacts to local areas with surface waters that may require WQMP (i.e. aerial crossings, creeks, waterways, rivers, bays, estuaries, etc.)	District Engineer or Maintenance & Utilities Superintendent

#### Seaside County Sanitation District Water Quality Monitoring Plan

Roles and Responsibility	Responsible Classification
Certification of calibration of sampling equipment and maintenance of calibration records	Senior Engineer Maintenance & Utilities Supervisor
Determination of specific sampling protocols and analytic methods to be used for the District- required testing	District Engineer or Maintenance & Utilities Superintendent
Determination of appropriate bacterial indicators for sampling	District Engineer or Maintenance & Utilities Superintendent
Quarterly completion of the monitoring and sampling kit checklist from Appendix E	Maintenance & Utilities Supervisor or Senior Engineer
Annual review of all standard operating procedures related to this WQMP especially the Sample Collection procedures	Senior Engineer or Maintenance & Utilities Superintendent
Decision to invoke a WQMP and direct the monitoring program to conclusion	District Engineer or Maintenance & Utilities Superintendent
Selection of sampling locations	District Engineer, Senior Engineer or Maintenance & Utilities Superintendent
Coordination of field sampling	Maintenance & Utilities Supervisor, Maintenance & Utilities Superintendent or Senior Engineer
Conduct field sampling per District protocols	Any properly trained Maintenance & Utilities or Engineering staff
Authorization and direction for placement of public notifications and signage	Any properly trained Maintenance & Utilities or Engineering staff
Photographs of sampling and signage placed to protect public health and safety	Any properly trained Maintenance & Utilities or Engineering staff
Preparation of Chain of Custody for all samples taken including proper labeling	Any properly trained Maintenance & Utilities or Engineering staff
Determination of spill travel time, if applicable.	District Engineer, Senior Engineer or Maintenance & Utilities Superintendent or their designee
Review and evaluate lab results for termination of sampling and to determine the nature and impact of the release	Associate Engineer or Maintenance & Utilities Superintendent
Decision to terminate sampling	District Engineer and Senior Engineer
Preparation of detailed sampling location map	Senior Engineer and Maintenance & Utilities Superintendent
Conduct sample analysis	Monterey Regional Lab or Contracted Lab
Preparation of water quality sampling activities narrative for Technical Report	Senior Engineer or Associate Engineer and Maintenance & Utilities Supervisor
Review and Approval of Technical Report	District Engineer
Certification and placement of Technical report in the CIWQS spill reporting system.	District Engineer or Senior Engineer
Failure Analysis Investigation of all water quality monitoring from the SSO event to determine all necessary changes or modifications to the WQMP	District Engineer or Maintenance & Utilities Superintendent
Audits of the WQMP as required by District SSMP Element 10, Audit.	Senior Engineer
Management of Change responsibilities for the WQMP and all associated forms and documents required for use during an incident	Senior Engineer

It is recommended that this list of responsibilities be placed on a laminated card and kept in the Monitoring and Sampling Kit for easy access during an SSO sampling incident.

#### 4. AUTHORITY AND REFERENCES

The authority and or requirements for the monitoring and sampling of sanitary sewer overflows are contained in the following:

- 1. State Water Resources Control Board Waste Discharge Requirements Order No. 2006-0003-DWQ, Section D.7 (v).
- 2. State Water Resources Control Board Monitoring and Reporting Program (MRP) Sections C.5 D, Executive Order number WQ 2013-0058-EXEC effective September 9, 2013
- 3. Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition, American Public Health Organization et al.
- 4. Clean Water Act Sections 301(a), 304(h), and 501(a).
- 5. Code of Federal Regulations, Title 40, Part 136.

There are a number of applicable references that are available to assist with the Water Quality Monitoring Program as follows:

- A. Basin Plan of the Regional Water Quality Control Board (Central Coast, September 2017)
- B. Best Management Practices for Sanitary Sewer Overflow (SSO) Reduction Strategies, Central Valley Clean Water Associates and Bay Area Clean Water Agencies, December 2009
- C. District Overflow Emergency Response Plans
- D. Field Guide for Surface Water Sample and Data Collection, Air Program, USDA Forest Service, June 2001
- E. Standard Operating Procedures for Surface Water Quality Sampling, Arizona Department of Environmental Quality, Surface Water Section, September 2012.
- F. Surface Water Sampling AF.R3, Document Number SESDPROC-201-R3, Region 4, Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia, February 28, 2013
- G. Water Quality Control Plan Ocean Waters of California (California Ocean Plan), revised 2019

#### 5. IDENTIFICATION OF LOCAL SURFACE WATERS AND CHARACTERISTICS

An important element of any water quality monitoring program is the proper and thorough understanding of the service area and the various challenges the geography and sanitary sewer infrastructure of the service area present for the potential of wastewater reaching surface waters or storm water facilities. By evaluating the areas of concern in a service area such as lakes, rivers, dry creeks, aerial pipeline crossings over water ways and all storm water related infrastructure, the District can be better prepared to timely respond to any SSO reaching surface waters and to minimize the impacts of an SSO in or around local surface waters and storm water infrastructure.

#### A. Surface Waters of Concern

For the purposes of this Plan, surface waters are defined as all waters whose surface is naturally exposed to the atmosphere, for example, rivers, lakes, reservoirs, ponds, streams, impoundments, seas, estuaries, etc., and all springs, wells, or other collectors directly influenced by surface water. In addition, the District will also identify and evaluate areas where collection system pipelines and force mains cross over or under waterways as these crossings can require

additional resources and equipment to properly address any SSO from these collection system assets.

Surface waters of concern are those surface waters within the District's service area that may be impacted by a sanitary sewer overflow from the District's sanitary sewer collection system. Prior planning, review and evaluation of potential failure mechanisms can help minimize any potential impacts to surface waters or storm water infrastructure when and if the WQMP must be invoked. Any review of these important areas of potential surface water contamination in advance of an SSO should allow the District to be better prepared to respond to an SSO with the proper equipment and a better understanding of the procedures that may need to be invoked during the SSO such as flow rate of a creek or stream, and potential areas of significant environmental concern such as shell fish beds or fish habitats.

The following (Table 5.1) are the surface waters of concern within the District's jurisdiction:

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In Hydrology, the term is generally applied	A shallow backwater inlet that is commonly exposed at low tide. A general term for a body of flowing water; natural water course containing water at least part of the year. In Hydrology, the term is generally applied to the water flowing	er, natural water cour			
	de.		rm for a body of flowing wate	A general te	Stream:
		nly exposed at low tid	A shallow backwater inlet that is commonly exposed at low tide	A shallow b	Slough:
	ries, streams, brooks, etc.	iver including tributar	Relating to, formed by, or resembling a river including tributaries, streams, brooks, etc	Relating to,	Riverine:
	er body.	under a surface wate	Crossing of a pipe or force main over or under a surface water body	Crossing of	Pipe crossing:
			Streams which flow continuously.		Perennial streams (PS):
			ater	Sea, salt water	Ocean:
deposition. This includes what are sometimes referred to as ephemeral	Any nonpermanent flowing drainage feature having a definable channel and evidence of scour or depositio streams if they meet these two criteria.	ure having a definab	Any nonpermanent flowing drainage feat streams if they meet these two criteria.	Any nonper streams if th	Intermittent stream:
		nd lakes.	Open wetlands that occur along rivers and lakes	Open wetlai	Freshwater marsh:
iter table.	Ephemeral Streams (ES): Streams which flow only in direct response to precipitation and whose channel is at all times above the water table	se to precipitation ar	ich flow only in direct respon	<b>:S)</b> :Streams wh	Ephemeral Streams (E
	ollowing rainstorms.	ng and immediately f	A streambed that carries water only during and immediately following rainstorms	A streambe	Dry Wash:
ansport storm water as part of a mu	For the purposes of complying with the Statewide Sanitary Sewer Order, (1) a man-made canal used to transport storm water as part of a municipal separate storm sewer system, or (2) an intermittent or perennial stream bed.	statewide Sanitary Se erennial stream bed.	For the purposes of complying with the Statewide Sanitary S sewer system, or (2) an intermittent or perennial stream bed.		Drainage Channel (DC):
to divert floodwater from the main channel to minimize flood damages.	<ol> <li>An artificial channel constructed around a town or other point of high potential flood damages to divert f</li> <li>A channel carrying water from a diversion dam.</li> </ol>	nd a town or other porsion dam.	<ol> <li>An artificial channel constructed around a town</li> <li>A channel carrying water from a diversion dam.</li> </ol>	(1) An artific (2) A chann	Diversion channel:
	A long narrow trench or furrow dug in the ground, as for irrigation, drainage, or a boundary line.	e ground, as for irriga	w trench or furrow dug in the	A long narro	Ditch:
	lder a road.	or runoff to pass un	A buried pipe that allows streams, rivers, or runoff to pass under a road.	A buried pip	Culvert (CU):
<u>.</u>	An area that contains continuously or periodically flowing water that is confined by banks and a stream bed.	riodically flowing wat	t contains continuously or pe	An area tha	Channel (CH):
		ting water.	A constructed open channel for transporting water.	A constructe	Canal:
s directly out of the ground, as from not formed by tributaries, though	A natural stream of water, smaller than a river or creek; especially a small stream or rivulet which breaks directly out of the ground, as from a spring or seep; also, a stream or torrent of similar size, produced by copious rainfall, melting snow and ice, etc.; a primary stream not formed by tributaries, though often fed below its source, as by rills or runlets; one of the smallest branches or ultimate ramifications of a drainage system.	a river or creek; esp ed by copious rainfall branches or ultimate	ream of water, smaller than rrent of similar size, produce runlets; one of the smallest	A natural st stream or to as by rills or	Brook:
andards for municipal, domestic, and irrigation uses. Considerably less to ocean salts). Water containing between 1,000-4,000 parts per million aline Water. The term should not be applied to inland waters.	Generally, water containing dissolved minerals in amounts that exceed normally acceptable standards for municipal, domestic, and irrigation uses. Considerably less saline than sea water. Also, Marine and Estuarine waters with Mixohaline salinity (0.5 to 30 due to ocean salts). Water containing between 1,000-4,000 parts per million (PPM) Total Dissolved Solids TDS). The term brackish water is frequently interchangeable with Saline Water. The term should not be applied to inland waters.	inerals in amounts t Estuarine waters wit term brackish water	vater containing dissolved m sea water. Also, Marine and Dissolved Solids TDS). The	Generally, v saline than (PPM) Total	Brackish Water:
	ed by a buildup of peat.	ned and characterize	Freshwater wetlands that are poorly drained and characterized by a buildup of peat	Freshwater	Bog:
Trip/fall, poison oak, drowning	Limited, vegetation,	=	ES, DC, CU	Creek	Del Rey Oaks C
Trip/fall, drowning	Limited, vegetation,	=	ES, DC, CU		Roberts Lake
Trip/fall, drowning	Limited, vegetation,	=	ES, DC, CU		Laguna Grande
Trip/fall, drowning	Limited	Not applicable	Ocean		Monterey Bay
		Monitoring?	(see legend, below)		Name

#### 6. LAB SELECTION

#### A. Analytical Lab

Samples collected for monitoring purposes will be analyzed at Monterey Bay Analytical Services. The laboratory is accredited through California's Department of Public Health Environmental Laboratory Accreditation Program (ELAP). ELAP provides evaluation and accreditation of environmental testing laboratories to ensure the quality of analytical data used for regulatory purposes to meet the requirements of the State's drinking water, wastewater, shellfish, food, and hazardous waste programs. The State agencies that monitor the environment use the analytical data from these accredited labs. The ELAP-accredited laboratories have demonstrated capability to analyze environmental samples using approved methods. The lab at Monterey One Water will serve as a backup laboratory.

#### B. Getting Samples to the Lab

At all times, sample hold times identified below will be observed in accordance with Section 7.0. Once samples are collected and coordination is made with the laboratory to receive the samples, they will be transported to the laboratory by District staff.

#### C. Lab Contact Info

#### Primary

Name: Monterey Bay Analytical Services

Contact: David Holland, President/Lab Director

Address: 4 Justin Court, Suite D, Monterey, CA

Hours Samples Are Accepted: M-F 8 AM to 5:00 PM except holidays

Phone: (831) 875-6227

Alternate or After Hours Phone: (831) 277-1352

#### Secondary

Name: Monterey Bay Water One Laboratory

Contact: Patrice Parson, Lab Supervisor

Address: 5 Harris Ct., Bldg. D Monterey, CA 95134

Hours Samples are Accepted: M–F 8:00AM to 3:00PM except holidays (after hours by arrangement)

Phone: (831) 883-1118 or 831-883-6121

Alternate or After Hours: 831-422-1001

#### 7. SAMPLING PARAMETERS

#### A. <u>Required Sampling Parameters</u>

The RWQCB Basin Plan and/or NPDES permit set the water quality standards against which one can judge the levels of impacts of an SSO on surface waters.

In accordance with the SWRCB Revised MRP WQ 2013-0058, the following parameters will be sampled:

#### 1. Ammonia

Ammonia-N, is a key indicator of the extent of the gross pollution of the receiving water from a SSO. Untreated wastewater or partially-treated wastewater is generally high in ammonia-N (typical 20-30 mg/L). In comparison, the natural background concentration of most surface waters is low, typically, less than 0.5 mg/L. Therefore, the elevated concentration of ammonia of the surface water downstream or at the site of the SSO, as compared to that upstream of the site is a reasonable indication of the extent of contamination from the SSO.

2. Bacteriological Indicator as specified in the local Basin Plan

Total coliform, fecal coliform, E coli. and enterococci count are indicators of potential public health impacts of an SSO on the receiving waters. If the concentrations of these groups of bacteria are elevated above and beyond the natural background and/or above the RWQCB Basin Plan Water Quality Standards (objective), public notification and posting may be necessary.

It should be noted that there may be non-SSO related causes of elevated bacteria in surface water, for example, animal sources, storm drain discharge, homeless encampments, private laterals, septic system/leach field malfunctions. Any or all samples taken may reflect the extent of bacterial contamination from these other sources. Sometimes the extent of the SSO may be indistinguishable from the other natural sources beyond the District's control. This is especially true when taking Source samples based on an estimated downstream location of the SSO plume (Reference Section 7F).

Generally, if the concentrations of these groups of bacteria at the downstream or at the site of impact are within the range of the non-impacted site (i.e. upstream) or levels indicated in historical background monitoring levels, the water quality impacts of the SSO are considered insignificant.

The surface water quality objectives of these groups of bacteria are shown in Table 7.1 and 7.2, below. For this District, the highest beneficial use of surface waters would be considered as contact water recreation on the Pacific Ocean and fecal coliform standard has historically been the bacteria standard used to determine compliance. Otherwise, there is no beneficial use of surface waters in any other creek within the District.

Table 7.1: V	Table 7.1: Water Quality Objectives for Coliform Bacteria <sup>a</sup>	Coliform Bacteria <sup>a</sup>
Beneficial Use	Fecal Coliform (MPN/100ml)	Enterococci (cfu/100ml)
Water Contact Recreation	Geometric Mean < 200* 90 <sup>th</sup> percentile < 400	Geometric Mean (GM) < 30 ** STV > 110 **
Shellfish Harvesting <sup>b</sup>	Median < 14 90 <sup>th</sup> percentile < 43	Median < 70 90 <sup>th</sup> percentile < 230
Non-contact Water Recreation <sup>d</sup>	Mean < 2000 90 <sup>th</sup> percentile < 4000	
Municipal Supply: <ul> <li>Surface Water<sup>c</sup></li> <li>Groundwater</li> </ul>	Geometric Mean < 20	Geometric Mean < 100 < 1.1 <sup>e</sup>

## NOTES:

- <u></u> Based on a minimum of five consecutive samples equally spaced over a 30-day period
- b. Source: National Shellfish Sanitation Program
- <u></u> test is used. Based on a five-tube decimal dilution test or 300 MPN/100ml when a three-tube decimal dilution
- <u>a</u> Source: Report of the Committee on Water Quality Criteria, National Technical Advisory Committee, 1968.
- œ (f), revised June 10, 1992, are acceptable techniques, as specified in the National Primary Drinking Water Regulation, 40 CFR, Part 1421.21 Based on multiple tube fermentation technique; equivalent test results based on other analytical
- Based on five (5) most recent samples.

\*

\*\* weekly. The STV shall not be exceeded by more than 10 percent of the samples collected in a The waterbody GM shall not be greater than the GM magnitude in any 6-week interval, calculated calendar month, calculated in a static manner (per 2019 Ocean Plan).

**Source:** Central Coastal Basin (Region 3), California Ocean Plan, 2019 revision Water Quality Control Plan (Basin Plan) California RWQCB, Central Coastal Basin September 2017

1	Fresh	Fresh Water	Salt Water
	Enterococci	E. Coli	Enterococci
Steady State (all areas)	33	126	35 /30
Maximum at:			
<ul> <li>Designated beach</li> </ul>	61	235	104/110
<ul> <li>Moderately used area</li> </ul>	68	298	124
<ul> <li>Lightly used area</li> </ul>	108	406	276
<ul> <li>Infrequently used area</li> </ul>	151	576	500

2

# Table 7.2 – U.S. EPA Bacteriological Criteria for Water Contact Recreation<sup>1, 2, 3</sup> (in colonies per 100 ml)

## NOTES:

- The criteria were published in the Federal Register, Vol. 51, No. 45 / Friday, March 7, 1986 / 8012-8016. The criteria are based on:
- ھ Cabelli, V.J. 1983. Health Effects Criteria for Marine Recreational Waters, U.S. EPA, EPA 600/1-80-031, Cincinnati, Ohio, and
- ō Dufour, A.P. 1984, Health Effects Criteria for Fresh Recreational Waters, U.S. EPA, EPA 600/1-84-004, Cincinnati, Ohio.
- Ņ The U.S. EPA criteria apply to water contact recreation only. The criteria provide for a level of supplement the current coliform objectives for water contact recreation. may be employed in special studies within this region to differentiate between pollution sources or to production based on the frequency of usage of a given water contact recreation area. The criteria
- ω Based on 2019 California Ocean Plan (refers to the second figures in the "Salt Water Enterococci" column, for Steady State and Designated Beach rows.

#### B. Sampling Parameters for Seaside County Sanitation District

- 1. Ammonia
  - Discussion: See Section 7A
  - Sample Container: Plastic/glass
  - Sample Type: Grab
  - Sample Volume Required: 200 ml. minimum
  - Hold Time: 28 days
  - Preservative: Sulfuric acid
  - Analytical Method: Method 4500-XX R and C, Standard Methods for the
    - Examination of Water or Wastewater, 21st Edition
- 2. Total Coliform, E. coli., Fecal coliform
  - Discussion: See Section 7A.2
  - Sample Container: Plastic (sterile)
  - Sample Type: Grab
  - Sample Volume Required: 100 ml. minimum
  - Hold Time: 8 hours
    - Preservative: None if waters are not chlorinated

Grab

- Analytical Method: Method 9221 B, C and E, Standard Methods for the
  - Examination of Water or Wastewater, 21<sup>st</sup> Edition
- 3. Enterococcus

•

•

- Discussion: See Section 7A.2
- Sample Container: Plastic (sterile)
- Sample Type:

Preservative:

- Sample Volume Required: 100 ml. minimum
- Hold Time: 8 hours
  - None if waters are not chlorinated
- Analytical Method: IDEXX Enterolert<sup>®</sup> Test Kit, Method 9230D, Standard Methods for the Examination of Water or Wastewater, 21st Edition

#### 8. SAMPLING EQUIPMENT AND CALIBRATION

A. Sampling Equipment Used At Seaside County Sanitation District

The following are the sampling equipment used by the District, and is detailed in Section 9G. on page 22.

- Sampling pole with fixed container
- Sampling pole with removable container
- Portable pH, temperature, and DO probes
- Sampling pail and rope
- Sample Equipment Kit containing:
  - o Ice pack
  - Waterproof pen
  - Sample labels
  - Camera
  - Sample bottles
  - Personal Protective Equipment (PPE) life jacket, gloves, hip waders &/or rubber boots, etc.
  - o Etc.
- B. Calibration and Record Keeping

Each piece of equipment is required to have an up-to-date calibration and maintenance logbook. The logbook will be maintained to have consecutively numbered pages and shall contain at least the following:

- Date
- Calibration Results
- Calibration comments
- Initials of the individual calibrating the instrument

Each instrument must be clearly identified (*e.g.*, the make, model, serial and/or ID number) to differentiate among multiple meters.

The appropriate calibration procedure must be followed pursuant to the manufacturer's recommended standard calibration operating procedure and if the instrumentation does not have an electronic program that maintains a running calibration log, then the results must be recorded in the logbook each time a piece of field equipment is used, along with the date and name/initials of the person performing the calibration.

If difficulty is encountered in calibrating an instrument, or if the instrument will not hold calibration, this information must also be recorded. Malfunctioning equipment should not be used to collect data. Steps should be taken to correct the problem as soon as possible. All equipment maintenance should be recorded in the logbook indicating what was done to correct the problem, along with the date and signature/initials of the staff person that corrected the problem.

#### 9. Sampling Procedures

A. Sample Location and Identification Procedures:

Samples will be collected by Operation staff. The most precise and accurate analytical measurements are worthless and even detrimental if performed on a sample that was improperly collected and stored, or was contaminated in the process. The purpose of sampling and analysis is to provide data that can be used to interpret the quality or condition of the water under investigation.

Unfortunately, water quality characteristics are not spatially or temporally uniform from one effluent to another. A sampling program must recognize such variations and provide a basis for compensations for their effects. The sample must be:

- 1. Representative of the material being examined;
- 2. Uncontaminated by the sampling technique or container;
- 3. Of adequate size for all laboratory examinations;
- 4. Properly and completely identified;
- 5. Properly preserved, and
- 6. Delivered and analyzed within established holding times.

These six requirements are absolutely necessary for a proper assessment of water quality.

It is impossible to establish hard and fast rules concerning sampling locations. However, the following general guidelines should be applied whenever District personnel conduct surface water sampling:

- 1. The sampling location should be far enough upstream or downstream of confluences or point sources so that the surface water and SSO volume is well mixed. Natural turbulence can be used to provide a good mixture. Always take two people for sampling.
- 2. Samples should be collected at a location where the velocity is sufficient to prevent deposition of solids, and to the extent practical, should be in straight reach having uniform flow. All flow in the reach should be represented, so divided flow areas should be avoided and samples should be taken towards the middle of the reach where feasible.
- 3. Sampler must always stand downstream of the collection vessel, and sample "into the current". Care must be taken to avoid introducing re-suspended sediment into the sample.
- 4. When sampling in the Pacific Ocean, one person should always face the Ocean (never turn their back) to watch for rip currents, hazardous surf and waves. Never enter the surf to sample if it is hazardous to do so &/or if beach is posted as unsafe due to hazardous surf or other conditions sample only when safe to do so.

B. Sample Types:

Grab samples are appropriate for the characterization of surface waters at a particular time and place, to provide information about minimum and maximum concentrations, to allow for the collection of variable sample volume.

Grab samples may be collected directly into the sample container, or a clean decontaminated intermediate container may be used if a wading sample is not possible or safe. If an intermediate container is used, when in the field, double rinse the sampling device (bucket, automatic sampler) with sample water prior to collecting the sample and be sure to discard rinse water downstream of where sample will be collected. If samples are collected in a bucket and distributed a consolidation collection container, swirl the contents of the bucket as it is being poured into the consolidation collection container to avoid settling of solids (and pour in back and forth pattern - e.g., 1-2-3-3-2-1).

- <u>Grab Sample</u>: A grab sample is defined as an individual sample collected at a given time. Grab samples represent only the condition that exists at the time the sample is collected (US EPA 1977).
- <u>Surface Grab Sample</u>: A sample collected at the water surface (i.e., skimming) directly into the sample container or into an intermediate container such as a clean bucket. A single or discrete sample collected at a single location.

Field Blanks are used to evaluate the potential for contamination of a sample by site contaminants from a source not associated with the sample collected (e.g., airborne dust, etc.). Sterile, deionized water is taken into the field in a sealed container. This is the stock water. The stock water is then poured into the sample container. The containers and sample submission forms are labeled as "Field Blank". The same template selected for the test samples should be used. Field blanks are subject to the same holding time limitations as samples. The appropriate FIELD QC box on the sample Chain of Custody form should be checked.

C. Decontamination Procedures

Removing or neutralizing contaminants from sampling equipment minimizes the likelihood of sample cross contamination, reduces or eliminates transfer of contaminants to clean areas, and prevents the mixing of incompatible substances.

Gross contamination can be removed by physical decontamination procedures. These abrasive and non-abrasive methods include the use of brushes, air and wet blasting, and high and low pressure water cleaning.

The decontamination procedure described above may be summarized as follows:

- 1. Physical removal
- 2. Non-phosphate detergent wash
- 3. Tap water rinse
- 4. Distilled/deionized water rinse
- 5. 10% nitric acid rinse
- 6. Distilled/deionized water rinse

- 7. Solvent rinse (pesticide grade)
- 8. Air dry
- 9. Distilled/deionized water rinse
- D. Sample Labeling and Chain of Custody Procedures

A sample is a physical evidence of a facility or the environment. An essential part of all enforcement investigations is that evidence gathered be properly documented. To accomplish this, the following sample identification and chain of custody procedures are established.

- 1. The method of sample identification depends on the type of measurement or analyses performed. When in-situ measurements are made, the data are recorded directly in Field Data Worksheets with identifying information, field observations, and remarks. Examples of in-situ measurements are:
  - pH
  - Temperature
  - Dissolved Oxygen
  - Stream Flow Measurement

Samples other than in-situ measurements, must be identified by a sample label. These samples are removed from the sample location and transported to a laboratory for analyses. Before removal, however, a sample is often separated into portions depending upon the analyses to be performed. Each portion is preserved in accordance with applicable procedures and each sample container is identified by a sample label.

- 2. At a minimum, the following grab samples will be collected, in duplicate:
  - Field Blank: See Section 9.B for discussion.
  - Upstream: This sample will be collected far enough upstream of the SSO's point of entry into the surface water as to be free of contaminants from the SSO. Typically, 50-feet is sufficient, but this may vary on circumstances of the spill.
  - Source: Immediate vicinity where the SSO entered the surface water. This point will
    actually be downstream of the actual SSO entry point for SSO's that have stopped
    entering the surface water to be sampled. If the SSO has stopped, calculate the
    approximate downstream distance from the original SSO location by dividing the time
    since the SSO occurred by the estimated velocity. This is the approximate
    downstream distance from the SSO discharge point to the "source" sampling location.
    - Due to possible tidal action in the surface water or other factors, another method may be used to determine the "source" location at the discretion of the Director of Engineering, Senior Engineer or Maintenance & Utilities Superintendent.
    - See Section 9.F for information on determining velocity of the surface water in order to determine the Source sample location.
  - "Downstream" of SSO: This sample will be collected far enough downstream to be representative of the water quality of the surface water after adequate mixing of the surface water and the SSO have occurred. Typically, this location will be 50-feet downstream of the Source sample, but this may vary on the size and velocity of the surface water to be sampled.

- NOTE: The terms "upstream" and "downstream" may depend on the tidal cycle if the water body is tidally influenced. Check the tide chart(s) and table at the following link: <u>http://tidesandcurrents.noaa.gov/noaatidepredictions/NOAATidesFacade.jsp?S</u> tationid=9415623.
- 3. Sample labels shall be completed for each sample, using waterproof ink. The information recorded on the sample tag/label includes:
  - Date: a six-digit number indicating the year, month, day of collection
  - Time: a four-digit number indicating military time of collection (e.g., 0954)
  - Sample Location: sampling location description as either Upstream, Source, or Downstream
  - Samplers: each sampler is identified
  - Parameter/preservative: the analysis to be conducted for the sample /sample preservation
- 4. Photos or video of each sample location will be taken, properly labeled with date, time, and view direction and a map of the photo locations completed. Photos and videos shall include relevant landmarks to identify sampling locations and their surroundings.

Due to the evidentiary nature of samples collected during enforcement investigations, possession must be traceable from the time the samples are collected until they are analyzed. To document sample possession, a Surface Water Sample Chain of Custody Record (Attachment C) must be completed. A sample is under your custody if:

- It is in your possession, or
- It is in your view, after being in your possession, or
- It was in your possession and under your control to prevent tampering, or
- It is in a designated secure area.
- 5. As few people as possible should handle samples. The person taking the samples is personally responsible for the care and custody of the samples collected until they are transferred or dispatched properly.
- 6. Samples are accompanied by a chain of custody record. When transferring the possession of samples, the individuals relinquishing and receiving will sign, date, and note the time on the record. This record documents sample custody transfer from the sampler, often through another person, to the analyst at the laboratory. The samples are typically transferred to the sample-receiving custodian at the laboratory.
- E. Safety Considerations

Personal safety of staff engaged in any fieldwork activity (e.g., in transit, walking or hiking, and any field activities while at the sample site) is of primary importance. Staff should never

place themselves in dangerous or risky situations. Any hazards that are known by field personnel should be communicated to other members of the field crew.

Fieldwork should be postponed if there is indication that engagement in the field activity could cause bodily harm. Working during lightning storms, at night, in heavy vegetation or poison oak, near aggressive wildlife or domestic animals, traversing steep or rugged terrain, unstable slopes, or creek banks, near swift moving water or potential flash flood conditions, or during snowy weather is not considered "normal risk". If any member of the field crew is uncomfortable with a reasonable self-determined hazardous field condition, it is that person's responsibility to bring this to the attention of the on-site field supervisor or their supervisor. A "reasonable self-determined hazardous field condition" is defined as other than normal risk. Supervisors shall not dismiss any person's spoken concerns that field conditions are too hazardous to complete the work assignment.

The person taking the samples must have adequate protection, including protective clothing. They must wear gloves, as protection against chemical and/or bacteriological hazards, while they are sampling or handling samples that are known or suspected to be hazardous (e.g., visible solids or sheens, downstream from sewage spills, etc.), or if hands have open wounds. The type of gloves worn shall be determined by the sampling circumstance and type of pollutants expected – for instance longer gloves are needed when samples must be taken well below the surface.

When in a boat or wading in a stream, a personal floatation device shall be worn at all times. Other protective measures shall be taken in accordance with West Valley Sanitation District safety procedures.

Upon arrival at a sampling site, safety equipment such as signs, cones, lights, etc. shall be set out as appropriate. Vehicles shall be parked in locations and directions to minimize traffic disruption and avoid sample contamination. Photos should be ultimately taken of the placement of all safety equipment and signage

The following guidelines apply to all fieldwork by District staff.

- No sample or measurement is worth the risk of injury.
- All staff shall use proper personnel protective gear as appropriate for the incident (e.g., life preservers, gloves, goggles, etc.)
- Field sampling crews should consist of at least two members unless otherwise approved by a supervisor.
- Be conscious of the whereabouts of rattlesnakes, mountain lions, and other dangerous animals.
- Open body wounds are entry sites for infection; take the necessary precautions for self-protection using appropriate PPE.
- If there is storm activity in the work area, wait for safer conditions to develop or postpone the sampling.
- Do not sample at night without approval from your supervisor.
- Do not trespass on private property, or posted restricted public lands without prior permission and or written approval from property owner or administrator.

- If strange or suspicious looking people are in the work area, either wait for them to leave or postpone the work to a later time. Do not force confrontations with strangers and back away from any confrontations with the public. Be courteous and understanding of public concerns of the situation.
- Take the necessary precautions against exposure to harmful weather conditions such as heat, wind, snow, cold, rain, etc.
- Carefully evaluate a given on-site situation to determine if the task can be performed safely.
- Wear protective footwear when entering streams.
- Do not enter the stream if the water is flowing too fast.
- When sampling in the Pacific Ocean, one person should always face the Ocean (never turn their back) to watch for rip currents, hazardous surf and waves. Never enter the surf to sample if it is hazardous to do so &/or if beach is posted as unsafe due to hazardous surf or other conditions sample only when safe to do so.

#### F. Stream Velocity Measurements

If sampling is performed after the SSO has stopped, the velocity of the impacted surface water must be determined in order to estimate SSO travel time and select an accurate Source sample location. One way to measure the SSO travel time is to use a velocity probe (such as a Global Water FP111-S Flow Probe or similar in-stream flow measurement device) to determine the rate of flow in the water body. In cases where a water velocity probe is used, the manufacturer's instructions will be followed. In cases where a probe is not available, velocity may be estimated by observation of the movement of materials (e.g., leaves, small sticks, etc.) in the affected watercourse.

#### G. Sampling Equipment

The District maintains sampling equipment located in the Engineering Trailer and at the Corporation Yard. The kit is inspected quarterly by the Maintenance & Utilities Supervisor and the Senior Engineer or their designees. Additionally, any District staff utilizing the kit is responsible for informing their supervisor of the need for decontaminating sampling equipment and field monitoring devices and or if the supplies need to be replenished.

SSO Sample Collection Equipment Inventory:

- Cooler
- Surface Water Sampling SOP (Attachment B)
- Ice Pack (stored in freezer or from ice maker at Oldemeyer Center
- 5 Ammonia sample bottles, preserved (3 for samples, 1 for Field Blanks and 1 extra in the event of contamination, spillage of the preservative or other contingency)
- 9 Coliform sample bottles (6 for samples, 1 for Field Blanks and 2 extra in the event of contamination, or other contingency)
- Field monitoring device(s) for DO, pH, and temperature (calibrated on regular basis) and extra batteries for each device
- Digital camera, with extra batteries
- Latex gloves
- Safety glasses/goggles

- Surface Water Sampling Worksheet (Attachment D)
- Sampling Pole
- Field Lights
- Waterproof Pen
- Minimum of 20 blank sample bottle labels
- Chain of Custody form (Attachment C)
- Velocity probe
- Boat and personal floatation device (if applicable)
- Hip Waders, rubber boots, life jacket
- Decontamination items: Non-phosphate detergent, distilled/deionized water, 10% nitric acid, solvent rinse.
- H. Surface Water Maps

Maps of surface waters in the Seaside County Sanitation District service area that may be impacted by an SSO are located in Attachment F.

- I. Follow Up Sampling
  - 1. Sampling will be repeated every 24 hours, or as directed by the RWQCB or Monterey County Environmental Health Services, until such time as one of the following criteria have been met:
    - The County Environmental Health Services or the RWQCB indicates follow up sampling is no longer required, or
    - Both the ammonia and bacteria levels downstream are approximately equal to or less than the upstream levels; or
    - The concentration of ammonia is at or below that of the upstream sample, or the un-ionized ammonia is below 0.025 mg/L as N; and

the concentration of total coliform levels are below the applicable acute water quality objective for the appropriate beneficial use listed in the table below.

Beneficial Use	Fecal Coliform	Enterococcus (cfu/100	
Denencial Ose	(MPN/100mL)	Estuarine and Marine	Fresh Water
Water Contact Recreation	90th percentile < 400	no sample > 110	Max at 89
Shellfish Harvesting	90th percentile < 43		
Non-contact Water Recreation	90th percentile < 4,000		

J. Surface Water Sampling SOP

The Surface Water Sampling SOP, Attachment B, provides step-by-step procedures to collect samples and deliver them for analysis in accordance with Sections 6, 7 and 9.

#### **10. NOTIFICATIONS OF SENSITIVE RECEPTORS AND REGULATORY AGENCIES**

Table 10.1 describes regulatory and other notifications that must be made in accordance with the triggers indicated:

Tab	ole 10.1 Notifications of	Sensitive Receptor	rs and Regulatory	Agencies
Contact	Trigger	Deadline	How	Person(s) Responsible
OES	If SSO is greater than or equal to 1,000 gallons and reaches or has potential to reach surface waters.	awareness of	Call Cal OES at (800) 852-7550.	LRO, or Maintenance & Utilities Superintendent
County Environmental Health	SSO reaches Surface Water or Storm Drains & not fully contained		Call (831) 755-4505	Maintenance & Utility Worker
SWRCB	If 50,000 gal or more were not recovered.	45 days after SSO end time, Submit SSO Technical Report.	CIWQS*	LRO, or District Engineer

\* In the event that the CIWQS online SSO database is not available, notify the State Water Resources Control Board (SWRCB) by phone or email and provide required information until the CIWQS online SSO database becomes available.

#### **Beach and Park Warnings and Closures**

- 1. District staff is responsible for posting beach and park warning or closure signs when there is a beach or park advisory or closure due to a SSO.
- 2. The beach and park advisory or closure pertains to the area where the SSO discharged into the applicable water body, including the Monterey Bay, and 1000 yards in each direction along the beach, stream or pond from the SSO entry point.
- 3. The signs are posted at all beach, stream or pond public access points within this 2,000-yard window.
- 4. The Monterey County Health Environmental Health Services' beach advisory and closure signs will be utilized by the District, mounted upon traffic barricades or other suitable method.
- 5. When Monterey County informs the District staff that the beach is no longer under an advisory or closure, staff is responsible for removal of the signs and barricades.

#### 11. TECHNICAL REPORT

This MRP requires that in the event of a 50,000 gal or greater overflow spilled to surface waters, the District must prepare and submit an SSO Technical Report that includes a description of all water quality sampling activities conducted, a location map of all water quality sampling points, and the analytical results and evaluation of the results, pursuant to Section B.5 of the MRP. In addition, this report must be submitted to the CIWQS Online SSO Database within 45 days of the end of the SSO and must be certified by the District's Legally Responsible Officer (LRO).

#### 12. RECORDKEEPING

All sampling related records associated with this WQMP should be contained in the appropriate SSO Incident file designated with a specific locator record number. These records shall include at least the following documents related to the WQMP:

- A narrative description of water quality sampling activities associated with the event.
- Timeline of the sampling activities until sampling is terminated.
- All surface water sampling worksheets.
- Computations of spill travel time in surface waters, if appropriate.
- Chain of Custody for all samples.
- Sampling Map of all sample locations.
- All photos or video showing sampling activities.
- Final analytical results from the certified laboratory conducting the sample analysis along with an Agency evaluation of the results to determine the nature and impact of the release.
- Failure analysis reviews of the WQMP including recommendations for changes and modifications.
- Calibration records for specific equipment used in the sampling processes.
- Notification documentation for all public and private agencies involved with or requiring monitoring related to final sample results.

The District shall maintain all records including records from service contractors associated with this WQMP as part of the file records for an SSO as required by the WDR and MRP. These records shall be maintained for a minimum period of five-years from the end date of the SSO unless required by regulatory enforcement action, request of the State or Regional Board or as support for claims litigation resulting from the SSO. All records associated with the SSO shall be destroyed upon reaching the end of the file retention period or as otherwise required by the Regional or State Board.

Samples of all District forms and records used in this WQMP are included as attachments.

#### 13. TRAINING

Training will be provided in accordance with Table 13.1.

Table 13.1 Seaside County Sanitation Distr	ict surface water sampling training program
Who Is Trained To Collect Surface Water Samples?	ALL MAINTENANCE & UTILITIES PERSONNEL, ENGINEERING PERSONNEL
Trainer Qualifications	The trainer shall, by virtue of training, experience, education or a combination thereof demonstrate expertise in surface water sampling science, techniques and documentation.
Training Curriculum	<ul> <li>at a minimum, training shall include:</li> <li>The District's Water Quality Monitoring Plan</li> <li>Sampling technique, including hands on practice</li> <li>Sampling equipment calibration, use and decontamination procedures, including hands on practice</li> <li>Sampling safety</li> <li>Completion of the Sampling Equipment Calibration/Maintenance Log, Surface Water Sampling Report and Chain of Custody</li> </ul>
Training Documentation	Attendees shall be required to sign-in to all training on the appropriate forms used by the District.
Refresher Training Frequency	Bi-Annual
Who is Responsible for Ensuring Training Occurs?	MAINTENANCE & UTILITIES SUPERINTENDENT, SENIOR ENGINEER
Required Training Records	Employee training sign in log
Who is Responsible for Maintaining Records?	MAINTENANCE & UTILITIES SUPERINTENDENT, SENIOR ENGINEER

#### 14. INTERNAL REVIEW AND UPDATE OF THE WQMP

The WQMP is a requirement of the WDR and MRP regulations and therefore the WQMP must be adopted by the District governing board when completed and thereafter at the same time as the new adoption of the SSMP every five years or when major changes to the SSMP are required. Internal reviews of the WQMP should be conducted at a minimum with District SSMP audits or with a failure analysis following a SSO event requiring the use of this WQMP. This latter evaluation should be used to determine if any procedures or program changes would improve the WQMP.

The internal review of the WQMP must include a thorough review of the then existing WQMP against actual performance by the agency staff and testing laboratory during and after the event. All documents associated with the water quality sampling should be reviewed and included in the SSO file and compared to the requirements in this Plan. Particular attention should be given to all dates and times associated with the monitoring, proper tests in support of the Regional Board Basin Plan, proper completion of the Chain of Custody, equipment calibration documentation of all equipment used for sampling and available photographs or video of the sampling processes, review and sign-offs by all responsible parties, review of the sampling locations map, final lab results and the certification report that the Technical Report was submitted within 45 calendar days of the end of the SSO to the CIWQS system.

In addition, the District should also conduct regular reviews of the WQMP at least bi-annually along with the bi-annual SSMP Audit required by the WDR. The review should be undertaken to determine that all information in the Program is current, that all classification responsibilities have not changed, that all forms are still appropriate and that all contract relationships with testing laboratories, if not associated with the agency, are still current and available 24 hours per day and 7 days per week. The review should also include a review of the Central Coast Regional Board Basin Plan to assure continuing conformance with the Basin Plan.

This internal review should be conducted by senior management of the collection systems personnel, laboratory management and any outside contract laboratory services subsequent to any event or once per year if the WQMP has not had to be invoked during the preceding year.

Finally, a schedule and assignment of responsibility for completion of the recommended changes should be prepared along with additions to the SSMP Change Log for these changes and modifications of the WQMP.

#### CHANGE LOG

The current MRP, Section E.3 requires that all changes to the Sanitary Sewer Management Plan (SSMP) be recorded and documented using an SSMP Change Log indicating what section is being change, a description of the changes, and the person or persons authorizing the changes. Because the WQMP is required by the WDR and MRP, it is also necessary that changes to the WQMP be included in the documentation of changes to the SSMP. Any changes resulting from Section 14 above should be added to the Change Log (see Attachment A) of the SSMP upon implementation and adoption of the changes as required by the WDR.

ATTACHMENT A SSMP Change Log

#### Seaside County Sanitation District Water Quality Monitoring Plan

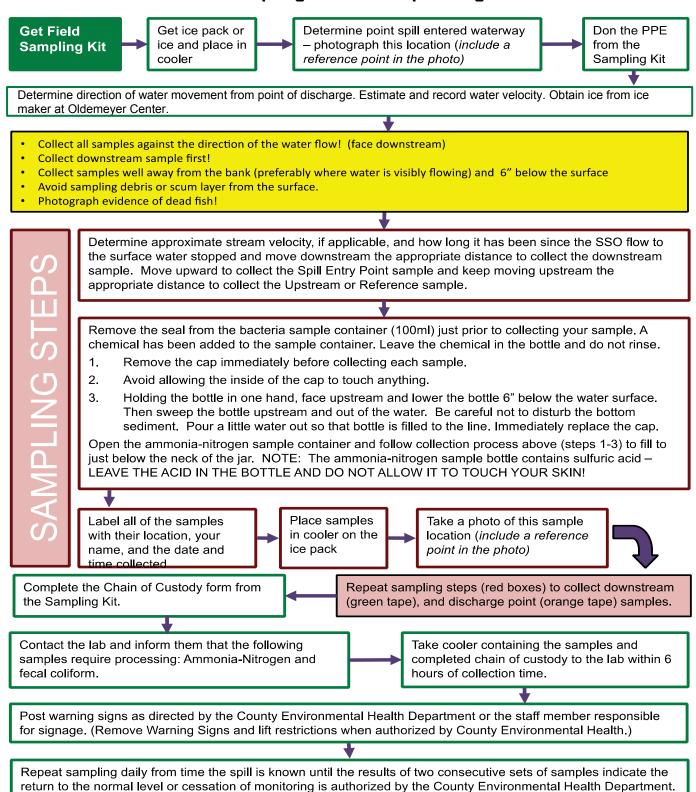
#### SSMP Change Log

Date	Section(s) Changed	Summary of Change	Approved (signature)

#### ATTACHMENT B Surface Water Sampling SOP

Seaside County Sanitation District Water Quality Monitoring Plan

#### Surface Water Sampling Standard Operating Procedure



C-O-C Distribution	Sample distribution:	Cooled?   □ Yes	Container intact?   Yes					Relinquished		*Matrix: P							LIMS# (Issued by Lab)		I	Sampled By	Lab Program Coordinator	Program Name	<b>Customer Telephone</b>	<b>Customer Address</b>	Customer Name
Date:	] Lab bench	es □ No	es □ No					þ		= Potable							Date				linator			-	(0)
By:	h 🗆 Ice chest	_						Date	-	Water, W =							Time		-				(831) 899-6885	140 Harcou	Seaside County Sanitation District
		Temp. Blank?	Correct container?					Time		Wastewa							etisoqmoD	Туре	SAMPLI				885	rt Avenu	unty Sai
	Nalk-in		ontaine		2		_		]	iter, A			$\times$	×	×	$\times$	Grab	pe	ECOLI					le, Sea	nitatior
🗆 Lab Admin File	Walk-in cooler shelf #	□Yes □No (	r? 🗆 Yes 🗆 No	Sample Receiving Documentation				Relin		P = Potable Water, W = Wastewater, A = Ambient Water, (	≥50,000 gal SSO	** Only used for	Field Blanks**	Downstream	Entry Point	Upstream	Sample Location		SAMPLE COLLECTION INFORMATION		Phone #		Mail Code	440 Harcourt Avenue, Seaside, CA 93955	District
min File		°C)		eceivir				<b>Relinquished to</b>		G = Gro							P		ATION		#		ode		
🗆 Pro	Disposal Date:	Comments:	Field preserved?	ng Docum				1 to		G = Groundwater,							Hq bləi٦								
Prog/proj Mgr.	Date:	nts:	served?	ientatic						S = Soil,							qməT bləiƏ			Courier:	Ship	Ship to:	CONTR		
			□ Yes	ň				Date		B =			2	3	З	З	: Containers	#		ier:	Ship Date:	to:	TRACT	Unkn	Hazaı
Lab Prog. Coord.								Time	-	osolids			0	A A	3 A	8 A	*xintsM						ACT LAB INFORMATION	<b>Unknown Material</b>	azardous Waste
og. Co			No					ē		, l = Inc			$\times$	×	×	×	sinommA		A				INFOF	lateria	Waste
ord.						Trac				dustria			×	×	×	×	Coliform / E. coli	) IstoT	nalysi				RMAT		÷
	Dispo		Custo		U Other:	Tracing #:	USPS	Tra		l, 0 =				X	X	X	Enterococcus		s Req				ION		
Delivery courier	Disposed by:		Custody tape intact?					Inspoi		Other									Analysis Requested		X		Tu	WO#	PO#
courie	y:		oe inta					rt/Ship		(specit									đ	☐ Other:	Rush	Norma	rnaro	O#	¥
r 🛛 Pick-up courier			□Yes □					<b>Transport/Shipping Information</b>		Biosolids, I = Industrial, O = Other (specify in remarks)			Distilled Water				Remarks/Notes	<ul><li>☑ Lab Standard</li><li>☑ Special (see attached)</li></ul>	QA/QC Requirements		⊠ Rush: <u>3 days</u>	🗆 Normal (21 days)	<b>Turnaround Requirement</b>		
ourier	(inits.)		No				FedEx	ň									otes	d attached)	ements				lent		

ATTACHMENT C
Surface Water Sample Collection Chain of Custody Record

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Surface Water Sampling Worksheet	ig Worksheet	ATTACHMENT D	ENT D	Seaside County Sanitation District Water Quality Monitoring Plan
Sample Date:	Sample Time:	AM DPM	A Sample Location:	
Sampler(s)' Name(s):				
Sampler(s)' Signature(s):				
ig sampled?		If the SSO w	SSO was not actively entering the surface water during sampling:	ter during sampling:
Q		A. Strear		CFS
□Bay/Estuary □Ocean □River	r □Other:	B. How L	How Long Has the SSO NOT Been Entering	NOT Been Entering the Surface Water?
Weather at time of sampling: □ □Sprinkling □Raining □	☐Sunny ☐Overcast ☐Snowing	C. How F	minutes X 60sec/min = seconds How Far Downstream Did You Travel To Collect The SOURCE Sample?	seconds ollect The SOURCE Sample?
SSO actively entering the	surface water during Sa		(A X C = Feet):feet	(A X C = Feet): feet
If no, complete A-D in the gray box to the right $\rightarrow$	$\cdot$ to the right $ ightarrow$			
NOTI	E: Calibrate equipment	prior to use and recou	NOTE: Calibrate equipment prior to use and record in the Equipment Calibration/Maintenance Log	itenance Log
Sample # of Location Samples*	pH Temp. DO (°C) (mg/l)	Photo ID# of Sample Location	Visual Observatio	Visual Observations and/or Interferences
Upstream				
Source				
Downstream				
Field Blank				
* Minimum of 2 per location				
FINISH CHECKLIST			<b>NOTES / OBSERVATIONS</b>	Ø
□ All Samples Labeled with: □ Date: a six-digit number indicating the year, month, day of collection	ndicating the year, mont	h, day of collection		
<ul> <li>Inne. a loui-lugit number indicating million of conection. e.g. 0334</li> <li>Sample Location: Upstream, Source, or Downstream</li> <li>Samplers: each sampler is identified</li> <li>Parameter/preservative: analysis to be conducted for sample/sample preservation</li> </ul>	am, Source, or Downstre	am am for sample/sample prev	servation	
a	đ			
☐ Samples on Ice in Cooler				
☐ Pictures Taken of Each Sample Location and the Photo ID/# Noted Above	ple Location and the F	hoto ID/# Noted Abov	©	
All Sampling Equipment Collected	llected			

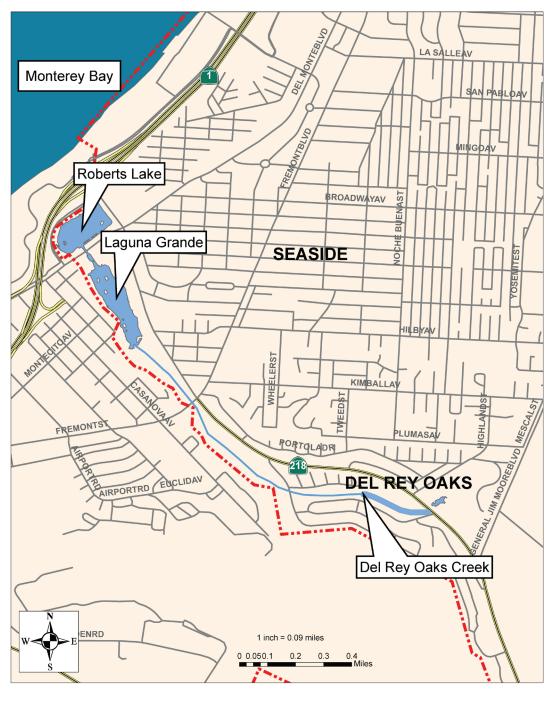
ATTACHMENT E Technical Report

#### Seaside County Sanitation District Water Quality Monitoring Plan

#### Technical Report Outline

- 1. Introduction Agency/system description
- 2. SSO Technical Report Contents and Responses
  - a. Causes and Circumstances of the SSO
    - i. Detailed explanation of how and when SSO was discovered
    - ii. Diagram indicating SSO "Cause point", appearance point, and final destination (use attachments, maps and diagrams as needed)
    - iii. Detailed description of methodology employed and available data used to calculate the SSO volume and any volume recovered
    - iv. Detailed description of the cause(s) of the SSO
    - v. Copies of the original field crew records used to document the SSO (attachment)
    - vi. Historical maintenance records for the lines involved in the cause of the SSO (attachment)
  - b. Agency's Response to the SSO
    - i. Chronological narrative description of actions taken by agency to terminate the SSO
    - ii. Description of how the OERP was implemented to respond to and mitigate any impacts of the SSO
    - iii. Final corrective action(s) completed and/or planned, including a schedule for actions not yet completed
  - c. Water Quality Monitoring
    - i. Description of all water quality sampling activities conducted, including analytical results and evaluation of the results
    - ii. Detailed location map illustrating all water quality sampling points
- 3. Conclusions
- 4. LRO Certification and Placement into CIWQS

#### ATTACHMENT F SURFACE WATER MAPS





Seaside County Sanitation District Water Quality Monitoring Program Plan Surface Waters of Concern

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