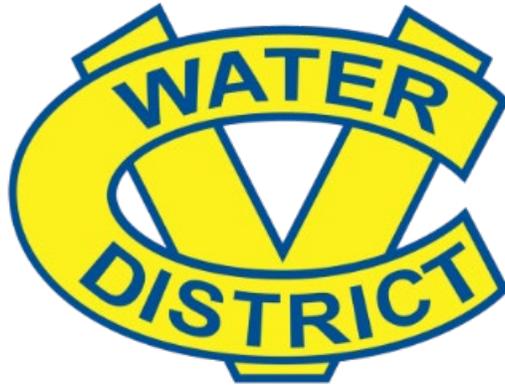


Coachella Valley Water District



Sewer System Management Plan Part A



May 2, 2025

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1 Introduction and Goal

Core Sewer System Management Plan Objectives

- Properly managing and maintaining the sanitary sewer system.
- Reducing and preventing sewage spills.
- Containing and mitigating spills when they occur.

The SSMP must include an introductory section covering:

- The relevant regulatory context.
- The plan's update schedule.
- An overview of the sewer system's assets.

1.1 Introduction

The Coachella Valley Water District (CVWD) has developed this Sewer System Management Plan (SSMP) for its wastewater collection system in compliance with the State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDR) issued on May 2, 2006, and subsequent amendments.

The CVWD Board of Directors formally adopted the Sewer System Management Plan (SSMP) and the Development Design Plan Manual and Schedule (Development Plan) on July 31, 2007. The SSMP was established in accordance with the provisions of the Development Design Manual. As of February 2024, the Development Plan is undergoing revision, with the next update anticipated in October 2024. Subsequent revisions and audits of the SSMP are documented in Attachment A and are updated at a minimum in conjunction with the six-year Plan revision schedule; audits are mandated every three years.

The SSMP is organized to follow the required Plan elements as listed in the SWRCB Order WQ-2022-0103-DWQ:

1. Organization
2. Legal Authority
3. Operation and Maintenance Program
4. Design and Performance Provisions
5. Spill Emergency Response Plan (SERP)
6. Sewer Pipe Blockage Control Plan
7. System Evaluation, Capacity Assurance and Capital Improvements
8. Measurement Monitoring, and Program Modifications
9. Internal Audits
10. Communication Program

1.2 Regulatory Requirement

This Sewer System Management Plan (SSMP) has been developed in accordance with the California State Water Resources Control Board (SWRCB) Order WQ 2022-0103-DWQ¹ and incorporates the requirements of the revised SWRCB Order No. WQ 2013-0058-EXEC².

The SSMP outlines the management of its sanitary sewer collection system. Developed to minimize sanitary sewer spills (SSS) and mitigate their effects, the SSMP adheres to the requirements of the Statewide General Waste Discharge Requirements (WDR) for sanitary sewer systems, enacted on June 5, 2023. This SSMP is comprised of Part A Chapter 1-10 and Part B, the Spill Emergency Response Plan (SERP), aligning with the purpose of WDR Order WQ 2022-0103-DWQ to reduce, mitigate, contain, or prevent the impacts of sewage spills.

Sewage, defined as untreated or partially treated domestic, municipal, commercial, and/or industrial waste (including sewage sludge) mixed with inflow or infiltration, is conveyed through the sanitary sewer system. A spill is any discharge of sewage from this system due to operational or infrastructure failure. Such spills pose a threat to public health, beneficial uses of state waters, and the environment.

CVWD maintains an infrequent and below-average spill history compared to other agencies in the state. This favorable record is attributed to the relatively new infrastructure of a significant portion of its sanitary sewer system and the dedication of its professional and certified staff. The principles and practices mandated by the WDR will further support CVWD in sustaining and enhancing its positive spill trend.

¹California State Water Resources Control Board Order WQ 2022-0103-DWQ:
https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo_2022-0103-dwq.pdf

²California State Water Resources Control Board Order WQ 2013-0058-EXEC:
https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2013/wqo2013_0058_exec.pdf

1.3 Goal

As mandated by the State Water Resources Control Board (SWRCB), each Enrollee is required to establish and implement a Sewer System Management Plan (SSMP). A key component of this SSMP, and incorporated herein by reference, is the Spill Emergency Response Plan (SERP), detailed in Chapter 6.

CVWD's mission is to protect public health and safeguard investments in the sanitary/collections infrastructure by delivering exceptional internal and external customer service. This commitment is realized through the efforts of our trained, certified, and professional personnel, who operate in an efficient, effective, and proactive manner.

Full implementation of CVWD's SSMP and its associated maintenance schedules will ensure a properly managed, operated, and maintained sanitary sewer system. This proactive approach is designed to reduce the occurrence of sanitary sewer spills and mitigate their potential effects.

1.3.1 Key Priorities

In compliance with regulatory requirements, CVWD has integrated system-specific protocols into the SSMP. These protocols proactively prioritize: (1) operation and maintenance, (2) condition assessments, and (3) repair and rehabilitation to enhance ongoing system resilience, as mandated by Attachment D (Sewer System Management Plan – Required Elements) of the General Order³. This SSMP governs the management, operation, and maintenance of all components of CVWD's wastewater sanitary system.

CVWD is committed to achieving these objectives through the following key priorities:

- Ensuring sufficient capacity to convey peak wastewater flows.
- Minimizing the occurrence of dry and wet weather spills.
- Mitigating the impacts of any spills that may occur.
- Conducting timely repair, rehabilitation, replacement, and upgrades of system components.
- Adhering to all applicable regulatory notification and reporting requirements.
- Providing exceptional customer service to residents and businesses.

³California State Water Resources Control Board Order WQ 2022-0103-DWQ:
https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo_2022-0103-dwq.pdf

1.4 SSMP Update Schedule

The Sewer System Management Plan (SSMP) update schedules involve recognizing the regulatory framework set by the California State Water Resources Control Board (SWRCB). In essence, while the general framework involves regular updates and audits, specific schedules can vary. Therefore, consulting the SWRCB's resources is crucial for accurate and up-to-date information.

Year	CIWQS					CVWD SERP Review (internal)
	SSMP Update Schedule*	SSMP Audit Schedule**	Month Due	Category 4 Annual Spill Report	SSS Annual Report	
2024		Audit Due	2-May	1-Feb	1-Apr	Quarter 1
2025	SSMP Update	-	2-May	1-Feb	1-Apr	Quarter 1
2026		-	2-May	1-Feb	1-Apr	Quarter 1
2027		Audit Due	2-May	1-Feb	1-Apr	Quarter 1
2028		-	2-May	1-Feb	1-Apr	Quarter 1
2029		-	2-May	1-Feb	1-Apr	Quarter 1
2030		Audit Due	2-May	1-Feb	1-Apr	Quarter 1
2031	SSMP Update	-	2-May	1-Feb	1-Apr	Quarter 1

Figure 1 CVWD Regulatory SSMP Updates and Reporting Schedules

1.4.1 Update and Audit Frequency

The SSMP is designed as a dynamic document, necessitating routine review and revision to ensure alignment with contemporary conditions and scientific understanding. Regulatory frameworks mandate both periodic updates and audits to maintain plan efficacy. Specifically, agencies are required to conduct biennial self-audits. Comprehensive SSMP updates are stipulated to occur within six years of the preceding plan update's regulatory due date.

1.4.2 CIWQS Resources

For definitive update and audit deadlines pertaining to a particular system, please consult the California State Water Resources Control Board (SWRCB) website⁴.

Sewer System Management Plan & Audit Required Due Dates Transition from General Order 2006-0003-DWQ to Reissued General Order

Search by Waste Discharge Identification (WDID) Number

Enter your Waste Discharge Identification (WDID) number in the search field to retrieve the required Sewer System Management Plan (SSMP) Update and Audit due dates for your system.

7SSO10535

Show Update/Audit Dates

Sewer System Management Plan & Subsequent Update Due Dates					
System Name	WDID Number	Original Plan Required Due Date	Required Plan Update Due Date	Required Plan Update Due Date	Required Plan Update Due Date*
Coachella Valley Water District CS	7SSO10535	5/2/2009	5/2/2014	5/2/2019	5/2/2025

Audit Due Dates								
System Name	WDID Number	Original Required Plan Audit Due Date	End of Required 3-Year Audit Period**					
Coachella Valley Water District CS	7SSO10535	5/2/2011	5/2/2013	5/2/2015	5/2/2017	5/2/2019	5/2/2021	5/2/2024

* Per Section 5.5 and Attachment E1, Section 3.11 of the General Order, Plan updates are due within six years after the required due date of the Enrollee's last Plan Update.

** Per Section 5.4 and Attachment E1, Section 3.10 of the General Order, the Audit Report is due within six months after the end of the required 3-year audit period.

Figure 2 SSMP and Audit Due Dates via CIWQS Website

1.4.3 Audit Report

The Legally Responsible Official shall submit an internal audit report into the online California Integrated Water Quality System (CIWQS) database per the requirements in section 3.10 of Attachment E1 of the General Order.

Required SSMP internal audits are required to be completed and uploaded to CIWQS every three years to evaluate implementation and effectiveness of the plan in reducing spills, evaluate compliance with the General Order, identify SSMP deficiencies in addressing ongoing spills and discharges to waters of the state, identify necessary modifications to the plan to correct deficiencies.

⁴ CIWQS Information relevant to Coachella Valley Water District (CVWD) can be accessed at the following URL: https://www.waterboards.ca.gov/water_issues/programs/sso/lookup/ and entering CVWD WDID No. 7SSO10535.

1.4.4 Sewer System Management Plan Update

A Sewer System Management Plan is a living document, CVWD develops and implements the SSMP to effectively manage its sanitary sewer system(s) per section 5.2 and Attachment E1 section 3.11 of the General Order.

The CVWD SSMP is updated every six years, as required, to ensure it is current and includes any audit findings of which direct change to the plan; the six-year update is re-certified by the Board of Directors.

1.4.4.1 Spill Emergency Response Plan Update

In compliance with regulatory requirements, the Spill Emergency Response Plan (SERP) is integrated into the Sewer System Management Plan (SSMP). This document (SSMP - Part A) references the SERP, which is fully detailed in SSMP Part B. The SERP is subject to an annual review and update to ensure adherence to best practices and the validity of emergency response protocols, supporting documentation, personnel responsibilities, and contact information.

1.4.5 Category 4 and Enrollee-owned/operated Lateral Spill Report

Category 4 and Enrollee-owned/operated Lateral Spill Reports consist of monthly and annual reporting components. Monthly, where the total volume and number of Category 4 spills must be certified and annually where more detailed information on these spills is required.

1.4.5.1 Monthly Reporting

Certify monthly, the estimated total spill volume and the total number of all Category 4 spills into CIWQS, within 30 days after the end of the calendar month in which the spills occurred.

1.4.5.2 Annual Reporting

Certify and upload a report of all Category 4 spills to California Integrated Water Quality System (CIWQS), by February 1st after the end of the calendar year in which the spills occurred.

1.4.6 Annual Report

Previously termed as “Collection System Questionnaire in Order 2006-0003-DWQ”, The annual report is a mandatory report in which the Enrollee, CVWD, provides a calendar-year update of its efforts to prevent spills per Attachment E1 section 3.9, due April 1st of every year.

1.5 Sewer System Asset Overview

CVWD is a public agency special district governed by a five-member board of directors⁵. CVWD provides domestic water, wastewater (sanitation), non-potable water (recycled water and Colorado River water), irrigation/drainage, stormwater and groundwater management services to a population of approximately 264,612 throughout the Coachella Valley in Southern California. CVWD was formed in 1918 under the state water code provisions of the County Water District Act (Water Code § 30000 et seq.). A governing board of five members is elected from five general directorial divisions for terms of four years each.

CVWD boundaries encompass an area of nearly 1,000 square miles in the Coachella Valley. A majority of CVWD's service territory is in Riverside County, however CVWD boundaries also extend into Imperial and San Diego Counties. Communities served include Cathedral City, Indian Wells, La Quinta, Mecca, North Shore, Palm Desert, Rancho Mirage, Thermal and Thousand Palms in Riverside County as well as the communities of Bombay Beach, Desert Shores, Hot Mineral Spa, Salton Sea Beach, and Salton City in Imperial County. The Coachella Valley Water District Sanitation Boundary map is available online⁶. CVWD owns and operates wastewater treatment and disposal systems which provide sewerage services to private and commercial customers in the Coachella Valley from Cathedral City at the Northwest to Bombay Beach at the Southeast.

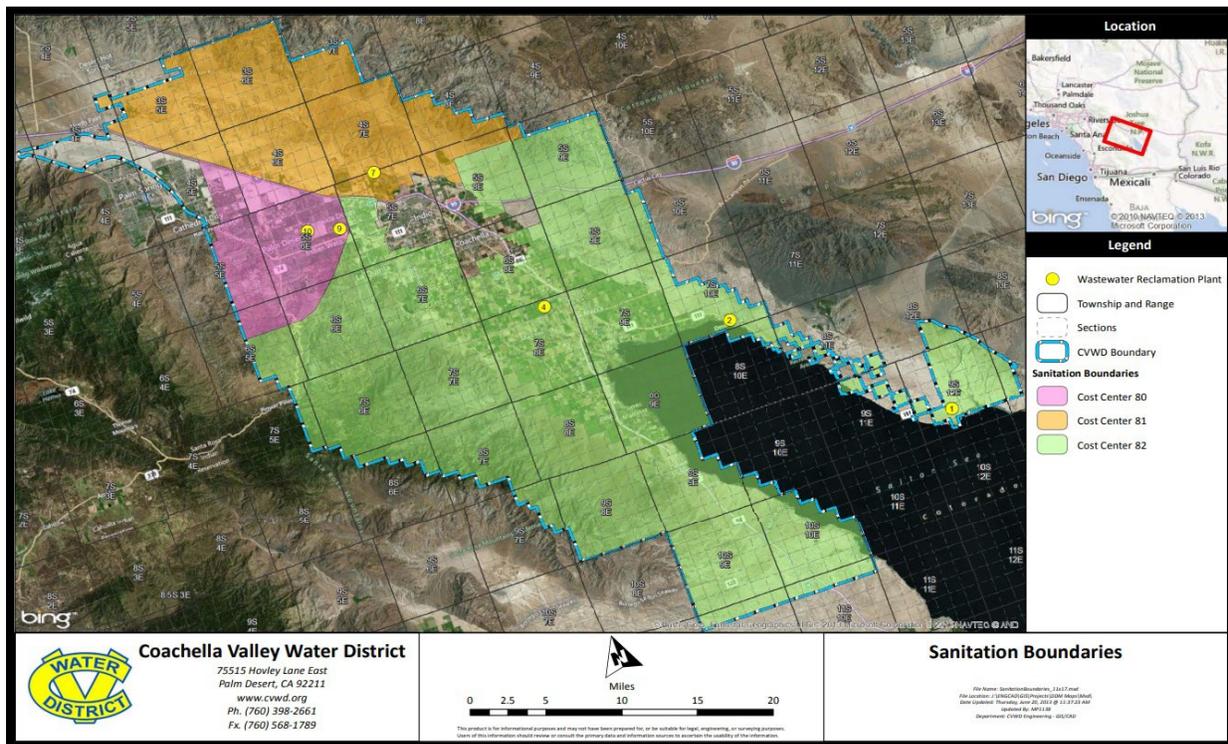


Figure 3 Coachella Valley Water District Sanitation Boundary Map

⁵ CV Water Agency and Directorial Divisions Map <https://www.cvwd.org/333/CVWD-Map>

⁶ CVWD Sanitation Boundary Map <https://www.cvwd.org/DocumentCenter/View/1017/Sanitation-Service-Area-Map-PDF?bidId=>

1.5.1 Wastewater Capacity

CVWD wastewater treatment capacity, in millions of US-gallons per day (MGD) for the 2024 reporting period.

2024 Wastewater Treatment Capacity	MGD
Average-day flow	17.36
Maximum-day flow	25
Rated wastewater treatment capacity (design max daily)	33.1

1.5.2 Active Wastewater Accounts

In the 2024 reporting period, CVWD managed a total of 105,180 active wastewater accounts with residential customers comprising approximately 95% and industrial/commercial customers making up the remaining 5% of the system.

Table 1 CVWD Active Wastewater Accounts

Active Wastewater Accounts	Accounts
Residential Accounts	99,968
Industrial Service - Commercial Accounts	5212
Total:	105,180

1.5.3 CVWD Asset Inventory

The CVWD sanitation system⁷ delivers essential sewer collection services to a population of approximately 264,612 residents⁸, alongside a diverse range of commercial, industrial, and institutional clients. This infrastructure supports the operations of five water reclamation plants (WRP-1, WRP-2, WRP-4, WRP-7, and WRP-10), facilitating the treatment and reclamation of wastewater. The conveyance of sewer flows is achieved through a strategically designed network comprising both horizontal and vertical assets. Horizontal assets, encompassing approximately 1,200 miles of gravity mains and force mains (76 miles), with pipe diameters ranging from 4 to 42 inches, and approximately 22,355 maintenance holes, form the linear network responsible for transporting wastewater⁹. Vertical assets, such as the 25 lift stations, are critical for elevating wastewater to higher elevations, ensuring efficient flow throughout the system. This integrated approach, combining extensive pipeline networks with strategically placed lift stations, enables CVWD to effectively manage and transport wastewater within its service area. CVWD maintains an extensive stormwater protection system that functions independently from the sanitary sewer system, with no deliberate design to divert stormwater into the sanitary sewer system.

⁷ CVWD Sanitation Boundary Map <https://www.cvwd.org/DocumentCenter/View/1017/Sanitation-Service-Area-Map-PDF?bidId=>

⁸ Data collected from the 2024 AWWA Benchmark Survey completed by CVWD Engineering.

⁹ Data collected from the Sanitation Master Plan – Collections CIP Updated May 2021.

1.5.3.1 Sanitary Collection System Horizontal Assets

CVWD wastewater collection system, horizontal assets, fundamentally constitute the linear network responsible for the conveyance of wastewater from its source to treatment facilities. These assets, extending along the ground, are critical for the efficient transport of sewage. Specifically, horizontal assets encompass sewer pipes, the primary conduits for wastewater flow; manholes, providing essential access for inspection and maintenance; lateral lines, connecting individual properties to the main collection system; and collection mains, which aggregate wastewater from multiple laterals. This interconnected network of pipes and access points forms the backbone of CVWD's wastewater infrastructure, ensuring the reliable and continuous movement of sewage within the district.

Pipeline Distribution and Material

The distribution of pipeline assets, segmented by diameter and material, is documented in Chapter 1, Tables 2 and 3 below are referenced totals from the CVWD GIS Portal and the CVWD Sanitation Master Plan Update, Volume 2 Collection System CIP, dated May 2021.

Table 2 Sanitary Pipeline Distribution Percentage by Size and Type

Diameter	Gravity Mains (LF)	Force Mains (LF)	% of CVWD System
6"	79,286	28,055	2%
8"	4,633,073	27,602	72%
9-18"	1,185,531	342,888	24%
19-36"	153,966	1,464	2%
>36"	23,440	-	0%
Unknown/Other	7,557	-	0%
Total Linear (FT)	6,082,854	400,009	6,482,863
Total (MILES)	1,152.06	75.76	1,228

Table 3 Sanitary System Pipe Material Distribution Percentage

Pipe Material	Approximate Percentage of the System
Asbestos Cement	< 1%
Cast Iron Pipe	< 1%
Ductile Iron Pipe	< 1%
Polyvinyl Chloride	3%
Steel	< 1%
Vitrified Clay	97%
Unknown - Other	< 1%

1.5.4 Sanitary Collection System Vertical Assets

The CVWD wastewater collection and treatment infrastructure relies on key vertical assets to maintain operational efficiency and regulatory compliance. Odor control facilities are implemented to minimize environmental impacts by treating and eliminating malodorous compounds generated within the system. Lift stations (sanitary pump stations), and associated wet wells, ensure the pressurized conveyance of wastewater to higher elevations through integrated pumping and control mechanisms. Finally, wastewater treatment plants, complex engineered facilities, process wastewater to meet stringent regulatory discharge standards.

1.5.4.1 Odor Control Dosing Facility

The CVWD wastewater collection infrastructure incorporates a chemical odor control facility as a vertical asset to mitigate nuisance odors and ensure environmental compliance. These facility employs ferrous-based chemical treatment, specifically utilizing ferrous chloride or ferrous sulfate, to chemically bind with hydrogen sulfide (H₂S) and other odor-causing compounds present in wastewater. This process involves the controlled injection of ferrous solution into a strategic point within the collection system.

The chemical storage and delivery system, a key component of these facility, includes dedicated storage tanks designed to contain the ferrous solution, along with associated pumps, metering devices, and control systems to regulate chemical dosing. This integrated system ensures effective and reliable management of odor emissions, safeguarding public health and maintaining community standards.

Table 4 Collection System Odor Control Chemical Dosing Facility

Count	Site	LOCATION
1	BS 6711	53-209 Madison Street, La Quinta CA

1.5.4.2 Lift Stations

The Coachella Valley Water District's wastewater lift stations are engineered systems that utilize pressurized conveyance to transport wastewater to higher elevations. These critical assets incorporate the following key components: a wastewater wet-well; a pumping assembly consisting of pumps, piping, and valves; electric motor drives; a dedicated power supply infrastructure; a sophisticated equipment control and alarm system; and odor and ventilation systems to maintain optimal operational and environmental conditions.

Table 5 CVWD Sanitary Lift Stations

Count	LIFT STATION No.	LOCATION
1	50-01	South of Desert Beach Dr. North Shore
2	50-02	West Palm Dr. North Shore (Bunker Hill)
3	51-01	5th & F St. Bombay Beach
4	55-01	Ave 50th & the La Quinta SWC
5	55-11	Hammond Rd. South of Ave 66 Mecca
6	55-12	Jefferson St. Lift Station @ Home Depot.
7	55-19	Calhoun & Airport Blvd. Thermal
8	55-21	Middleton Rd. Desert Mirage High School
9	55-24	Jackson St. North of Ave. 52
10	55-26	Pierce St. South of Ave. 62
11	55-27	SADD, 91080 68th Ave, Mecca CA 92254
12	80-03	Cook St. L/S SE corner of Cook St. & Channel
13	80-04	Indian Wells @ Hwy 111 & SWC (Cliffhouse)
14	80-05	Mountain Cove Dr. Indian Wells
15	80-06	Country Club Dr. East of Hwy 111 (ID-57)
16	80-07	Paxton Dr. E of Hwy 111 by SWC Rancho Mirage
17	80-08	Sandpiper Lift Station off El Paseo Dr. Gate "B"
18	80-09	Vintage C.C. Vintage Dr. & Morning Star Dr.
19	80-13	Grand Champions Indian Wells (below ground)
20	80-18	WRP #10 Bio solids Building (Toscana)
21	80-19	Miles Ave @ Warner Dr. Indian Wells
22	81-01	Washington St. L/S (Wendy's Restaurant)
23	81-03	Burr St. lift Station.
24	81-04	Del Webb L/S @ Adams St. & Varner Rd.
25	81-07	Varner Rd. @ Canal, Indio

1.5.4.3 Water Reclamation Treatment Plants

CVWD's five wastewater reclamation plants (WRPs) are essential for sustainable water management in the Coachella Valley. They employ advanced treatment to convert wastewater into reclaimed water for irrigation, reducing reliance on scarce water resources and supporting regional growth, while prioritizing environmental protection.

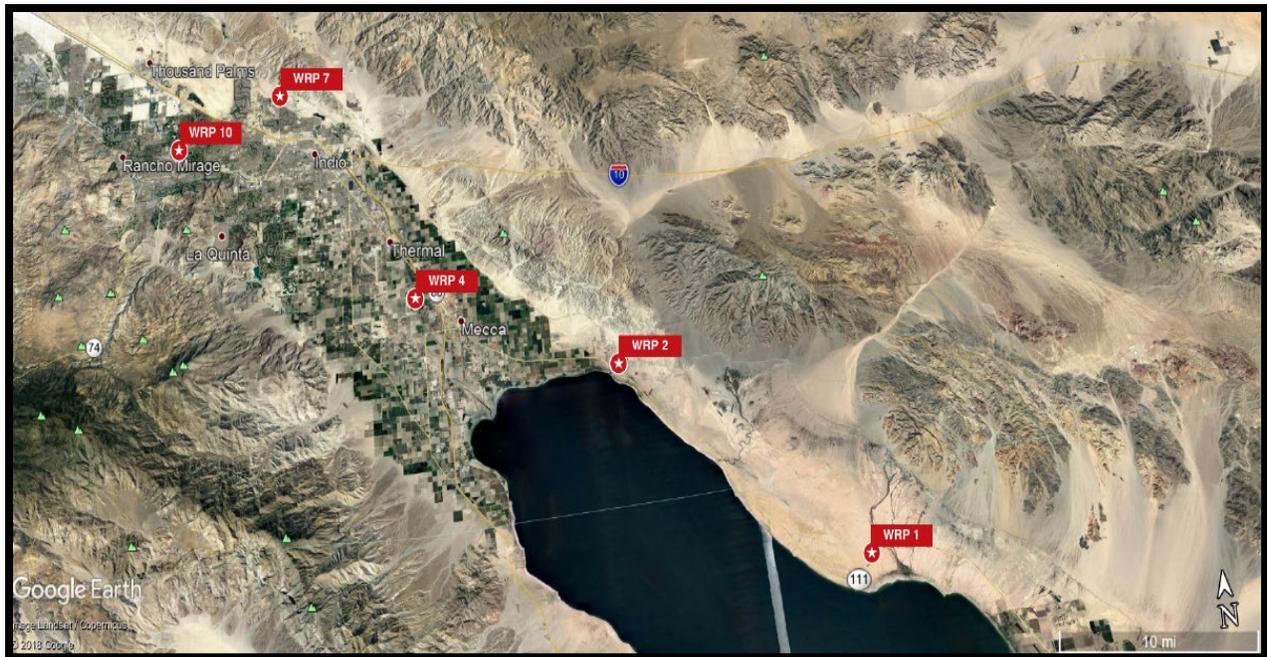
Table 6 Water Reclamation Plant Address, Permit, and WDID Numbers

WRP	Address	Permit No.	WDID
1	2201 Honey Wagon Rd, Bombay Beach, Imperial Co., CA 92257	R7-2013-0024	7A330105021
2	72-900 Hwy 111, North Shore, Riverside County, CA 92254	R7-2013-0025	7A330105032
4	63-002 Fillmore Street, Thermal, Riverside County, CA 92274	R7-2023-0013	7A330105091
7	80-609 Avenue 38, Indio, Riverside County, CA 92201	R7-2022-0009	7A330105071
10	43-000 Cook Street, Palm Desert, Riverside County, CA 92211	R7-2024-0016	7A330105012

WRP Site Area Map

Aerial maps of CVWD's service area demonstrate the geographic distribution of its five WRPs, underscoring the scale of its sanitation infrastructure.

Figure 4 CVWD Treatment Plant Area Map



1.5.4.4 Water Reclamation Plant No. 1

The WRP-1 treatment facility consists of mechanically aerated, concrete-lined ponds (oxidation basins) that provide a secondary level of wastewater treatment.

- The secondary wastewater treatment design capacity is 150,000 gallons per day (gpd).
- The secondary treatment consists of 2 mechanically aerated, oxidation basins, two unlined stabilization basins, and six evaporation/percolation ponds.
- The final disposal of treated wastewater is by evaporation-percolation in the basins.
- A minimum of two feet of freeboard is maintained in all ponds and basins at WRP-1 at all times and are visually inspected and recorded weekly.
- The average influent flow is 20,000 gpd, which is well below the design capacity of 150,000 gpd.

1.5.4.5 Water Reclamation Plant No. 2

The WRP-2 treatment facility consists of a mechanically aerated, synthetic-lined pond (aeration basin) that provides a secondary level of wastewater treatment.

- The secondary wastewater treatment design capacity is 33,000 gallons per day (gpd).
- The secondary treatment consists of 1 mechanically aerated oxidation basin, two emergency storage ponds, and two evaporation/percolation ponds.
- The final disposal of treated wastewater is by evaporation-percolation in the basins.
- A minimum of two feet of freeboard is maintained in all ponds and basins at WRP2 at all times and is visually inspected and recorded weekly.
- The average influent flow is 14,000 gpd, which is well below the capacity of 33,000 gpd.

1.5.4.6 Water Reclamation Plant No. 4

WRP-4 employs a multi-stage treatment process, integrating preliminary, secondary, disinfection, and biosolids handling, to achieve secondary level wastewater treatment. The facility operates two parallel secondary treatment lines: a 7.0 MGD aerated lagoon system and a 2.9 MGD Biolac® activated sludge system, resulting in a combined design capacity of 9.9 MGD.

Preliminary Treatment (Headworks)

Preliminary wastewater treatment at the facility employs screening, grit removal, and pumping to manage peak hourly and daily flows of 20.0 MGD and 13 MGD, respectively. Gravity and force mains convey influent through fine bar screens and into a 40-foot-deep pump station equipped with three 150 hp pumps. Screened wastewater is then elevated for grit removal via a vortex chamber before distribution to aerated lagoons and a Biolac activated sludge system. Removed debris and grit are landfilled. An integrated, automated odor control system, utilizing microbial processes, effectively mitigates hydrogen sulfide and odors. Automated influent gates and process equipment optimize efficiency and reliability, minimizing operational costs.

Screening Washer/Compactor

The headworks screen building incorporates a screening/washer/compactor system for efficient solids removal and processing. This system features dual-shafted grinders that reduce screened solids to manageable sizes for subsequent treatment. The ground screenings are then conveyed to a wash tank, where an integrated spray system and auger mechanism facilitate the removal of organic material and dewatering. The auger's spiral motion directs the washed screenings towards a compaction zone, where further dewatering and compaction occur within a tapered discharge chute. The processed screenings are ultimately discharged into a 20-yard dumpster for landfill disposal. The facility averages approximately six tons of combined grit and screenings removal per month.

Bio-Towers/Odor Control System

The Headworks odor control system utilizes three parallel bio-trickling filter trains, each with a 20-inch blower, to treat foul air from the screen, wet well, and grit building. Designed for a maximum flow of 6,000 SCFM, the system employs Eco-filter units with synthetic media and a 19 GPM water spray. Operational protocols ensure even airflow distribution, maintain detailed performance logs for regulatory compliance (SCAQMD), and utilize calibrated H₂S monitoring at inlet and outlet sampling ports. Exhaust H₂S concentrations are maintained below 2.0 PPM.

Secondary Treatment

The secondary treatment system at WRP4 comprises five modules: four aerated lagoon modules and one Biolac® activated sludge module. Each lagoon module includes four lined aerated lagoons, equipped with 20 hp surface aerators, and two lined polishing ponds, all maintained with a two-foot freeboard. The Biolac® system features two 2.75 MG activated sludge basins, two 300 hp centrifugal blowers, two 0.500 MG secondary clarifiers, three 20 hp RAS pumps, and two 10 hp WAS pumps.

Bio-Solids Treatment

The bio-solids facility utilizes a 1.5-meter gravity belt thickener and a 2-meter gravity belt filter press for sludge dewatering. Waste activated sludge (WAS) is pumped to the thickener, where polymer is introduced to enhance thickening. Subsequently, the thickened WAS (T-WAS) is transferred to an aerated holding tank before being pumped to the filter press for final dewatering. Polymer is again introduced to maximize water removal. The resulting bio-solids are then conveyed to a trailer and transported for composting and beneficial reuse at Arizona soils.

Disinfection Treatment

Secondary effluent from the lagoon and Biolac systems undergoes disinfection via chlorine gas injection, followed by dechlorination with sulfur bisulfate using chemical injection units, prior to discharge into the Coachella Valley Storm Water Channel. The lagoons' 24-million-gallon emergency storage capacity, facilitated by a 2-foot freeboard, enables controlled plant shutdowns in response to chemical residual deviations or operator-initiated actions. During such shutdowns, influent is diverted to the lagoon system, and effluent discharge is terminated. Automated alarms promptly notify control operators of shutdown events, who then activate established notification protocols for operations staff. Emergency response procedures designate the Chief Plant Operator or Shift Supervisor as the primary on-site responders during standard work hours, with a designated stand-by operator assuming responsibility during off-hours, ensuring timely notification of supervisory personnel.

1.5.4.7 Water Reclamation Plant No. 7

WRP-7 employs a conventional activated sludge process followed by chlorine disinfection to achieve tertiary treatment standards. The resultant high-quality effluent is recycled, blended with canal water, and utilized for outdoor irrigation purposes.

Preliminary Treatment

Headworks preliminary treatment, designed for peak hourly and daily flows of 20.0 MG and 13 MGD respectively, comprises screening, grit removal, and pumping. Gravity-fed influent passes through fine bar screens, then is pumped from a 40-foot-deep station to an elevated grit vortex chamber. Screened wastewater proceeds to aeration tanks, while removed debris and grit are landfilled. An automated microbial odor control system manages hydrogen sulfide emissions. Automated gates and process equipment optimize efficiency and minimize operational costs.

Screening Washer/Compactor

The headworks screen building incorporates a screening/washer/compactor system for efficient solids management. This system comprises: dual-shafted "Muffin Monster" grinders that comminute screened solids for subsequent processing; a wash tank employing a spray system and auger-driven rotation to remove organic material and dewater screenings; a compaction zone (compaction elbow) where washed screenings undergo further dewatering and compaction; and a discharge chute that directs the compacted solids. The processed screenings are then deposited into a 20-yard dumpster for landfill disposal. WRP-7 generates an average of 4 to 5 tons of grit and screenings weekly.

Bio-Towers/Odor Control System

The Headworks odor control system utilizes three parallel bio-trickling filter trains, each with dedicated blowers and isolation dampers, to treat foul air from the screen, wet well, and grit building. These Eco-filter units, operating at a combined 6,000 SCFM, employ synthetic media and a 19 GPM water spray to biologically remove hydrogen sulfide, with excess water diverted to the headworks inlet. System performance is monitored via inlet flow meters and accessible H₂S sampling ports. Operational logs are maintained for a minimum of two years, and exhaust H₂S concentrations are kept below 2.0 PPM to ensure compliance with SCAQMD regulations.

Secondary Treatment

WRP-7 employs a streamlined treatment process, bypassing primary treatment and sludge digestion, with influent directed immediately to two 2.5 MGD aeration basins and two 5.0 MGD clarifiers, enabling single-clarifier operation during normal conditions. The aeration basins are equipped for future denitrification through anoxic zone mixers and mixed liquor return pumps. Secondary sludge is managed via a RAS/WAS wet well, with 40hp pumps returning activated sludge and 10hp pumps directing waste activated sludge to a gravity belt thickener. Clarified secondary effluent is then conveyed to an AWT pump station for distribution to tertiary gravity dual media filters or on/off-site percolation ponds.

Bio-Solids Treatment

Waste activated sludge (WAS), initially at approximately 4,200 mg/L, is conditioned with cationic emulsion polymer and thickened to 1.5%-2.0% total solids (TS) via a gravity belt thickener (GBT). The thickened sludge is then stored in a 270,000-gallon holding tank before being fed to centrifuges for final dewatering at a rate of up to 120gpm, with a polymer dosage of 4.7 gallons per hour. The resulting biosolids cake, averaging 19%-21% TS, is transported by a contracted hauler to Arizona for composting and beneficial reuse.

Tertiary Treatment

WRP7's tertiary treatment system, designed for 2.5 MGD, utilizes gravity filters with aluminum sulfate coagulation/flocculation/flocculation and sand/antracite media filtration to produce Title 22-compliant recycled water for irrigation. The facility incorporates an 800,000-gallon lined storage basin for tertiary recycled water and a 200,000-gallon basin for secondary effluent. To meet peak irrigation demands, Colorado River water from the Coachella Canal pump station supplements recycled water, preserving groundwater resources.

1.5.4.8 Water Reclamation Plant No. 10

WRP-10 provides advanced wastewater treatment services to the communities of Indian Wells, Palm Desert, Rancho Mirage, and a portion of Cathedral City. This facility utilizes an activated sludge process to deliver both secondary and tertiary treatment of domestic municipal wastewater, incorporating dedicated septage receiving facilities for the processing of septage waste. WRP10 comprises three independent liquid-stream secondary treatment trains (A-plant, B-plant, and C-plant), collectively providing a secondary treatment capacity of 18 million gallons per day (MGD).

Tertiary treatment is accomplished through two filtration trains, with a combined capacity of 15 MGD, producing Title 22 compliant recycled water. The recycled water pump station incorporates two 5-million-gallon lined equalization basins for off-peak storage and two concrete and PVC-lined surface impoundments to supplement canal water supply. Excess secondary effluent is managed through four lined reservoirs, with a total storage capacity of 75 million gallons, allowing for either return to the headworks or final disposal via nine on-site percolation ponds.

Preliminary Treatment

The headworks employs three mechanical bar racks, two screening washer/compactors, an influent pump station, and dual grit removal chambers (aerated and vortex) to process incoming wastewater. Three automatic bar screens, with varying capacities up to 18 MGD each, remove large solids. The influent pump station, equipped with six pumps totaling 45 MGD capacity, transfers screened wastewater to the grit vortex chamber for inorganic material removal. Grit is then washed and classified before landfill disposal.

Secondary Treatment

The secondary treatment system comprises three parallel treatment trains, featuring 16 aeration basins and 14 secondary clarifiers, supported by integrated air and pumping systems. These trains, designated A, B, and C plants are configured for specific treatment capacities and peak flow rates. A-plant handles 2 MGD (3.2 MGD peak hourly), while B and C plants each process 8 MGD (12.8 MGD peak hourly). Secondary effluent is subsequently routed to either tertiary filtration or percolation basins for final disposal.

Tertiary Treatment

The tertiary treatment system, with a combined 15.0 MGD capacity, utilizes two distinct units: a 10.0 MGD system employing coagulation, flocculation, and dual-media filtration, and a 5.0 MGD system using coagulation and continuous up-flow sand filtration. Both units include chlorine contact mazes for disinfection. Disinfected tertiary effluent is then combined and blended with canal water at the T2 Pump Station wet well for golf course and landscape irrigation. WRP 10 features extensive storage, including two 5 MG lined basins for tertiary effluent, six basins for secondary effluent, and two surface impoundments, one for Colorado River water retention and the other for tertiary effluent/river water blending.

Bio-Solids Treatment

Secondary sludge from the activated sludge treatment units is transferred to the solids handling facility for thickening and dewatering. This facility, comprised of two dissolved air flotation thickeners, a sludge holding tank, and two two-meter belt filter presses, is designed for a daily processing capacity of 36 dry tons.

1.5.5 Sanitary Service Connections

According to the Coachella Valley Water District (CVWD) Code¹⁰, CVWD owns and maintains the public sewer main lines within its service area. These main lines are the publicly owned pipelines that receive wastewater from private sewer laterals (PSL) and transport it to the district's wastewater treatment facilities; the point where this connection occurs is the key demarcation of responsibility. Generally, CVWD's responsibility starts at the point of connection to the public main, which includes the main itself and the fitting (the wye) on the main line.

Regarding the upper and lower laterals, the responsibility lies with the property owner. It's important for property owners to properly maintain their entire private sewer lateral to prevent blockages and potential sewage backups into their property or spills in the public system; this information is provided to the public via the "Understanding Your Private Sewer Lateral Fact Sheet"¹¹ available online. Service lateral connections are identified as the following:

Private Sewer Lateral (PSL)

This is the pipe that carries wastewater from a property to the public sewer main in the street or a nearby easement. The property owner is responsible for maintaining and repairing the entire length of the private sewer lateral. This includes keeping the line free of blockages from grease, tree roots, and debris.

Street Sewer Lateral (SSL)

This is the portion of the private sewer lateral that extends beyond the property line and lies within the public right-of-way. Even though it's in the public right-of-way, the property owner is still responsible for its maintenance and repair.

Building Sewer Lateral (BSL)

This term refers to the pipeline from the connection with the street sewer lateral to the house, building, or structure. The property owner is responsible for the cost of installing and maintaining this portion.

1.5.5.1 Responsibility and Ownership Overview

Identified Domain	Responsibility
Ownership of Public Sewer Mains	CVWD
Responsibility for Public Sewer Mains	CVWD
Ownership of Upper Lateral (PSL, including SSL Lateral)	Property Owner
Responsibility for Upper Lateral (PSL, including SSL Lateral)	Property Owner
Ownership of Lower Lateral (Building Sewer Lateral)	Property Owner
Responsibility for Lower Lateral (Building Sewer Lateral)	Property Owner

¹⁰ Coachella Valley Water District Code be found electronically at: <https://cvwd.district.codes>.

¹¹ CVWD PSL Fact Sheet <https://www.cvwd.org/DocumentCenter/View/6875/Understanding-Your-Private-Sewer-Lateral-Fact-Sheet>.

2 Organization

OBJECTIVES

- Identification of a Legally Responsible Officials.
- Contact details (titles, phone numbers, emails) for all personnel involved in SSMP implementation.
- A clear organizational chart or narrative showing lines of authority.
- A defined communication chain for spill reporting, including who reports to regulatory agencies.

The following chapter outlines the organizational structure and management framework employed by the CVWD to effectively implement and maintain its Sewer System Management Plan (SSMP)¹². This framework is designed to ensure clear lines of authority, defined responsibilities, and efficient coordination across all departments involved in the operation and maintenance of the sanitary sewer collection system. By establishing a robust organizational structure, CVWD is committed to proactive management, regulatory compliance, and the delivery of reliable and sustainable wastewater services to the community.

2.1 Staff Responsibility Distribution

As a multi-faceted agency, the CVWD has found efficiencies in distributing responsibilities through different specialized departments. This distribution of responsibilities is suited more to the abilities of the department personnel, rather than separating departments according to function. The daily work of the wastewater collections system, like the other functions of CVWD, is performed across various departments.

2.1.1 Operations & Maintenance

The Sanitation Department's executive management operational hierarchy designates direct reporting lines from the Supervisors of Collection Systems, Mechanical, and Wastewater Treatment Plants to the Wastewater Operations Manager. This manager, in turn, reports to the Assistant Director of Operations – Sanitation, who reports to the Assistant General Manager of Operations, thereby ensuring comprehensive oversight of all Sanitation Division functions.

Management Key Responsibilities:

- Final oversight of all programs
- Leadership of strategic plan goals

¹² CVWD Organization Webpage: <https://www.cvwd.org/149/Organization>.

2.1.1.1 Collection Systems Maintenance

The Collection System Department is responsible for the comprehensive daily operation and maintenance of the wastewater collection system. This encompasses a wide range of critical functions, including, but not limited to: spill and customer response, collection line maintenance, closed-circuit television (CCTV) inspections, lift station (pump station) maintenance, horizontal (underground) asset repair and replacement, new asset installations, hydraulic system maintenance, and support for wastewater treatment plant maintenance and non-potable facilities.

Key Responsibilities:

- Operation and Maintenance Programs for the sanitary system
- Operation and Maintenance of the lift stations
- Spill Emergency Response
- Monitoring, Measurement and Program Modifications for O&M
- Assistance with Compliance evaluation and reporting

2.1.1.2 Mechanical Maintenance

The Mechanical Shop is responsible for the daily operation and maintenance of the wastewater Mechanical Maintenance Department. Their duties include, but are not limited to, the maintenance and repair of pumps and other mechanical assets at lift stations (pump stations), non-potable facilities, and wastewater treatment plants.

Key Responsibilities:

- Operation and Maintenance of the lift stations and treatment facilities.
- Spill Emergency Response

2.1.2 Facilities & Maintenance

CVWD's Facilities and Maintenance Department is a group of skilled professionals who perform specialized work across department boundaries, affecting each CVWD function. In general, Facilities and Maintenance includes the motor pool (fleet maintenance), building trades, and grounds keeping. Specific to the sanitary collection system, Facilities and Maintenance includes the Electrical and Electronics shop, which is responsible for SCADA, the electrical systems, electrical maintenance, and repair. The respective Supervisor for the Electronic and Electric Shop report to the Assistant Director of Facilities and Maintenance and the Assistant General Manager of Operations.

Key Responsibilities:

- Operation and Maintenance of the lift stations, electrical and electronic components.
- Operation and Maintenance of the SCADA system
- Fleet Maintenance and management

2.1.3 Engineering

The Engineering Department is an integral element in the operation and maintenance of the sanitary collections system. The Sanitation Engineering division is responsible for system design and capacity assurance. The Engineer Manager - Sanitation manages all the functions of Sanitation engineering staff, projects and reports. The Engineering Manager reports to the Director of Engineering.

Key Responsibilities:

- Planning, design, and construction of a wide range of water and sanitary infrastructure
- Directs asset rehabilitation and replacement programs
- Manages project budgets and schedules, including grants and loans for capital projects
- Mapping and record-keeping systems, including GIS
- Construction inspection

2.1.4 Environmental Services

The Environmental Service Division manages and maintains CVWD's regulatory and compliance services and include the Source Control (SC) Department. SC implements and manages the Fats, Oil, and Grease (FOG) Program and have the authority to enforce violations to ensure compliance with the Order. The Source Control Coordinator reports to the Water Resources Manager under the direction of the Director of Environmental Services.

Key Responsibilities:

- Fats-Oils-Grease (FOG) Control Program: permitting, outreach, and inspection
- Implementation of Legal Authority
- Preventing illicit discharges
- Compliance evaluation and reporting

2.1.5 Finance

CVWD staff work with the finance department to ensure appropriate financial processes are completed to demonstrate effective operations and maintenance of CVWD assets and facilities. Working with the Director of Finance, each department prepares annual budgets which are submitted to the General Manager and the Board of Directors for approval.

Key Responsibilities:

- Budget and Financial Support for Capital Improvement and O&M Programs
- Sewer Collection Charge Administration
- Contracts management
- Purchasing and warehouse services

2.1.6 Customer Service and Communication

CVWD is dedicated to providing exceptional customer service through proactive customer relations, efficient processing of service requests, and transparent billing and collections practices. A comprehensive communication program supports these efforts, ensuring clear and timely information dissemination to the residents and businesses we serve in the Coachella Valley.

Key Responsibilities:

- Customer Relations
- Customer Service Requests
- Billing/Collections
- Communication Program
- Web Page Management

2.1.7 Information Systems

The effective operation of CVWD's wastewater system relies on robust information management systems. This includes the support of operational technologies such as Geographic Information Systems (GIS), monitoring systems, and Supervisory Control and Data Acquisition (SCADA) to ensure real-time visibility and control. Furthermore, comprehensive administration and support of these information management systems are essential for maintaining data integrity, system reliability, and informed decision-making across all aspects of wastewater operations.

- Support of operation information management systems (monitoring technologies, SCADA, GIS, etc.)
- Administration and support of information management systems.

2.2 Authorized Staff

Under the direction of the General Manager, the Coachella Valley Water District (CVWD) defines the responsibilities for its wastewater sanitary system as outlined in Chapter 2, "Organization," of the Sanitary Sewer Management Plan (SSMP) and Section 5 of the Sewer System Emergency Response Plan (SERP).

All applications, reports, and information must be certified by duly authorized CVWD staff representatives. The following positions hold the CVWD Legally Responsible Official Authorization: Wastewater Operations Manager, Engineering Manager - Sanitation, Director of Environmental Services, Assistant Director of Operations - Sanitation, and Assistant General Manager of Operations and Maintenance. Each has been authorized in compliance with the requirements outlined in Section 5.1 of State Water Resources Control Board Order No. 2022-0103.

2.3 Authorized Staff Contact Information

Coachella Valley Water District primary phone number: (760) 398-2661, extensions listed below:

Table 7 CVWD Authorized Staff Contact Information

Name	Title/Position	Ext	Email	ID
Nahúm Padilla	Supervisor, Collection Systems	3608	NPadilla@cvwd.org	DS
Grant Roper	Crew Chief, Collections	3444	GRoper@cvwd.org	DS
Felix Bañuelos	Crew Chief, Collections	3627	FBanuelos@cvwd.org	DS
Angel Calderon	Crew Chief, Collections	3629	ACalderon@cvwd.org	DS
Andrew Calhoun	Supervisor, Mechanical	3659	ACalhoun@cvwd.org	DS
Rogelio Salcedo	Crew Chief, Mechanical	3661	RSalcedo@cvwd.org	DS
Mark Quiroz	Wastewater Plant Manager IV	2632	MQuiroz@cvwd.org	DS
Larry Cobb	Wastewater Plant Manager IV	8700	LCobb@cvwd.org	DS
Cristian Castro	Wastewater Plant Manager V,	3667	CCastro@cvwd.org	DS
Vanessa Duong	Sr. Environ. Comp Specialist	2782	VDuong@cvwd.org	DS
Ivan Monroy	Source Control Coordinator	3710	IMonroy@cvwd.org	DS
Luis Torner	Wastewater Ops Manager	3668	LTorner@cvwd.org	LRO
Thomas West	Asst. Dir. of Sanitation O&M	3605	TWest@cvwd.org	LRO
Joanne Le	Dir. of Environmental Services	2286	JLe@cvwd.org	LRO
Armando Rodriguez	Engineering Manager	2365	ARodriguez@cvwd.org	LRO
Dan Charlton	Assistant General Manager	2316	DCharlton@cvwd.org	LRO
Lorraine Garcia	Public Information Officer	2549	Lorraine.Garcia@cvwd.org	-
Greg Papazian	Emergency Management	2799	GPapazian@cvwd.org	-
Nashchely Espinoza	Safety Officer	3427	Nashchely.Espinoza@cvwd.org	-
Blanca Garcia	Claims – Risk Management	2243	BGarcia@cvwd.org	-

2.4 Legally Responsible Official

The Legally Responsible Official (LRO) bears ultimate accountability for the accuracy and completeness of all submitted data. To ensure comprehensive oversight and compliance with CVWD regulations, LROs are strategically appointed from key divisions, including Operations and Maintenance, Engineering, and Environmental Services, reflecting their overall management responsibilities for the entire system. Furthermore, these designated LROs must possess the requisite authority to make critical managerial decisions, encompassing recommendations for major capital improvements and the enforcement of environmental compliance actions.

2.4.1 LRO Authority

The Legally Responsible Official must have or have direct authority over individuals that:

- Possess a recognized degree or certificate related to operations and maintenance of sanitary sewer systems, and/or have;
- Professional training and experience related to the management of sanitary sewer systems, demonstrated through extensive knowledge, training and experience.

2.4.2 LRO Reporting

LRO's shall report spills and certify reports specific to staff and department or Division they oversee with support from the Wastewater Operations Manager.

2.4.3 CVWD Legally Responsible Officials

Name	Position
Luis Torner	Wastewater Operations Manager*
Thomas West	Assistant Director of Operations – Sanitation
Armando Rodriguez	Engineering Manager – Sanitation
Joanne Le	Director of Environmental Services
Dan Charlton	Assistant General Manager, Operations and Maintenance

*Primary delegated reporting LRO for CVWD Operations and Maintenance.

2.5 Data Submitters

Data submitters are authorized individuals designated by a Legally Responsible Official (LRO) to input data into the State Water Resources Control Board's (SWRCB) electronic systems on behalf of a facility or system, operating under the LRO's delegated authority. Department heads within the LRO's organization will appoint data submitters to report spill-related information for the following departments: Operations and Maintenance, encompassing Collection Systems, Mechanical, and Wastewater Treatment; Environmental Services, including Source Control and Water Quality; and Engineering, specifically Sanitation.

2.5.1 Data Submitter Authorization

This appointment must be completed through the online California Integrated Water Quality System (CIWQS) database. Only individuals authorized by a CVWD LRO are permitted to submit spill data. These designated submitters must possess the capability to report spills specific to staff and department they oversee with support from the Collection System Supervisor. Any changes to the designated Data Submitters or their contact information must be reported to the State Water Board and the appropriate Regional Water Board within 30 days via email.

2.5.2 CVWD Data Submitters:

Name	Position
Nahúm Padilla	Collection System Supervisor*
Grant Roper	Crew Chief, Collections Construction
Felix Bañuelos	Crew Chief, Collections Maintenance
Angel Calderon	Crew Chief, Collections Operations
Andrew Calhoun	Mechanical Maintenance Supervisor
Rogelio Salcedo	Crew Chief, Mechanical
Mark Quiroz	Wastewater Plant Manager IV, WRP-4,2,1
Larry Cobb	Wastewater Plant Manager IV, WRP-7
Cristian Castro	Wastewater Plant Manager V, WRP-10
Vanessa Duong	Senior Environmental Compliance Specialist
Ivan Monroy	Source Control Coordinator

*Primary delegated Data Submitter for CVWD Operations and Maintenance.

2.6 CVWD Authorized Staff Organization Chart

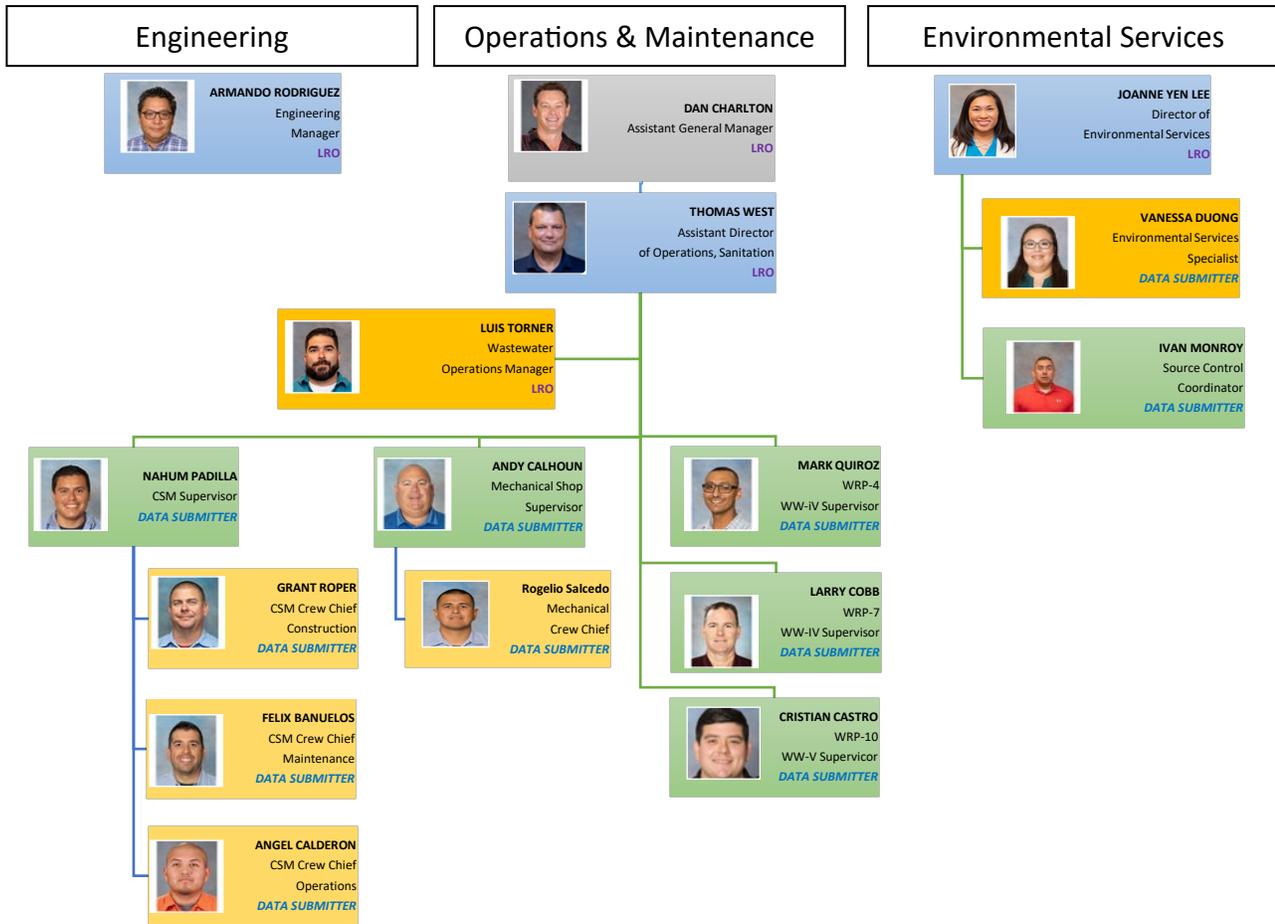


Figure 5 CVWD Authorized Staff Organizational Chart

2.7 Spill Reporting Chain of Communication

Detailed chain-of-communication responsibilities for spill response and regulatory reporting are outlined in the Spill Emergency Response Plan (SERP), and available in the Flow Chart (Figure 6, Page 2-30) of this Sewer System Management Plan (SSMP).

2.7.1 Two-Level Response Approach

2.7.1.1 Initial Response

Upon a potential spill report, the Emergency Coordinator is notified, triggering a remediation team evaluation. If a spill is confirmed, an Incident Commander assumes responsibility for containment, cleanup, and repair. Concurrently, CVWD authorized staff, the Public Information Officer, and the Claims and Safety Officer are notified.

2.7.1.2 Regulatory Reporting

The Emergency Coordinator collaborates with the Reporting Coordinator (Data Submitter) to contact any required regulatory agency or entity within the obligatory period, if any, and to initiate the preparation of a spill report for electronic submission into the California Integrated Water Quality System (CIWQS).

2.7.2 Report Review and Certification

2.7.2.1 Operations and Maintenance Department

The Assistant General Manager of Operations (delegated Wastewater Operations Manager or Assistant Director of Operations - Sanitation) electronically reviews, enters, and certifies the final report, serving as the primary reporting support division.

2.7.2.2 Engineering Department

The Engineering Manager – Sanitation electronically reviews, enters, and certifies the final report for spills associated with CIP projects.

2.7.2.3 Environmental Services Department

The Director of Environmental Services electronically reviews, enters, and certifies the final report for spills associated with Environmental Services.

This structured process ensures clear communication and accountability for effective spill response and accurate regulatory reporting.

LEGEND

SSS = SPILL
CO = CONTROL OPERATOR
CSR = CUSTOMER SERVICE REPRESENTATIVE

FR = FIRST RESPONDER
REGULAR WORK HOURS:
 a) Service Worker, Technician, Operator
 b) Crew Chief, Assistant Supervisor, Program Coordinator

NIGHTS AND WEEKENDS – OFF NORMAL WORK HOURS
 a) Assigned Standby Staff
 b) Service Worker, Technician, Operator
 c) Crew Chief, Assistant Supervisor, Program Coordinator

IC = INCIDENT COMMANDER
 a) Senior Service Workers
 b) Crew Chief, Assistant Supervisor, Program Coordinator
 c) Supervisor, Specialist, Manager

EC = EMERGENCY COORDINATOR
REGULAR WORK HOURS:
 a) Crew Chief, Assistant Supervisor, Program Coordinator
 b) Supervisor, Specialist, Manager
 c) Assistant Director, Director

NIGHTS AND WEEKENDS – OFF NORMAL WORK HOURS
 a) Assigned Standby Staff
 b) Supervisor, Manager
 c) Staff Standby

PIO = PUBLIC INFORMATION OFFICER
 a) Communication Specialist
 b) Communication Manager
 c) Director of Service

HR = SAFETY & CLAIMS PERSONNEL
REGULAR WORK AND/OR OFF NORMAL WORK HOURS
 a) Risk Management Specialist/Senior
 b) Safety & Training Specialist/Assistant
 c) Emergency Response Administrator
 d) Human Resources Director

RC = REPORTING COORDINATOR
REGULAR WORK HOURS:
 a) Supervisor, Crew Chief, Specialist, Manager
 b) Assistant Director, Director

NIGHTS AND WEEKENDS – OFF NORMAL WORK HOURS
 a) Assigned Standby Staff
 b) Supervisor, Manager
 c) Staff Standby

AU = AUTHORIZED STAFF
 a) Data Submitters
 b) Legally Responsible Official

*California Office of Emergency Services (OES) (2hrs) and the Department of Public Health are notified when SSS is greater than or equal to 1,000 gallons discharge or is and/or potentially will be discharged to surface water. The RWQCB requires notice within 24hrs, via email.

**The CVWD Environmental Services Division is notified when an SSS of 50,000 gallons or greater are spilled to surface water and/or spill sampling is required.

*** CVWD Staff Standby is available off normal hours

SANITARY SPILL EMERGENCY RESPONSE PLAN
SPILL RESPONSE FLOW CHART

Refer to the CVWD SERP, CVWD SOP's and the WDR 2022-0103-DWQ Order for detailed guidance of the spill response process. Not intended to supersede the CVWD ERP.

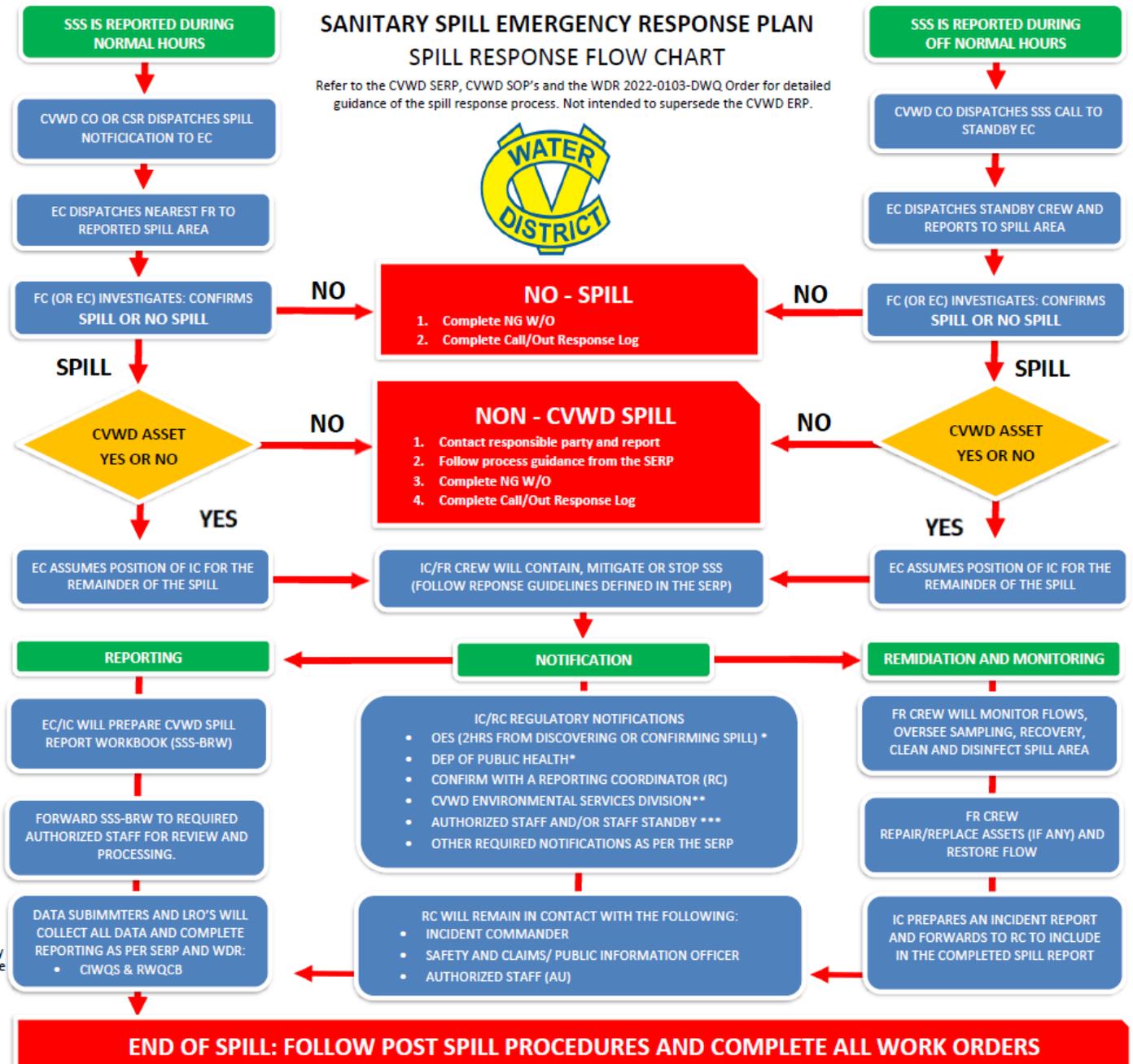


Figure 6 Spill Response Chain of Command Flow Chart

3 Legal Authority

OBJECTIVES

Demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:

- Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.);
- Require that sewers and connections be properly designed and constructed;
- Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;
- Limit the discharge of fats, oils, and grease and other debris that may cause blockages,
- Enforce any violation of its sewer ordinances.

The Sanitation mission of the Coachella Valley Water District (CVWD) is authorized under California Water Code Division 12, Part 5, Chapter 1, Article 6, et. seq. (Section 31100, et. seq.)¹³. In addition to this State law, CVWD has Code Ordinance 1442.3, Chapter 4.05 Sanitation Service, in place. CVWD utilizes a range of enforcement tools and policies to ensure compliance with its ordinances and state regulations. These include fines for water use violations, penalties for non-functional turf irrigation, general liability provisions for damages, and adherence to the SWRCB's enforcement policies for water quality matters.

3.1 Coachella Valley Water District Code - Ordinance 1442.3

CVWD has the legal authority to:

- Prevent illicit discharges
- Require proper design and construction of sewers and connections
- Access facilities for maintenance, inspection and repairs
- Limit the discharge of fats, oils and grease, and debris
- Enforce the provisions of its Sanitary Code

Enforcement provisions are found in the CVWD's Code¹⁴ (District or Sanitary Code).

Violations of the Code can be addressed through criminal, judicial, and/or administrative action and CVWD may assess monetary fines as well.

District Code is current through Ordinance 1442.3, passed January 14, 2025. The General Manager is authorized to implement and enforce these policies, including revising the CVWD Development Design Manual. CVWD Code is updated periodically, and at the time of this

¹³ CA Code Division 12, Part 5, Chapter 1, Article 6, et. seq. (Section 31100, et. seq.)

https://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=WAT§ionNum=31100.

¹⁴ Coachella Valley Water District Code be found electronically at: <https://cvwd.district.codes>.

printing, the most current compilation of the ordinance is January 14, 2025, which includes approved amendments. Ordinance 1442.3 is the updated version of Ordinance 1427.5, 1427.3 and 1138.

3.1.1 Sanitation – CVWD Code Chapter 4

This Sewer System Management Plan (SSMP) is required to demonstrate that Coachella Valley Water District (CVWD) has the proper legal authorities for specific concerns listed in Order WQ 2022-0103-DWQ, references for District Code Article II, III, VIII, IX, and X are summarized below¹⁵:

3.1.1.1 Article II Authority

Outlines the authority and administrative procedures related to the regulations of CVWD staff. Such as allowing authorized CVWD employees, with proper identification, to enter properties for operational or enforcement purposes. Individuals representing the General Manager who are not CVWD employees must display CVWD credentials.

3.1.1.2 Article III Service Connections

Details the rules and procedures for service connections to the sanitation system, covering sewer lateral responsibility and maintenance, interceptors/separators, and authorization.

3.1.1.3 Article VIII Sewer Extensions, Easement Requirement

Sewer extensions must be located in streets, easements provided by the applicant, easements obtained by CVWD, or property deeded to CVWD. This ensures CVWD has legal access for the operation and maintenance of the sewer facilities, including:

- Applicants are required to provide CVWD with necessary easements or deeds before sewer extension installation.
- Easement accessibility agreements for locations requiring sewer system operations and maintenance are maintained and managed by Engineering and are available on the CVWD website: Development Design Manual, Appendix F-Right-of-Way¹⁶.

3.1.1.4 Article IX Regulations of Wastes and Water

Focuses on regulating waste and water discharges into the sanitation system, summarized in section 4.05.360 Prohibited and Controlled Discharges. CVWD's sewer discharge regulations prohibit the introduction of hazardous substances, including flammable, corrosive, and toxic materials, as well as solids and pollutants that obstruct flow or impair treatment processes. Controlled discharges, requiring prior written consent, encompass high-strength wastes, specific industrial byproducts, and non-standard flows, such as high-salinity brines and excessive fats, oils, and grease, to safeguard system integrity and treatment efficacy.

¹⁵ Coachella Valley Water District Code be found electronically at: <https://cvwd.district.codes>.

¹⁶ DDM Appendix F- Right-of-Way - https://www.cvwd.org/209/Appendices#tab5769f702-63b4-4d4f-ae2e-7140d4b12c4f_4.

3.1.1.5 Article X Enforcement

Established as a means of enforcement of the terms and conditions of these regulations, and not as a penalty. All persons shall be held strictly responsible for any and all acts of tenants, agents or employees done under the provisions of these regulations and can lead to abatement of public nuisance. Any person violating any of the provisions of these regulations is liable to CVWD for any expense, loss or damage occasioned by CVWD by reason of these regulations. (Ord. 1427.6 § 10-1, 2024).

Anyone desiring an official copy of Ordinance 1442.3¹⁷ or Easement Agreements may contact CVWD's Clerk of the Board at (760) 398-2661, ext. 2217 and complete a public information request.

¹⁷ Coachella Valley Water District Code be found electronically at: <https://cvwd.district.codes>.

4 Operation and Maintenance Program

OBJECTIVES

- Mapping System of CVWD Sanitary Sewer System
- Preventive - Operation and Maintenance Activities
- Rehabilitation and Replacement of Assets
- Training
- Equipment Inventory

This chapter of the Sewer System Management Plan (SSMP) details the Coachella Valley Water District's (CVWD) comprehensive Operation and Maintenance program for its sanitary sewer collection system. The program is designed to ensure the collection system is operated and maintained in alignment with the goals outlined in Chapter 1 of this SSMP.

The collection system serves approximately 265,000 customers through 105,180 service connections. Wastewater from residential and industrial/commercial users is conveyed to one of five Wastewater Reclamation Plants. The system infrastructure comprises approximately 1,228 miles of sewer pipelines (76 miles of force main), 25 lift stations, and 22,355 manholes. The average daily wastewater flow in 2024 was 17.36 million gallons¹⁸, with projected increases anticipated.

This Operation and Maintenance Plan is structured into five parts, corresponding to the elements specified in Waste Discharge Requirement 2022-0103:

Part 1 - Mapping:

Addresses CVWD's mapping and asset location systems.

Part 2 - Preventive Maintenance – O&M:

Details CVWD's preventative maintenance strategies.

Part 3- Rehabilitation and Replacement:

Outlines the CVWD's approach to infrastructure rehabilitation and replacement.

Part 4 - Training:

Describes CVWD's personnel training programs.

Part 5 - Equipment and Replacement Parts Inventories:

Details of CVWD's equipment and replacement parts management.

¹⁸ CVWD 2024 AWWA Benchmark Survey, Completed by Engineering.

4.1 Part 1 – Mapping

4.1.1 Sewer System Mapping Information

In 2024 the Coachella Valley Water District (CVWD) prioritized the utilization and implementation of a GIS system, based on the ESRI platform, integrated with the NEXGEN CMMS for mapping and asset management. This system includes detailed GIS layers containing as-built information, asset identification, location, material specifications, and other critical attributes. Since 2023, field personnel have been equipped with mobile technology providing real-time access to CMMS and mapping software, enhancing reporting capabilities and staff efficiency.

4.1.1.1 Maps of the Sanitary Sewer System

CVWD is actively working to enhance data accessibility for regulatory compliance. In accordance with Attachment E1 of General Order 2022-0103-DWQ, the CVWD Sanitation Boundary Map¹⁹ is currently available electronically online. Furthermore, CVWD is in the process of developing an access layer for the State and Regional Water Boards. This will provide the ability to view map(s) displaying gravity line segments, manholes, pumping facilities, pressure pipes, valves, and applicable stormwater conveyance facilities within the sewer system service boundaries. This functionality will be implemented in a future update of this Sewer System Management Plan.

4.1.2 Updates to Existing Drawings

All mapping is maintained by the CVWD Engineering Department. The Business Technology Information Systems Department and Engineering are responsible for updating GIS maps as facilities are added, rehabilitated, and as corrections are identified through field work and reported to the Asset Management team.

To ensure accurate and efficient management of the sanitary sewer system, all future mapping and drawing activities will be conducted utilizing Geographic Information System (GIS) and Computerized Maintenance Management System (CMMS) platforms as primary tools. This strategic implementation will facilitate precise spatial representation, streamline maintenance operations, and enhance data-driven decision-making. This approach also incorporates the developed Sewer Collection System Master Plan (Dated May 2021), which includes modeling and additional mapping on the system hydraulic data for future planning.

¹⁹ CVWD Sanitation Boundary Map <https://www.cvwd.org/DocumentCenter/View/1017/Sanitation-Service-Area-Map-PDF?bidId=>

4.1.2.1 Legacy Mapping

CVWD's digital and hardcopy plat sheets²⁰, legacy mapping tools displaying collection system components and facility records, will no longer be updated as of 2023. These sheets provide information on laterals, pipeline sizes, maintenance holes, lift stations, and air-relief valves, with electronic versions linking to digital record drawings.

4.1.3 Stormwater Conveyance Facilities

Stormwater conveyance facilities are located throughout the cities and towns within the CVWD service area. This information is also maintained as distinct layers within the CVWD's Geographic Information System (GIS). When accurate and up-to-date, storm drain maps are utilized to determine potential spill routing, enabling the strategic blocking of storm drains to contain spill volumes before they reach identified water bodies.

4.1.3.1 Maps of Stormwater Conveyance Facilities

As mentioned, CVWD is in the process of developing an access layer for the State and Regional Water Boards. This will provide the ability to view map(s) displaying gravity line segments, manholes, pumping facilities, pressure pipes, valves, and applicable stormwater conveyance facilities within the sewer system service boundaries. This functionality will be implemented in a future update of this Sewer System Management Plan.

²⁰ *Coachella Valley Water District Standards for Legal Descriptions and Plats*
<https://www.cvwd.org/DocumentCenter/View/989/CVWD-Standards-for-Legal-Descriptions--Plats-PDF?bidId=>

4.2 Part 2 – Preventative Maintenance – O&M

The CVWD utilizes NEXGEN as its computerized maintenance management system (CMMS) to streamline service call management and automate work order generation for preventative and corrective maintenance. This system maintains a comprehensive historical record for each pipe segment, enabling data-driven prioritization of the semi-annual maintenance schedule. The CMMS work order functionality was implemented in February 2023 to enhance operational efficiency.

All service calls and associated work orders are meticulously recorded within the CMMS. CVWD provides “round-the-clock” customer support, with CVWD staff and an after-hour answering service available 24/7 to receive and address customer inquiries. Each customer call is documented, and a corresponding work order is generated within the CMMS to ensure prompt and effective resolution of customer complaints and requests.

4.2.1 Maintenance Management System

NEXGEN’s enhanced asset management provides CVWD with tools to efficiently manage its collection system assets, including pipelines, maintenance holes, lift stations, and other infrastructure. The software facilitates the organization of asset hierarchies, enabling detailed tracking of asset conditions and lifecycles.

NEXGEN’s work order and preventive maintenance modules, streamline maintenance scheduling and execution allows CVWD to proactively address potential issues, reducing downtime and costly repairs. The system supports the scheduling of both routine maintenance and targeted “repeated” cleaning, optimizing resource allocation.

4.2.2 Collection Line Maintenance

Gravity sewer maintenance referred to as Collection Line Maintenance (CLM) is scheduled and managed through CMMS. Detailed records of maintenance activities and cleaning results are maintained within CMMS for each pipe segment. Work orders generated by CMMS facilitate the scheduling of both high-frequency 'hotspot' cleaning and routine system-wide maintenance of pipes and siphons. This program is identified as the Collection Line Maintenance Program or CLM. Field staff use tablets for real-time data entry. The Coachella Valley Water District (CVWD) Collection Line Maintenance (CLM) program employs a two-tiered approach to sewer pipeline preventive maintenance; annual system-wide preventative maintenance and targeted repeat cleaning.

Annual System-Wide Preventive Maintenance

- Routine Cleaning Cycle: All sewer pipelines are systematically cleaned, or CCTV inspected on a 5- to 7-year cycle to maintain optimal flow and prevent blockages.
- Integrated CCTV Inspection and CLM Programs: Cleaning operations are coordinated with the CCTV Sewer Inspection Program to achieve a combined cleaning and inspection rate of 220 miles annually.
- Efficiency and Optimization: CCTV inspections serve to verify the efficacy of the cleaning process and identify any areas where further maintenance is required, minimizing unnecessary cleaning of a clean asset.
- Resource Allocation: This annual maintenance is executed through a combination of contracted services and internal resources.

Targeted Repeat Cleaning

- High-Frequency Maintenance: A comprehensive list of sewer lines, identified through historical problem records and video inspections, undergoes scheduled repeat cleaning.
- Variable Cleaning Intervals: Cleaning frequencies are tailored to the specific needs of each identified segment, ranging from monthly to semi-annual intervals.
- Detailed Listing: Repeat cleaning schedules are provided in Attachment B.
- Scope of Work: The targeted cleaning program encompasses approximately 95,384 linear feet (18 miles) of sewer lines. Due to repeat cleaning preventative maintenance schedule frequency, this results in a cumulative annual cleaning of 73.54 miles per year minimum.

4.2.2.1 CLM Repeat Cleaning Records

To ensure effective maintenance, field personnel maintain detailed repeat cleaning records during system inspections and cleaning operations. These records facilitate data-driven scheduling, allowing locations prone to issues such as excessive Fats, Oils, and Grease (FOG) buildup or flow obstructions to be added to the cleaning schedule with appropriate maintenance frequencies. A detailed listing of the repeat cleaning schedules is provided as Attachment B.

Table 8 CLM Repeat Cleaning PM Schedules

CLM Schedule	LF Per Schedule	Frequency (per year)	Tota LF
Monthly	8808	12	105,700
Quarterly	39985	4	159,939
Quarterly Night Work	3769	4	15,077
Semi-Annual	37351	2	74,701
Semi-Monthly	5480	6	32,882
Total Estimated Linear Feet (LF) Per Year			388,300
Total Estimated Miles Per Year			73.54

4.2.3 Sewer System Inspection Program

The CVWD Collection System Department maintains a comprehensive sewer inspection program encompassing both visual and video inspections, conducted on a routine basis and is summarized as follows:

4.2.3.1 Manhole System Inspection Program

Automated scheduled preventative maintenance targeted Inspections collection systems staff conduct visual assessments of identified areas of concern, generating work orders for necessary repairs or maintenance of approximately 22,355 manholes. System inspection focuses on:

- System Monitoring: Perform visual evaluations of flow levels, manhole conditions, and overall system functionality, documenting any observed anomalies or deficiencies.
- Capacity Management Data Collection: Gather and record relevant data to support future capacity management planning.
- Manhole Condition Assessment (Manhole System Inspection): Performance of scheduled inspections to assess structural conditions (Conditional Grading System) and identify potential maintenance needs; automated scheduled workorders managed and created by NexGen software are based on historic O&M data.
- Manhole System Inspection Program is completed simultaneously with the Vector Control Program following parallel scheduled frequency in each respective preventative maintenance schedule.

4.2.3.2 CCTV Sewer Inspection Program

The CVWD maintains two dedicated CCTV inspection vehicles, supplemented by additional equipment, and operated by a fully trained crew. Furthermore, CVWD's Collection System Staff maintain certifications in PACP (Pipeline Assessment and Certification Program).

Key Program Components:

- Structural Integrity Assessment: Conduct internal video inspections of the collection system to evaluate structural stability and identify potential weaknesses or defects.
- Blockage Investigation and Documentation: Perform post-stoppage video inspections to pinpoint the location and nature of obstructions or blockages within the sewer lines, such as roots.
- Contractor Quality Assurance: Utilize video inspections to assess the quality of cleaning services performed by external contractors.
- Capital Improvement Planning: Conduct video inspections to support the identification and planning of future capital improvement projects.
- Acquired System Evaluation: Perform video inspections of newly acquired sewer systems, if requested by the Inspection Department and approved by department heads, to evaluate existing conditions and verify as-built documentation.

4.2.4 Vector Control Program

The CVWD maintains a comprehensive vector control program to protect public health and sewer system integrity. This program, addressing cockroach populations fostered by the inherent moisture and organic matter in sewer systems, utilizes a two-tiered maintenance strategy: annual preventative maintenance (PM) and targeted corrective maintenance.

4.2.4.1 Manhole Treatment

An annual preventative maintenance schedule is implemented to proactively manage vector populations within the sanitary sewer system. This schedule encompasses the following key components:

- Targeted Pesticide Applications: Where necessary, the judicious application of approved pesticides, including boron-based products, is performed in targeted areas to control cockroach populations.
- Population Monitoring and Efficacy Assessment: Ongoing monitoring of pest populations is conducted to evaluate the effectiveness of the control measures and inform adaptive management strategies as a result of other preventative maintenance activities completed by Collections staff.
- Routine System Inspections: Regular inspections of sewer lines and manholes are conducted to identify areas of pest activity and potential harborage. The CVWD Vector Control Program is completed simultaneously with the Manhole System Inspection Program following parallel scheduled frequency in each respective preventative maintenance schedule.

Environmental Compatibility

CVWD's vector control program primarily utilizes boron-based compounds for targeted cockroach treatment within its sanitary sewer system, prioritizing environmental and operational compatibility. Boron compounds, such as boric acid, are recognized for their efficacy in cockroach control.

Corrective Maintenance

Corrective treatment work requests pertaining to vector control is performed on an as-needed basis, resulting from customer service calls, post treatment corrective actions may involve:

- Post-Treatment Monitoring: After corrective actions are taken, ongoing monitoring is performed to evaluate the effectiveness of the treatment.
- Data Collection: Detailed records of treatment application asset locations and system conditions are maintained to inform future corrective and preventative maintenance strategies.
- Adaptive Management: Corrective maintenance allows for adjustments based on monitoring data.

4.2.5 Manhole Remote Monitoring Program

The CVWD has implemented a Remote Monitoring Manhole Program to enhance spill prevention capabilities within its sanitary sewer system. This program leverages advanced technology to provide real-time monitoring and proactive management of manhole and collection system conditions. Remote monitoring devices installed in strategic manhole locations provide continuous remote monitoring of key parameters, such as hydrogen sulfide concentrations, wastewater levels, and other potential spill conditions. The CVWD Collections Department currently has eight units deployed in the sanitary sewer system.

4.2.5.1 Program Focus and Inspection Frequency

Spill Prevention is the primary objective of this program is to mitigate the risk of sanitary sewer spills by proactively identifying and addressing potential issues within manholes.

Program Components:

Remote monitoring technology devices equipped with sensors to monitor manhole conditions. These devices transmit real-time data to a centralized monitoring system, enabling early detection of potential spills, benefits of a remote monitoring program include:

- Remote Monitoring and Alerting:
 - The centralized monitoring platform allows CVWD staff to receive and analyze data from monitoring devices.
 - Automated alert systems to notify CVWD personnel of critical conditions, such as rising water levels or potential blockages.
- Proactive Maintenance and Response:
 - Utilization of monitoring data to schedule proactive maintenance activities, such as cleaning and inspection, to prevent potential spills.
 - Establishment of rapid response protocols to address alerts and mitigate potential spill events.

Inspection Frequency:

- Continuous remote monitoring is supplemented with a formal field inspection schedule of field equipment, this approach ensures consistent data review and proactive system equipment field assessments.
- This continual PM allows for both reliable real time alerts and scheduled preventative maintenance.

4.2.6 Manhole Rehabilitation Program

The CVWD employs dedicated staff to execute the operation and maintenance of approximately 23,300 existing maintenance holes. CIP rehabilitation projects pertaining to manholes are managed by the CVWD Engineering Department in collaboration with Operations and Maintenance. Corrective repair and replacement work pertaining to sanitary manholes is performed on an as-needed basis by the Collection System Department, encompassing the following key activities:

- **Frame and Cover Assembly Replacement:** Replacement of deteriorated or worn frame and cover assemblies to ensure structural integrity and public safety.
- **Concrete Collar Replacement:** Replacement of damaged concrete collars to maintain proper maintenance hole support and prevent infiltration.
- **Grade Adjustment and Location:** Location and elevation adjustment of maintenance holes to align with street improvements, ensuring accessibility and functionality.

4.2.7 Odor Management Control Program

The Coachella Valley Water District (CVWD) implements a comprehensive Odor Management Program to mitigate potential odor nuisances emanating from its wastewater collection system. This program employs a multi-faceted approach, encompassing regular inspections and the strategic application of odor control technologies.

4.2.7.1 Odor Program Components

These inspections include evaluating areas prone to odor generation, such as manholes, lift stations, force mains, and critical pipeline segments

- **Weekly, Monthly and Quarterly Inspection and Monitoring:**
- Routine weekly inspections are conducted throughout the collection system to identify and assess potential odor sources.

Chemical Odor Control Technologies

CVWD utilizes chemical odor control agents to neutralize and suppress odor-causing compounds. The selection and application of these chemicals is tailored to specific odor sources and environmental considerations.

Passive Odor Control (Charcoal Filtration)

Passive odor control systems, utilizing charcoal filtration, are deployed in strategic locations to adsorb and remove odor-causing gases. These systems provide a sustainable and effective means of odor mitigation, particularly in sensitive areas.

4.2.8 Hydraulic System Maintenance

A hydraulic system is comprised of force mains and Sanitary Air/Vacuum Release (Air-Vac) Valves. The CVWD operates an extensive force main system, encompassing approximately 76 miles of pipelines ranging from 4 to 18 inches in diameter, responsible for conveying sewage to various wastewater treatment plants. This system also includes approximately 132 air vacuum/air release units and approximately 231 system operating valves.

Sanitary Air/Vacuum Release Valve (AV or Air-Vac) Details

Preventative maintenance of AV's located within force main/facilities of the CVWD Sanitary System to mitigate pressures caused by surges within the pipeline. Air-Vacs are critical components, strategically positioned at high points within the force main system. They perform two essential functions:

1. **Air Release During Filling:** AV valves facilitate the expulsion of accumulated air during the filling of force main pipelines. Upon reaching the valve, the fluid level causes the float to rise and seal against the valve seat/cover flange.
2. **Vacuum Prevention During Draining:** In the event of intentional or accidental pipeline drainage, AV valves respond to pressure loss by opening, allowing air to re-enter the system and preventing potentially damaging vacuum formation

O&M activities for the sewer force main system are structured as follows:

4.2.8.1 Hydraulic System Inspection

- **Routine Visual Inspections:** Comprehensive visual surface inspections of all force mains and air vacuum unit vaults are conducted at a monthly PM frequency.

4.2.8.2 Air-Vac Maintenance

- **Preventive Maintenance of AV Units:** Air vacuum units are cleaned, flushed, and repaired as needed, with a minimum frequency of once per month, to ensure optimal functionality.

4.2.8.3 Valve Exercising

- **Valve Exercising and Maintenance:** System operating valves are located, marked, and exercised on an annual frequency, or as-needed basis (corrective work) to maintain operational integrity.

4.2.9 Lift Station Maintenance

Wastewater lift stations (pump stations) are critical infrastructure components designed to facilitate the conveyance of wastewater from lower to higher elevations through pressurized pipelines (force mains). These facilities comprise key elements including a wastewater wet well, pumps and associated piping with valves, motors, a power supply system, an equipment control and alarm system, and odor control and ventilation systems.

The Coachella Valley Water District (CVWD) currently operates and maintains 25 sewage lift stations throughout its sanitary system. The operation, maintenance, and inspection of these facilities are executed through a collaborative effort between the Collection Systems, Mechanical, Electrical, and Electronics departments within CVWD.

Operational, Maintenance, and Inspection Activities (Collection Systems Section):

The Collection System Department is responsible for the specialized operational maintenance of CVWD's wastewater lift stations. Their key responsibilities include:

- **Operational Flow Management:** Make informed operational decisions regarding wastewater diversion and pumping between treatment plants, in close coordination with supervisory treatment plant operators and treatment plant staff.
- **Wet Well Cleaning and Maintenance:** Conduct routine cleaning of wet wells using combination trucks on a monthly, quarterly, or as-needed basis to remove grease and debris accumulation, thereby preventing pump failures and mitigating odor issues.
- **Emergency Bypass System Deployment:** Install and maintain emergency engine-driven portable pump bypass systems to ensure uninterrupted wastewater flow during maintenance or emergencies.
- **Chemical Grease Control:** Employ degreasers and other appropriate chemicals to address grease buildup in wet wells where combination truck access is restricted.
- **Mechanical Support:** Provides assistance to Electrical and Mechanical Department personnel during pump repair or replacement activities.
- **Pump Performance Monitoring:** Monitor pump run times and report any abnormal pump operation to Mechanical Technicians for timely intervention.
- **Grounds Maintenance:** Conduct routine weekly inspection and maintenance of lift station grounds to ensure site integrity and accessibility, including odor management.

Operational, Maintenance, and Inspection Activities (Mechanical Section):

The Mechanical Technicians and Facilities and Maintenance Department are responsible for the specialized mechanical maintenance of CVWD's wastewater lift stations. Their key responsibilities include:

- **Routine Mechanical Equipment Inspection:** Conduct regular inspections of all mechanical equipment to ensure optimal operational performance and identify potential maintenance needs.
- **Pump and Motor Preventive Maintenance:** Implement and execute comprehensive preventive maintenance programs for pumps and motors to maximize equipment lifespan and minimize downtime.
- **Mechanical Support:** Provides assistance to F&M and the Collections Department personnel during lift station maintenance, repair, installation, or replacement activities.
- **Grounds Maintenance:** Conduct routine inspection and maintenance of lift station grounds to ensure site integrity and accessibility, including chemical odor equipment management.
- **Emergency Bypass System Deployment:** Install and maintain emergency engine-driven portable pump bypass systems to ensure uninterrupted wastewater flow during maintenance or emergencies.

Operational, Maintenance, and Inspection Activities (Facilities and Maintenance):

The Facilities and Maintenance Department are responsible for the specialized mechanical maintenance of CVWD's wastewater lift stations. Their key responsibilities include:

- **Electrical and Electronic Control Maintenance:** Perform maintenance on electrical and electronic control systems, generators, and collaborate with the Collection Systems Department to establish and maintain accurate set points for automated equipment at lift stations.
- **Supervisory Control and Data Acquisition (SCADA) System Maintenance:** Maintain the SCADA system to ensure reliable remote monitoring and control of lift station operations.
- **Mechanical Support:** Provides assistance to Operations and Maintenance personnel during lift station maintenance, repair, installation, or replacement activities

4.2.10 Root Control Program

The Root Control Program (Chemical Treatment) is administered by the Collection Systems Maintenance Department. This preventative maintenance root control program aligns with SWRCB Order 2022-0013-DWQ by employing systematic data review and analysis for targeted high-risk area identification, prioritizing treatment based on risk and potential impact, diligently documenting all treatment activities. The Coachella Valley Water District (CVWD) Collections Department proactively manages and mitigates root intrusion within the sanitary sewer collection system, preserving system capacity, reducing blockages, minimizing sanitary sewer spills, and extending the lifespan of infrastructure in a cost-effective and environmentally responsible manner.

4.2.10.1 Program Frequency

Targeted application on a three-year cycle for designated high-risk areas within the collection system.

4.2.10.2 Chemical Treatment Method

Application of an approved chemical root control agent, Duke's Root Control primarily uses a diquat-based herbicide in their exclusive product to inhibit root growth within sewer lines. All chemical applications will strictly adhere to manufacturer guidelines, safety protocols, and environmental regulations.

4.2.10.3 Analysis and Prioritization

The core of the Root Control Program is based on data review, analysis and prioritization:

Data Review and Analysis

To effectively identify high-risk areas for preventative root control, a comprehensive assessment will be conducted. This involves a thorough review of historical blockage data (including frequency, location, and documented root presence), detailed analysis of CCTV inspection records to pinpoint existing root intrusion, pipe defects, and proximity to aggressive vegetation, evaluation of customer complaints concerning sewer backups and slow drains, and the utilization of GIS mapping to visualize and prioritize potential problem zones based on these integrated data layers and landscaping features.

Prioritization

Prioritized treatment areas will be determined by evaluating the severity and frequency of root-related issues, existing pipe material and condition, and the potential impact of blockages, particularly concerning sensitive environmental areas and critical infrastructure. Subsequently, budget allocation will align with these prioritized zones and associated chemical and labor costs. Comprehensive documentation of all treatment activities, including dates, locations, chemical specifications, application details, personnel, and any relevant observations, will be meticulously maintained.

4.3 Part 3 – Rehabilitation and Replacement

The CVWD annually develops a five-year Capital Improvement Budget (CIB), encompassing both capital improvement and capital replacement projects.

4.3.1.1 Capital Improvement Projects:

These projects address increased demands on the Coachella Valley Water District’s (CVWD) collection system resulting from customer base expansion. Funding is primarily derived from developer impact fees, specifically the Sanitation Capacity Charge (SCC), levied on a per-unit basis for new development. CVWD also accepts in-kind contributions of developer-constructed facilities, which may offset or fully cover SCC obligations. Capital Improvement Projects can be referenced in the Sanitation Master Plan²¹ available electronically on file.

4.3.1.2 Capital Replacement Projects:

These projects focus on replacing existing facilities that have reached the end of their useful life. Funding is sourced from monthly service rates. In cases where facility reconstruction includes capacity enhancements, projects may be funded through a combination of developer impact fees and rate-based revenues. Projects with costs below \$100,000, or those primarily executed by CVWD's in-house Operations & Maintenance (O&M) and Facilities & Maintenance (F&M) staff or the CVWD Pipeline On-Call Contractor, are typically funded through the operational budget, rather than the CIB.

4.3.1.3 CIB Project Nomination and Prioritization:

In January of each year, the Operations and Maintenance Department submits project nominations for inclusion in the CIB²² to the CVWD Engineering Department.

- The Engineering Department is responsible for prioritizing projects within the CIB, based on technical necessity and system optimization.
- The O&M Department utilizes field data to identify potential system deficiencies that require addressing within the CIB.
- The Finance Department ensures the financial feasibility of the prioritized projects within the proposed CIB timeframe.

A comprehensive CIB is developed through collaborative efforts across departments. This inclusive process integrates input from all relevant stakeholders to establish project priorities that are strategically aligned with available funding and support the achievement of the Sewer System Management Plan (SSMP) objectives. The 5-year list of proposed projects is presented in Figure 7 on the following page.

²¹ CVWD Sanitation Master Plan – Collection System CIP- \\pdms100\User_Data\ENGPOOL\ENG-D&S Section\Sanitation\Sanitation Master Plan Update 2017\Deliverables\~Final_112922\~Final 111622

²² CVWD 2024-25 Operating and CIP Budget - <https://www.cvwd.org/ArchiveCenter/ViewFile/Item/1090>

Sanitation									
Project Number	Project Manager	Project Title	Proposed 2026	Proposed 2027	Proposed 2028	Proposed 2029	Proposed 2030	Out Years	5 Year Cost
WRP 4 Treatment									
Subtotal WRP 4 Treatment			\$ 2,100,000	\$ 3,800,000	\$ 12,000,000	\$ 13,000,000	\$ 12,283,000	\$ 32,287,000	\$ 43,183,000
WRP 7 Treatment									
Subtotal WRP 7 Treatment			\$ 17,580,000	\$ 22,511,600	\$ 17,040,084	\$ 9,500,000	\$ 1,000,000	\$ 25,000,000	\$ 67,631,684
WRP 10 Treatment									
Subtotal WRP 10 Treatment			\$ 14,926,400	\$ 16,062,145	\$ 11,975,000	\$ 14,294,620	\$ 7,981,420	\$ 39,738,800	\$ 65,239,585
Collection									
LS2202	Brandon	Lift Station 55-11 Capacity Upgrade (Mecca)	3,600,000		-			-	3,600,000
LS0012	Armando	Lift Station 80-07 - Perimeter Wall (Paxton)	-		-	536,123		-	536,123
LS0017	Armando	Lift Station 55-10 (Citrus) Abandonment Project	-						-
LS2101	Diego/Brandon	Lift Station 80-03 Upgrade (Cook Street)	3,365,200	6,575,000	1,350,000			-	11,290,200
	Armando	Lift Station 80-13 Upgrade (Grand Champion)	50,000	50,000	450,000			-	550,000
SA1601	Jignesh	Mecca Sewer and Manhole Replacement Rehabilitation	-				192,000	3,965,732	192,000
LS2301	Brandon	Lift Station 81-07 and Lift Station 55-12 Odor Control Upgrades	2,087,561		-			-	2,087,561
	Diego	Sewer Pipeline Rehabilitation Project - Cedar Crest	-				36,000	807,106	36,000
	Jignesh	Sewer Pipeline Rehabilitation	-		-	1,500,000	1,500,000	1,500,000	3,000,000
	Jignesh	Sewer Manhole Rehabilitation	-		-	1,500,000		-	1,500,000
	Jignesh	Sewer Lift Station Rehabilitation	-		-			-	-
SA1902	Diego	Burr St Force Main Project	-		3,250,000	4,250,000	2,250,000	-	9,750,000
SA2301	Diego	Sewer Manhole Rehabilitation Project - Palm Desert and Rancho Mirage	32,000						32,000
SA2003	Eric	Avenue 66 Trunk Sewer	5,000,000	5,000,000	7,000,000			-	17,000,000
SA2006	Eric	Valley View Trunk Sewer	4,000,000	4,000,000	10,000,000			-	18,000,000
	Eric	Oasis Mobile Home Septic to Sewer Conversion	2,500,000					-	2,500,000
Subtotal Collection			\$ 20,634,761	\$ 15,625,000	\$ 22,050,000	\$ 7,786,123	\$ 3,978,000	\$ 6,272,838	\$ 70,073,884
Subtotal Sanitation			\$ 55,241,161	\$ 57,998,745	\$ 63,065,084	\$ 44,580,743	\$ 25,242,420	\$ 103,298,638	\$ 246,128,153
Subtotal Nonpotable Connection			\$ 16,030,000	\$ 2,480,000	\$ 170,000	\$ 9,920,000	\$ 14,335,000	\$ 36,583,000	\$ 42,935,000
Subtotal Sanitation			71,271,161	60,478,745	63,235,084	54,500,743	39,577,420	139,881,638	289,063,153
Share of General District			1,598,110	998,625	153,000	153,000	153,000	-	3,055,735
Share of Motorpool			689,150	939,600	1,026,000	1,026,000	993,600	-	4,674,350
Total Sanitation (Including General District and Motorpool)			\$ 73,558,421	\$ 62,416,970	\$ 64,414,084	\$ 55,679,743	\$ 40,724,020	\$ 139,881,638	\$ 296,793,238
Sanitation Amount by Funding Source									
Pay Go for Sanitation Projects			15,385,361	5,046,500	4,149,000	13,276,743	17,295,420	82,415,748	55,153,024
Share of General District for Pay Go			1,598,110	998,625	153,000	153,000	153,000	-	3,055,735
Share of Motorpool			689,150	939,600	1,026,000	1,026,000	993,600	-	4,674,350
Total Pay Go			17,672,621	6,984,725	5,328,000	14,455,743	18,442,020	82,415,748	62,883,109
SWSC			-	-	-	-	-	-	0
WDOF			-	-	-	-	-	-	0
Developer Funded			75,000	-	-	-	-	-	75,000
SCC Treatment - Restricted			12,963,200	14,686,873	11,620,042	5,500,000	4,450,000	30,374,690	49,220,115
SCC Collection - Restricted			3,507,600	3,312,500	2,525,000	2,125,000	1,125,000	-	12,595,100
Grants			17,596,250	14,443,500	28,406,000	16,093,500	11,896,750	5,667,550	88,436,000
Loan			9,280,550	8,902,500	5,615,000	12,105,500	4,810,250	21,423,650	40,713,800
Bonds			12,463,200	14,086,873	10,920,042	5,400,000	-	-	42,870,115
Subtotal Sanitation			71,271,161	60,478,745	63,235,084	54,500,743	39,577,420	139,881,638	289,063,153
Total Amount Including General District and Motorpool			73,558,421	62,416,970	64,414,084	55,679,743	40,724,020	139,881,638	296,793,238

Figure 7 Sanitation Proposed 5-Year CIP Schedule

4.4 Part 4 – Training

The Coachella Valley Water District (CVWD) prioritizes the development of a highly skilled, professional, and certified workforce through comprehensive safety, operational, technical, weekly tailgates, and supervisory training programs. While safety training is administered by the Human Resources Department, Safety Personnel (documented via NEOGOV), encompassing specialized workshops on topics such as HAZWOPER, Confined Space Entry, Chemical Safety, Competent Person, Traffic Control, and Fall Protection, CVWD places a strong emphasis on technical skill enhancement.

This commitment includes providing opportunities for technical training, pursuing relevant certifications, supporting advanced education, and delivering the specialized Spill Emergency Response Plan (SERP) Training²³. This multi-faceted approach ensures that CVWD personnel possess the necessary expertise to maintain operational excellence and respond effectively to any incidents.

Benefits of training include:

- Identifying deficiencies with emergency response procedures
- Identifying resource gaps
- Clarifying roles and capabilities
- Improving coordination, performance, and confidence
- Building a team atmosphere

4.4.1 Training Record

Records will be kept of all training that has been provided in support of this Sewer System Management Plan (SSMP) for 5 years. The records for all scheduled training courses and for each sewer spill emergency response training event will include date, time, place, content, name of trainer(s), names and titles of attendees, brief narrative description of the training, including training method(s) and training materials and/or equipment used.

Training Record Forms are to be stored in an electronic file in the CVWD J: Drive and in NEOGOV for reference and review.

²³ Ref. State Water Board Order No. WQ2022-0103-DWQ (SSSWDR), Element 6, ATTACHMENT D, Page D-6.

4.4.2 Technical Training

Technical training for collection system operations and maintenance is implemented through a multi-faceted approach:

4.4.2.1 On-the-Job Knowledge Transfer

A continuous learning culture is fostered within operational crews, wherein experienced Crew Chiefs and lead personnel actively mentor and share expertise with newer employees. This facilitates practical, real-time skill development.

4.4.2.2 External Professional Development

Employees participate in industry-recognized external training seminars focused on advanced collection system operation and maintenance techniques, ensuring exposure to current best practices and technologies.

4.4.2.3 Internal Specialized Training

Targeted internal training programs are conducted to address specific collection system operational, and maintenance needs relevant to the organization.

4.4.2.4 Industry Association Engagement:

The organization maintains active involvement with the California Water Environment Association (CWEA) and its Colorado River Basin Section (CORBS)²⁴, University of California Riverside – Extension, and the American Water Works Association (AWWA). This includes hosting CWEA/CORBS seminars on-site, providing employees with direct access to specialized training and networking opportunities.

²⁴ CWEA Colorado River Basin Section (CORBS) - <https://www.cwea.org/corbs>

4.4.3 Staff Certification and Continuing Education Programs

The Coachella Valley Water District (CVWD) emphasizes professional development and technical proficiency through mandatory certification²⁵ and comprehensive continuing education programs. Sanitation staff are encouraged to complete continuing advanced educational and vocational training programs.

4.4.3.1 Collection Systems Certification

The Operations and Maintenance (O&M) Department mandates that staff pursuing career advancement within the Collection Systems Division hold a current certification in Collection Systems Operation and Maintenance, issued by the California Water Environment Association (CWEA), including:

- Supplemental operational and mechanical training, covering pump and process equipment theory and principles, safety protocols, and related subject matter.
- Currently, 19 of 20 employees within the Collection Systems Department maintain CWEA certification in Collections Systems Maintenance.

4.4.3.2 Mechanical Technology Certification

The O&M Department mandates that staff pursuing career advancement within the Mechanical Division hold a current certification in Mechanical Technology, issued by CWEA, including:

- Supplemental mechanical training, covering pump and process equipment theory and principles, safety protocols, and related subject matter.
- Currently, 11 CVWD Mechanical Technicians hold CWEA Mechanical Technology certifications.

4.4.3.3 Facilities and Maintenance Continuing Education

The Facilities and Maintenance (F&M) Department prioritizes ongoing staff development through comprehensive continuing educational and vocational training programs.

These programs encompass critical areas, which include:

- Electrical safety
- Electrical principles
- Advances in electronic technology
- Programmable logic controller programming

²⁵ *CWEA Technical Certification Program* <https://www.cwea.org/certification>

4.4.4 SERP Training Program

The Spill Emergency Response Plan (SERP) training program is designed to support the Coachella Valley Water District's (CVWD) Sewer System Management Plan (SSMP). The purpose of this training is to ensure personnel are proficient in emergency procedures, understand their response roles, and can effectively address potential challenges.

4.4.4.1 Types of Training SERP Training Objectives include

The purpose of training is for participants to become familiar with the conditions and procedures of an emergency, to visualize response roles and to address procedural conflicts or difficulties. This section provides information on the training that is required to support this Spill Emergency Response Plan.

4.4.4.2 Orientation Training

Briefing through lecture or visual. An introductory session to instruct employees on the plan and required documentation. All CVWD personnel who may have a role in responding to, reporting, and/or mitigating a sewer system spill will receive training on the contents of this SSMP. All new employees will receive training before they are placed in a position where they may have to respond. Current employees will receive annual refresher training on this SERP and the procedures to be followed. CVWD will document all training.

4.4.4.3 Tabletop exercise

- Simulation of a sewage spill without the use of equipment or deployment of resources. The steps taken will be explained verbally to the personnel.
- Exercise effectiveness is to be determined by the feedback from the group and impact on revisions to plan the system.

4.4.4.4 Full scale exercise

- Spill events will be simulated with the use of equipment and deployment of resources.
- The training drills will cover scenarios typically observed during sewer-related emergencies (e.g. mainline blockage, mainline failure, and lateral blockage, etc.)
- This type of exercise will reevaluate the plan objectives and test equipment, response time, training resources and staff capabilities.
- The results and the observations during the drills will be recorded and action items will be tracked to ensure completion.

All exercises will have follow-up meetings to analyze strengths, weaknesses, and to discuss improvement of procedures.

4.4.4.5 SERP Training Descriptions

These courses are vital for strong spill prevention, preparedness, and response, directly supporting compliance with the Waste Discharge Requirements (WDR) Order. Thorough training in the relevant areas is necessary to accurately monitor water quality, estimate spill characteristics, effectively use the CIWQS database for reporting, meet annual reporting requirements, and conduct proper spill response. This comprehensive training ensures adherence to the WDR Order, minimizing environmental impact, avoiding potential penalties, and upholding water protection standards.

Table 9 SERP Training Descriptions

Count	Training Description
1	Surface Water Quality Sampling as Part of Your Spill Emergency
2	Estimating Spill Start Time and Spill Volume - Strategies and Methods
3	CIWQS Training for Data Submitters and Legally Responsible Officials
4	Surface Water Quality Sampling as Part of Your Spill Emergency
5	Preparing for Annual Certified Spill Reporting of Cat 4 and/or Non-Cat 1 Lat. Spills
6	Preparing and Submitting the Annual Report
9	CVWD O&M Hands-on Training – Various Spill Response Operations

Table 10 Sanitation and Environmental Departments Certification Training List

QTY	Employee	EE#	Department	Experience	CWEA Certifications												
					Collection Systems				Mechanical				Environmental Compliance				
					CSM 1	CSM 2	CSM 3	CSM 4	MT 1	MT 2	MT 3	MT 4	EC 1	EC 2	EC 3	EC 4	
1	Cuauhtemoc Contreras	1768	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
2	Miguel Felix	1721	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Abraham Sanchez	1628	Collections	Entry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Alexis Cabrera	1625	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Andres Badena	1143	Collections	Entry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Calvin McCutchen	1524	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Carlos Rubio	1642	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Christopher Castellanos	1641	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Christopher Gonzalez	1564	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Francisco Barahona	1627	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Jorge Mojica	623	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Nathaniel Martinez	1601	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Ricardo Jimenez	1591	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Joel Gonzalez	1643	Collections	Entry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Kevin Ordaz	1526	Collections	Entry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Noe Espinoza	1580	Collections	Journey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Angel Calderon	1081	Collections	Supervisory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Felix Bañuelos	954	Collections	Supervisory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	Grant Steven Roper	534	Collections	Supervisory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Nahúm Padilla	983	Collections	Managerial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	Andy Calhoun	1408	Mechanical	Managerial	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
22	Roger Salcedo	1047	Mechanical	Supervisory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
23	Mark Vince	1132	Mechanical	Supervisory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
24	Francisco Suarez	914	Mechanical	Entry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
25	Rigo Infante	1042	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Danny Marmolejo	1090	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	Daniel Mills	1635	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
28	Rafael Solorio	1438	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
29	Keith Cross	1708	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	Garrett Galindo	1112	Mechanical	Entry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
31	Jose Bon	1079	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	Luis Torner	1496	Waste Water	Managerial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	Thomas West	1738	Administration	Managerial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
34	Ivan Monroy	1651	Source Control	Supervisory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
35	Gabriel Reyes	1326	Source Control	Entry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
36	Juan Uriarte	1444	Source Control	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Totals					10	5	3	4	4	1	1	4	3	1	0	0	
					CSM 1	CSM 2	CSM 3	CSM 4	MT 1	MT 2	MT 3	MT 4	EC 1	EC 2	EC 3	EC 4	

Table 11 Sanitation and Environmental Departments Additional Training Certifications

QTY	Employee	EE#	Department	Experience	Advanced Education			NASSCO	Safety					AWWA (Grade 1-5)		Other	
					Water College	Adv. Cert	Degree	PACP	HZWRP	CPR-AED	AED	First Aid	Fit Test	Forklift	Treatment	Distribution	Crane
1	Cuahtemoc Contreras	1768	Collections	Entry	<input type="checkbox"/>												
2	Miguel Felix	1721	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Abraham Sanchez	1628	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Alexis Cabrera	1625	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Andres Badena	1143	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Calvin McCutchen	1524	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Carlos Rubio	1642	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Christopher Castellanos	1641	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Christopher Gonzalez	1564	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Francisco Barahona	1627	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Jorge Mojica	623	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Nathaniel Martinez	1601	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Ricardo Jimenez	1591	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Joel Gonzalez	1643	Collections	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Kevin Ordaz	1526	Collections	Entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Noe Espinoza	1580	Collections	Journey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Angel Calderon	1081	Collections	Supervisory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Felix Bañuelos	954	Collections	Supervisory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	Grant Steven Roper	534	Collections	Supervisory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Nahúm Padilla	983	Collections	Managerial	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	Andy Calhoun	1408	Mechanical	Managerial	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	Roger Salcedo	1047	Mechanical	Supervisory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	Mark Vince	1132	Mechanical	Supervisory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	Francisco Suarez	914	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	Rigo Infante	1042	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Danny Marmolejo	1090	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	Daniel Mills	1635	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	Rafael Solorio	1438	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	Keith Cross	1708	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30	Garrett Galindo	1112	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	Jose Bon	1079	Mechanical	Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	Luis Torner	1496	Waste Water	Managerial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	Thomas West	1738	Administration	Managerial	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
34	Ivan Monroy	1651	Source Control	Supervisory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	Gabriel Reyes	1326	Source Control	Entry	<input type="checkbox"/>												
36	Juan Uriarte	1444	Source Control	Entry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Totals					4	5	6	19	31	34	34	34	31	31	1	1	1
					CSUS	Sup Cert	Degree	PACP	HZWRP	CPR-AED	AED	First Aid	Fit Test	Forklift	Treatment	Distribution	Crane

4.5 Part 5 – Equipment and Replacement Parts Inventories

The Coachella Valley Water District (CVWD) maintains a strategic inventory of critical replacement parts and operational availability of critical equipment to ensure the continuous operation of its Sanitary Sewer and Non-Potable systems.

4.5.1 Replacement Parts Inventory

The Collections Department at CVWD maintains a critical spare parts inventory at various locations, listed below, to ensure the operational readiness of the sanitary collection system. This inventory, encompassing essential components for maintenance and emergency repairs, is meticulously managed to minimize downtime and maintain system integrity. Strategic vendor relationships are established to guarantee timely access to specialized parts, ensuring rapid procurement and deployment when needed, thereby supporting efficient and uninterrupted service delivery.

These parts are stored across multiple locations:

- Coachella Warehouse: Serves as the primary inventory hub.
- Palm Desert Facility: Operations and Maintenance storage containers provide supplemental inventory capacity.
- Wastewater Reclamation Plant 10 (WRP 10), Palm Desert: Houses additional critical components.

CVWD utilizes the NEXGEN asset management program and the Naviline computer-based inventory management finance system to maintain accurate and accessible inventory records. Inventory management decisions consider key factors such as lead times, ensuring timely availability of critical components. The emergency parts inventory is subject to regular review and updates to reflect current operational needs and potential contingencies and are available in the Tables for this section.

Table 12 Coachella - Large Diameter Appurtenances

Inventory ID	Name	Description	Quantity in Stock
IN0001	Reducer	Red. D/I FL6 18"X14" Concentric 401p Lined	1
IN0002	Bend	Bend Ductile 18" 90 MJ 401p lined	1
IN0003	Bend	Bend Ductile 18" 45 MJ	1
IN0004	Reducer	Reducer D/I Flange 18"X12"	1
IN0005	Tee	Tee D/I Flange 18"	1
IN0006	Sleeve	Sleeve LP D/I 18" MJ	1
IN0007	Bend	Bend D/I 18" 45 Flange	1
IN0008	Bend	Bend D/I 18" 22 ½ Flange	1
IN0009	Bend	Bend D/I 14" 45 MJ	1
IN0010	Sleeve	Sleeve LP D/I 14" MJ	1
IN0011	Adapter	Adapter D/I 14" MJ X Flange	1
IN0012	Bend	Bend D/I 14" 22 ½ Flange	1
IN0013	Bend	Bend D/I 18" 90 Flange	1
IN0014	Bend	Bend D/I 14" 90 MJ	1
IN0015	Bend	Bend D/I 14" 22 ½ MJ	1
IN0016	Bend	Bend D/I 14" 90 Flange	1
IN0017	Bend	Bend D/I 14" 45 Flange	1
IN0018	Bend	Bend LR STD Weld 8"	1
IN0019	Bend	Bend D/I 12" 90 MJ 40	1
IN0020	Valve	Valve Swing Check 8"	1
IN0021	Valve	Valve Swing Check 10"	1
IN0022	Meter	Flow Meter Krohne 6"	1
IN0023	Bend	Bend D/I 12" 45 MJ 40	1
IN0024	Valve	Valve Swing Check 6"	1
IN0025	Valve	Valve Swing Check 4"	1
IN0026	Valve	Valve Swing Check 12"	1
IN0027	Wye	Wye Ductile 12" Flange	1
IN0028	Bend	Bend D/I 12" 45 Flange	1
IN0029	Bend	Bend D/I 12" 22 ½ M	1
IN0030	Bend	Bend D/I 12" 90 Flange	1
IN0031	Valve	Valve, Plug 18" Pratt EIC 316 SS bolt	1
IN0032	Valve	Valve, Plug 14" Pratt Flange	1
IN0033	Valve	Valve, Plug 12" Flange	1

Table 13 Palm Desert Facility - Large Diameter Appurtenances

Inventory ID	Name	Description	Quantity in Stock
IN0034	JCM Tap Sleeve	10" Tap Sleeve 10.64-10.86	1
IN0035	JCM Tap Sleeve	10" Tap Sleeve 11.03-11.47	1
IN0036	JCM Tap Sleeve	12" Tap Sleeve 12.62-12.88	1
IN0037	JCM Tap Sleeve	12" Tap Sleeve 13.13-13.60	1
IN0038	JCM Tap Sleeve	12" Tap Sleeve 13.60-14.09	1
IN0039	JCM Tap Sleeve	14" Tap Sleeve 15.23-15.80	1
IN0040	Smith Blair	12" Transition Coupling	1
IN0041	Smith Blair	18" Transition Coupling 17.88-18.09	2
IN0042	Smith Blair	18x18 Transition Coupling 19.50-18.00	1
IN0043	Smith Blair	18x18 Transition Coupling 18.00-19.50-18.00	1
IN0044	JCM Tap Sleeve	18" Tap Sleeve 17.88-18.43	2
IN0045	JCM Tap Sleeve	Tap Sleeve 19.41-20.01	1
IN0046	Smith Blair	Coupling 19.50-18.00	1
IN0047	Max Adaptor	Transition Coupling 16.34-19.10	4
IN0048	Max Adaptor	Transition Coupling 13.00-15.75	4
IN0049	Max Adaptor	Transition Coupling 12.50-12.68	4
IN0050	Max Adaptor	Transition Coupling 8.40-10.15	4
IN0051	Max Adaptor	Transition Coupling 6.27-7.75	4
IN0052	Max Adaptor	Transition Coupling 4.13-5.56	2
IN0053	Hymax	Coupling 1.5"/2" (1.54-2.64)	2
IN0054	Hymax	Coupling 4" (4.25-5.63)	2
IN0055	Hymax	Coupling 6" (6.42-7.68)	2
IN0056	Hymax	Coupling 8" (8.54-9.84)	2
IN0057	Best Available	6" Rubber coupling Clay to AC pipe	5
IN0058	Best Available	8" Rubber coupling Clay to AC pipe	5
IN0059	Best Available	8" Rubber coupling PVC to PVC pipe	1
IN0060	Best Available	10" Rubber coupling Clay to PVC pipe	2
IN0061	Best Available	10" Rubber reducer PVC to 8" PVC	1
IN0062	Best Available	10" Clay to 10" AC	6
IN0063	Best Available	12" Rubber coupling Clay to PVC	2

Table 14 Palm Desert Facility – Small Diameter Appurtenances

Inventory ID	Name	Description	Quantity in Stock
IN0064	1"-4" SS Ball Valve	Threaded; Stainless Steel	3 EACH
IN0065	Square Nut/ Ball Valve	Steel	30
IN0066	4"X2" Companion Flange	Threaded Reducer; Stainless Steel	3
IN0067	4"X3" Companion Flange	Threaded Reducer; Stainless Steel	3
IN0068	4"X4" Companion Flange	Threaded Reducer; Stainless Steel	3
IN0069	6"X2" Companion Flange	Threaded Reducer; Stainless Steel	5
IN0070	6"X3" Companion Flange	Threaded Reducer; Stainless Steel	2
IN0071	6"X4" Companion Flange	Threaded Reducer; Stainless Steel	4
IN0072	3" Blind Flange	Stainless Steel	1
IN0073	4" Blind Flange	Stainless Steel	1
IN0074	6" Blind Flange	Stainless Steel	1
IN0075	3" SS Flange Kit w/Gasket	Stainless Steel	3
IN0076	4" SS Flange Kit w/Gasket	Stainless Steel	5
IN0077	6" SS Flange Kit w/Gasket	Stainless Steel	4
IN0078	2" SS Closed Nipple	Stainless Steel	4
IN0079	2"x4" SS Nipple	Stainless Steel	7
IN0080	2"x6" SS Nipple	Stainless Steel	8
IN0081	2" SS Elbow	Stainless Steel- Female Thread	8
IN0082	2" SS Coupling	Stainless Steel- Female Thread	4
IN0083	3"x8" SS Nipple	Stainless Steel	2
IN0084	4"x8" SS Nipple	Stainless Steel	2
IN0085	3"X2" Female Reducer	Stainless Steel	1
IN0086	4"X2" Female Reducer	Stainless Steel	1
IN0087	3"X2" Male/Female Reducer	Stainless Steel	2
IN0088	4"X2" Male/Female Reducer	Stainless Steel	2
IN0089	2" Female Adapter	Schedule 80	4
IN0090	2" Male Adapter	Schedule 80	4
IN0091	2" Coupling	Schedule 80	4
IN0092	2" Elbow 90	Schedule 80	4
IN0093	2" Coupling 45	Schedule 80	4
IN0094	4"x2" Male/Female Reducer	Schedule 80	4
IN0095	4"X2" Companion Flange	Schedule 80	2
IN0096	6"X4" Companion Flange	Schedule 80	2

4.5.2 Lift Station Spare Equipment Inventory

The Coachella Valley Water District (CVWD) ensures the operational continuity of its sanitary lift stations through the Mechanical Department's management of a critical spare pump inventory. These essential pumps, crucial for prompt replacement during maintenance activities or unexpected failures, are meticulously tracked and strategically stored at the Water Reclamation Plant 10 (WRP-10) facility. This centralized storage facilitates efficient access and rapid deployment, thereby minimizing system downtime and upholding the integrity of the CVWD's wastewater conveyance infrastructure.

Electrician Shop plays a vital role in maintaining the reliability of lift station operations by managing and deploying spare generators. These generators are strategically utilized at lift stations to provide backup power during electrical outages and are stored at a designated facility in Coachella, ensuring their availability for rapid deployment when needed. This proactive management of both spare pumps and generators underscores CVWD's commitment to uninterrupted wastewater service.

4.5.2.1 Lift Station Spare Pumps

Table 15 Lift Station Spare Pump Inventory

Lift Station	Spare Quantity	Pump Type
50-01	1	Smith & Loveless Pump 7.5 HP
50-02	1	1-Barnes Pump 20 HP
51-01	1	Vaughan Chopper Pump 38 HP
55-01	2	Essco Pump 135 HP
55-11	1	Vaughan Chopper Pump 50 HP
55-12	1	Vaughan Chopper Pump 75 HP
55-19	1	Gorman Rupp Rotating assembly T-4
55-21	1	Fairbanks Morse Pump 25 HP
55-24	1	Fairbanks Morse Pump 60 HP
55-26	1	Homa Pump 13 HP
55-27	1	Vaughan Chopper Pump
80-03	2	Fairbanks Morse Rotating Assemblies 60 HP / 75 HP
80-04	1	Fairbanks Morse Pump 100 HP
80-05	1	Smith & Loveless Pump 7.5 HP
80-06	1	Gorman Rupp Rotating Assembly T-6
80-07	1	Vaughan Chopper Pump 5 HP
80-08	1	Wemco Torque Flow Pump 1.5 HP
80-09	1	Essco Pump 10 HP
80-13	1	Gorman Rupp Rotating Assembly T-6
80-18	1	Flygt Pump 18 HP
80-19	1	Fairbanks Morse Pump 60 HP
81-01	1	Essco Pump 135 HP

4.5.2.2 Lift Station Backup Generators

The Coachella Valley Water District (CVWD) maintains operational resilience across its sanitary sewer system through the strategic design to include backup generator power at 20 of its 25 lift station locations. Specifically, Lift Stations 50-02, 55-19, 55-26, 80-08, and 80-09 are the exceptions and currently do not have permanently installed backup generators. However, these five designated lift stations have significant built-in holding capacity due to low flows, providing CVWD personnel with substantial lead time for effective response and management in the event of a power disruption, thereby mitigating the potential for service interruptions. Furthermore, CVWD maintains a fleet of mobile generators, providing an additional layer of redundancy and enhancing the overall resilience of the wastewater conveyance system.

Table 16 CVWD Spare Mobile Generators

Eq. #	Equipment Description	Type	Managed By
229	2007 GNRC GEN TLR 500KW	Equipment, Towed	Electricians
230	2007 GNRC GEN TLR 500KW	Equipment, Towed	Electricians
231	2007 GNRC GEN TLR 500KW	Equipment, Towed	Electricians
232	2007 GNRC GEN TLR 500KW	Equipment, Towed	Electricians
248	1999 OLYM GEN TLR 200KW	Equipment, Towed	Electricians
249	1999 OLYM GEN TLR 200KW	Equipment, Towed	Electricians
493	2007 GENIE KNUCKLE BOOM	Equipment, Towed	Electricians
547	1999 OLYM GEN TLR 200KW	Equipment, Towed	Electricians
642	2011 CAT GEN TLR 500 KW	Equipment, Towed	Electricians
643	2011 CAT GEN TLR 500 KW	Equipment, Towed	Electricians
650	2012 CAT GEN TLR 500KW	Equipment, Towed	Electricians
651	2012 CAT GEN TRLR 500KW	Equipment, Towed	Electricians
922	2013 CAT GEN TLR 200KW	Equipment, Towed	Electricians
923	2013 CAT GEN TLR 200KW	Equipment, Towed	Electricians
924	2013 CAT GEN TLR 200KW	Equipment, Towed	Electricians
927	2013 CAT GEN TLR 200KW	Equipment, Towed	Electricians
966	2014 CAT GEN TLR 350KW	Equipment, Towed	Electricians
967	2014 CAT GEN TRLR 350KW	Equipment, Towed	Electricians
1414	PORTABLE GENERATOR	Equipment, Towed	Electricians

4.5.3 Equipment and Fleet Register

The Coachella Valley Water District (CVWD) maintains a comprehensive fleet of equipment to support routine preventative maintenance and corrective operations, and effective emergency spill response activities. The listed equipment, along with its designated storage locations, is provided to be made available for O&M and spill response as detailed in the Spill Emergency Response Plan (SERP).

Table 17 Sanitation Mobile Pumps

Eq #	Equipment Description	Type	Location
778	2016 OBN Drain Cleaner, Jetting Trailer	Equipment, Towed	Palm Desert
663	Vaughn Sound Attenuated Chopper Pump	Equipment, Towed	WRP-10
660	Vaughn Sound Attenuated Chopper Pump	Equipment, Towed	WRP-10
750	2014 Godwin Pump 6"	Equipment, Towed	WRP-10
812	2005 P & P Sewage Pump- Yellow	Equipment, Towed	LS 80-03
824	2007 Power Prime Trash Pump 7k	Equipment, Towed	WRP-10
1804	2008 Power Prime Pump	Equipment, Towed	WRP-10
872	2010 Godwin Hydraulic Trailer Pump	Equipment, Towed	LS 55-12
788	2013 Godwin Pump 6" WRP-7	Equipment, Towed	WRP-10
876	2011 Godwin Pump 6" WRP-10	Equipment, Towed	WRP-10

Table 18 Sanitation Traffic Control and Specialized Equipment

Eq #	Equipment Description	Type	Location
668	2012 National Message Board	Equipment, Towed	Palm Desert
671	2005 National Arrow board	Equipment, Towed	Palm Desert
675	1994 Lukens Arrow board	Equipment, Towed	Palm Desert
870	2005 Stone Cement Mixer	Equipment, Towed	Palm Desert
965	2016 Sullair Compressor 185	Equipment, Towed	Palm Desert
644	2017 Programmable Solar Light Tower	Equipment, Towed	Palm Desert
645	2017 Programmable Solar Light Tower	Equipment, Towed	Palm Desert

Table 19 Collection System Heavy Equipment and Trailers

Eq. #	Equipment Description	Type	Location
476	2015 Ford FB TRK 2WD 15k- Service Truck	Truck, Medium	Palm Desert
571	2006 GMC Maintainer 2WD 25K	Truck, Heavy	Palm Desert
552	2019 Ford F750 Water Truck	Truck, Heavy	Palm Desert
526	2020 IH 15 Yard Dump Truck 58k	Truck, Heavy	Palm Desert
586	2020 KW 15 Yard Dump 58k	Truck, Heavy	Palm Desert
581	2021 IH 5 Yard Dump 4x4	Truck, Heavy	Palm Desert
729	2014 JD 710 MFWD Backhoe	Off Road	Palm Desert
733	2006 JD 210LE Ganon Loader 4WD	Off Road	Palm Desert
735	2011 CAT 242B3 Skid Steer	Off Road	Palm Desert
769	2017 JD 544KII Loader 35K	Off Road	Palm Desert
903	1999 JCB Hydraulic Hammer	Implement	Palm Desert
908	2011 Arrowhead Hydraulic Hammer	Implement	Palm Desert
617	2011 Felling Tilt Trailer 15k	Equipment, Towed	Palm Desert
623	215 Felling Trailer 44k	Equipment, Towed	Palm Desert
630	200 Trez Tilt Trailer	Equipment, Towed	Palm Desert
632	2002 Interstate Trailer 40k	Equipment, Towed	Palm Desert
641	2015 Felling Trailer 44k	Equipment, Towed	Palm Desert
677	2001 CVWD Trailer 2 Axel- Pipe Trailer	Equipment, Towed	Palm Desert
602	2010 Big Tex Trailer WRP-4	Equipment, Towed	Palm Desert
800	1994 Hyster Forklift 6k (small)	Off Road	Palm Desert
805	2003 Noble Forklift 10K (Large)	Off Road	Palm Desert
732	2013 Road Broom Sweeper	Off Road	Palm Desert
756	Freightliner Crane 30T 59k- Yellow	Truck, Heavy	Coachella
760	2005 Freightliner Crane 15T 56k- White	Truck, Heavy	Palm Desert

Table 20 Collection System O&M Fleet

Eq. #	Equipment Description	Type	Location
2291	2013 Ford PU 2WD 1/2 Ton	Truck, Light	Palm Desert
2293	2013 Ford PU 2WD 1/2 Ton	Truck, Light	Palm Desert
2303	2014 FORD PU 4WD 1/2 TON	Truck, Light	Palm Desert
2396	2021 RAM 1500 (4X4)	Truck, Light	Palm Desert
263	2018 Chev Silverado 4x2 1/2 Ton- Arrow board	Truck, Light	Palm Desert
2250	2008 FORD PU 2WD 1/2 T	Truck, Light	Palm Desert
2294	2013 FORD PU 2WD 1/2 TON	Truck, Light	Palm Desert
413	2014 Ford FB TRK 2WD 17K - AV Service Truck	Truck, Medium	Palm Desert
2417	2008 Ford UB Truck 2WD- Service Truck	Truck, Medium	Palm Desert
2434	2008 Ford Utility Bed Truck 18k	Truck, Medium	Palm Desert
2489	2017 Ford F550 4x4 Flatbed- Service Truck	Truck, Medium	Palm Desert
147	2014 Ford Van 2WD	General	Palm Desert
2424	2007 Ford Video Van 15k	General	Palm Desert
2508	2019 Ford CCTV Video Van	General	Palm Desert
519	2015 Kenworth Vactor Truck	Truck, Heavy	Palm Desert
520	2015 Kenworth Vactor Truck	Truck, Heavy	Palm Desert
639	2015 Confined Space Trailer	Equipment, Towed	Palm Desert

4.6 Specialty Contractor List

In addition to internal resources, the Coachella Valley Water District (CVWD) has established relationships with a network of pre-qualified contractors to provide specialized services pertaining to sewer. These contractors offer a range of expertise, including private residence repair, cleaning, force main and pipeline replacements. A current list of these local contractors is presented in Table 21.

CVWD manages all aspects of community sewers within its service areas, including connections. To provide customers with choice while ensuring quality, CVWD Ordinance No. 1222²⁶ permits the use of pre-qualified private contractors for lateral connections and specialty repair work. Contractors must meet specific qualifications, including insurance and workmanship requirements²⁷. The following list comprises contractors who have met these criteria and provided necessary documentation; this list will be updated as needed²⁸.

Table 21 CVWD Sanitation Specialty Contractor List

Name	Address	Contact
Alms Underground Construction	38-703 Vista Drive, Cathedral City	(760) 324-1911
BL Wilson Backhoe Service	80-340 Avenue 43, Indio, CA 92201	(760) 347-6946
Black Gold Builders Group	42-270 Spectrum Street, Indio CA 92201	(760) 396-9260
GL Gayler Construction	61-550 Polk Street, Thermal CA 92274	(760)399-5308
James A. Shirley Construction	59-550 Mesa Drive, Yucca Valley, CA 92284	(760) 228-0447
JH Thompsons and Sons	79-607 Country Club Drive, # 2, Bermuda Dunes, CA 92201	(760) 345-6003
Statewide Services	72-120 Magnesia Falls Drive, Suite 1, Rancho Mirage, CA 92270	(760) 699-5434
Van Dyke Corporation	6797 Adobe Road, Twentynine Palms, CA 92277	(760) 367-9151
Walton Bros. (CJW Contractor)	PO Box 80, San Jacinto, CA 92581	(760) 275-4197

²⁶ CVWD Ordinance No. 1222: <https://cvwd.district.codes/enactments/Ord1222>

²⁷ General Notes for Domestic Sewer Systems

<https://www.cvwd.org/DocumentCenter/View/1013/General-Notes-for-Sanitary-Sewer-Systems-PDF?bidId=>

²⁸ CVWD Specialty Contractor List (CVWD Form WS-71 list, Rev. 11/21) and is available at the following link: <https://www.cvwd.org/DocumentCenter/View/5353/Prequalification-Contractors-List>.

4.6.1 Pumper Truck Contractor List

The Coachella Valley Water District (CVWD) is equipped with necessary resources, including combination vehicles, for routine maintenance, repair operations, and spill response. Operations staff maintains a current list of prequalified contractors, enabling rapid deployment of specialized services during spill events. These services include residential cleanup, pipeline repairs, and supplemental tank truck support, with specific consideration for scenarios requiring pumper truck assistance.

Table 22 Sanitation Truck Pumper Truck Contractors

Emergency Pumper Truck Contact List			
Name	Address		Contact Number
Hammer Pumping	68337 Kieley Rd, Cathedral City, CA 92234	Main Dispatch	(760) 321-7448
		Main Dispatch	(760) 360-7448
		Don Holmes- Owner	(760) 250-7112
		Steve Holmes -Owner	(760) 601-4504
Roto-Rooter	El Cercado Ct, Palm Desert, CA 92260	Main Corporate Dispatch	(760) 203-3050 1-800-491-7686
Sanco Pumping Co.	79800 Bermuda Dunes Dr, Bermuda Dunes, CA 92203	Bermuda Dunes	(760) 327-8859
		Steve Sanco – Owner	(760) 861-9577
Sanco Pumping Co. (2)	658 Williams Rd, Palm Springs, CA 92264	Palm Springs	(760) 341-8020
		Steve Sanco – Owner	(760) 861-9577

5 Design and Performance Provisions

OBJECTIVES

- Updated Design Criteria and Construction Standards and Specifications
- Procedures and Standards for the inspection and testing of newly constructed, newly installed, repaired, and rehabilitated system pipelines, pumps, and other equipment and appurtenances

This section of the Sewer System Management Plan (SSMP) details the Coachella Valley Water District's (CVWD) established guidelines, standards, and specifications governing the design, construction, rehabilitation, repair, and inspection of sanitary sewer systems and appurtenances. CVWD has developed and maintained comprehensive standards and design provisions, formalized in two key documents: the Standard Specifications for the Construction of Sanitary Sewer Systems²⁹ (Standard Specifications) and the Development Design Manual (DDM)³⁰, dated update of October 2024. The Standard Specifications provide detailed guidance on the installation of new sanitary sewer systems, pump stations, and related infrastructure, as well as the rehabilitation and repair of existing systems. This document also outlines procedures and standards for inspection and testing. The DDM serves as a resource for design engineers working on tracts, subdivisions, and other developments requiring CVWD approval.

CVWD's Standard Specifications and the DDM meet or exceed the requirements of Water Quality Order No. 2022-0103-DWQ. Given their broader distribution, these documents are incorporated into this SSMP by reference rather than being reproduced herein.

The Standard Specifications are structured into three distinct parts:

1. General³¹: Includes descriptions, references, and applicable standards.
2. Products: Specifies technical conditions and material requirements.
3. Execution: Outlines provisions and requirements for project completion.
4. Sanitation Standard Drawings³²

The Engineering Department maintains and distributes the Standard Specifications and the DDM, ensuring their compliance with state regulations in collaboration with the Operations Department. Refer to *Section 4.3 Part – Rehabilitation and Replacement* of this SSMP for additional information for the Proposed 5-Year Sanitation CIP Schedule.

²⁹ *Standard Specifications* - <https://www.cvwd.org/DocumentCenter/View/4346/Sanitation-Standard-Specifications-for-Construction-of-Sanitary-Sewer>

³⁰ *Development Design Manual* - <https://www.cvwd.org/DocumentCenter/View/4206>

³¹ *General Notes* - <https://www.cvwd.org/DocumentCenter/View/1013/General-Notes-for-Sanitary-Sewer-Systems-PDF?bidId=>

³² *Standard Drawings* - <https://www.cvwd.org/DocumentCenter/View/1015/Sanitation-Standard-Drawings-PDF?bidId=>

6 Spill Emergency Response Plan

OBJECTIVES

- Rapid spill detection and response.
- Minimize spill volume and gather prevention data.
- Promptly notify relevant authorities and affected parties.
- Ensure regulatory compliance (orders, laws, regulations).
- Implement SERP with trained personnel.
- Manage emergency operations and traffic.
- Contain spills and prevent environmental contamination.
- Mitigate public health and environmental impacts.
- Clean and remediate affected areas.
- Utilize effective technologies and interagency coordination.
- Coordinate with relevant agencies.
- Conduct post-spill evaluations.
- Document and report spill events.
- Perform annual SERP reviews.

Prior to the implementation of the State Water Resources Control Board (SWRCB) Water Quality Order No. 2022-0103-DWQ, the Coachella Valley Water District (CVWD) developed a Spill Emergency Response Plan (SERP), previously referred to as the Sanitary Sewer Overflow Response Plan (SSORP), to establish a documented emergency response protocol for spill events. CVWD's SERP meets the requirements of WQ 2022-0103-DWQ³³ and incorporates the revised State Water Resources Control Board Order No. WQ 2013-0058 EXEC³⁴.

California Water Board Order WQ 2022-0103-DWQ specifies the required minimum components for the Sewer System Emergency Response Plan (SERP):

- First Responder Notification and Response: "Spill Response," of the SERP outlines procedures for notifying first responders and initiating appropriate response actions.
- Regulatory and Agency Notification: Part 5 also addresses proper notification of regulatory and potentially affected agencies. Reporting responsibilities reside with the Sanitation Operations and Maintenance Department, specifically the Sanitation Collections group.

³³California State Water Resources Control Board Order WQ 2022-0103-DWQ:
https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo_2022-0103-dwq.pdf

³⁴California State Water Resources Control Board Order WQ 2013-0058-EXEC:
https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2013/wqo2013_0058_exec.pdf

- Water Reclamation Plant Notification: the SERP incorporates CVWD's Water Reclamation Plant Notification Procedures by reference. The SERP and Water Reclamation Plant Notification Procedures are distributed as a unified document.
- Personnel Training: Training on SERP aspects and procedures is detailed in Part 7, "Personnel Training."
- Emergency Operations and Spill Containment: Spill containment strategies and emergency operations are addressed in the SERP.

6.1.1 Updating and Review

The Sanitation Operations and Maintenance Department is responsible for the continuous review, updates, and dissemination of the Spill Emergency Response Plan (SERP). The Environmental Services Department plays a critical role in maintaining the document's adherence to all applicable state regulations. Contact information for MS4 agencies, should inter-agency notification be required, can be found on the following pages within this chapter.

CVWD's current SERP is accessible on the CVWD website as part of the Sewer System Management Plan (SSMP), Part B, Spill Emergency Response Plan, document. Alternatively, interested parties may contact the Clerk of the Board at (760) 398-2651 to obtain a copy.

For additional emergency requirements pertaining to emergency response procedures not outlined in the SERP, staff shall refer to the CVWD Emergency Response Plan, managed by Emergency Response Administrator.

6.2 MS4 Contact List

An MS4 contact list is a directory containing the names, titles, phone numbers, and/or email addresses of individuals or departments responsible for managing and implementing the Municipal Separate Storm Sewer System (MS4) program within a specific jurisdiction or agency.

6.2.1.1.1 Whitewater River Region Principal Permittees

6.2.1.2 Riverside County Flood Control & Water Conservation District

1995 Market Street
Riverside, CA 92501

**Watershed Protection Division
Chief**
Richard Boon Ph: 951.955.1273
rboon@rivco.org

Engineering Project Manager
Rohini Mustafa Ph: 951.955.1330
romustaf@rivco.org

Monitoring Programs Manager
Rebekah Guill Ph: 951.955.2901
rguill@rivco.org

Government Affairs Officer
Darcy Kuenzi Ph: 955.951.1688
dkuenzi@rivco.org

Data Manager
Abigail Suter Ph: 951.955.1734
adsuter@rivco.org

**Whitewater River Region Permit
Manager**
Ryan Kearns Ph: 951.955.2047
rkearns@rivco.org

6.2.1.3 County of Riverside

Riverside County Executive Office
Scott Bruckner
4080 Lemon Street, 4th Floor
Riverside, CA 92501 Ph:
951.955.9760 sbruckner@rivco.org

Riverside County TLMA
Jan Bulinski
3525 14th Street
Riverside, CA 92501 Ph: 951.955.6859
jbulinski@rivco.org

6.2.2 Colorado River Basin Regional Water Quality Control Board

RWQCB

73-720 Fred Waring Drive, Suite 100

Palm Desert, CA 92260

Front Desk: 760.346.749

Fax: 760.341.6820

Surface Water Protection Section Chief

Kai Dunn

Ph: 760.776.8986

Kai.Dunn@waterboards.ca.gov

Senior Environmental Scientist

Logan Raub

Ph: 760.776.8966

Logan.Raub@waterboards.ca.gov

Water Resources Control Engineer

Jay Mirpour

Ph: 760.673.9000

Jay.Mirpour@waterboards.ca.gov

6.2.3 Whitewater River Region NPDES Contacts

City of Banning

Ann Marie Loconte or Kevin Sin
99 E. Ramsey Street
Banning, CA 92220 Ph: 951.922.3130
amloconte@banningca.gov
ksin@banningca.gov

City of Cathedral City

Andrew Lee
68700 Avenida Lalo Guerrero
Cathedral City, CA 92234 Ph: 760.770.0319
alee@cathedralcity.gov

City of Desert Hot Springs

Nicholas Haecker
11999 Palm Drive
Desert Hot Springs, CA 92240 Ph:
760.329.6411, ext. 218
nhaecker@cityofdhs.org

City of Indio

Sara Toyoda
100 Civic Center Mall
Indio, CA 92201 Ph: 760.625.1815
stoyoda@indio.org

City of Palm Springs

Rick Minjares
3200 E. Tahquitz Canyon Way
Palm Springs, CA 92263
Ph: 760.323.8253 ext. 8741
Rick.Minjares@palmspringsca.gov

City of Rancho Mirage

Leland Cole
69-825 Highway 111
Rancho Mirage, CA. 92270 760.770.3224
ext. 272 lelandc@RanchoMirageCA.gov

Coachella Valley Water District (CVWD)

Vanessa Duong
P.O. Box 1058
Coachella, CA 92236 Ph: 760.398.2661
vduong@cvwd.org

City of Coachella

Abraham Vega
53-462 Enterprise Way
Coachella, CA 92236 Ph: 760.501.8100, ext.
153
avega@coachella.org

City of Indian Wells

Jill Moon
44-950 Eldorado Drive
Indian Wells, CA 92210 Ph: 760.346.2489
jmoon@indianwells.com

City of La Quinta

Amy Yu
78495 Calle Tampico
La Quinta, CA. 92253 Ph: 760.777.7047
ayu@laquintaca.gov

City of Palm Desert

Melanie Perry
73-510 Fred Waring Drive
Palm Desert, CA 92260 Ph: 760.776.6424
mperry@palmdesert

7 Sewer Pipe Blockage Control Program

OBJECTIVES

- Public education on proper waste disposal.
- Safe disposal planning and facility management.
- Legal enforcement against improper discharges.
- Grease removal device regulations.
- Facility inspection and enforcement.
- Targeted sewer cleaning for problem areas.
- FOG source control measures.

The Coachella Valley Water District (CVWD) has determined the implementation of a Fats, Oils, and Grease (FOG) Management Program is essential for its service area, which is characterized by a residential, golf, and tourism-focused community with limited industrial activity. The CVWD FOG Program³⁵, is tailored to this specific community profile. The program is administered by the Source Control Division within the Environmental Services Department.

7.1 Solids Management Plan

FOG collected at all Wastewater Reclamation Plants (WRPs) is processed and disposed of in landfills, both as part of grits and screenings and as centrally collected waste. Comprehensive FOG handling procedures are detailed within the Solids Management Plan³⁶.

7.2 Legal Authority and Prohibitions

7.2.1 FOG Program Requirement and Design Standards

7.2.1.1 Grease Interceptor Requirements

Coachella Valley Water District Code 4.05.380 mandates the installation of grease interceptors.

7.2.1.2 Interceptor Size Requirements:

The CVWD FOG Program incorporates specifications for appropriately sized grease interceptors, detailed maintenance requirements, and scheduled sewer inspections for repeat cleaning activities.

³⁵ CVWD FOG Program - <https://www.cvwd.org/DocumentCenter/View/1011/The-Fog-Program--Rules-PDF?bidId=>

³⁶ CVWD Solids Waste Management Plan 2019 available electronically on file.

7.3 Pipe Blockage Preventative Measures

The Coachella Valley Water District (CVWD) employs a comprehensive, multi-pronged approach to proactively mitigate sanitary sewer spills resulting from the accumulation of Fats, Oils, and Grease (FOG) within its collection system. This strategy encompasses:

- Inspection and Enforcement Program
- Proactive Public Education and Outreach
- Targeted Sewer Cleaning
- Root Control Treatment

7.3.1 Inspection and Enforcement Program

CVWD maintains a proactive inspection program focused on Food Service Establishments (FSEs), which are primary sources of FOG discharge. Regular inspections are conducted to verify the presence, functionality, and maintenance of grease interceptors and traps. This program includes thorough record-keeping of maintenance activities and waste disposal. When FSEs are found to be non-compliant with established regulations and best management practices, CVWD implements a progressive enforcement strategy. This may include issuing notices of violation, requiring corrective actions, and, in cases of persistent non-compliance, levying penalties to ensure adherence and prevent FOG from entering the sewer system. This robust inspection and enforcement component reinforces the educational efforts and provides a strong deterrent against improper FOG disposal.

7.3.1.1 FOG Prohibition Code

Coachella Valley Water District Code 4.05.340(B)(8)³⁷ stipulates that wastewater discharges exceeding 150 mg/L of FOG are prohibited without the explicit written authorization of the General Manager.

7.3.1.2 Inspection and Enforcement

The Source Control Division is equipped with sufficient personnel to conduct authorized inspections (CVWD Code 4.05.040) and enforce regulations regarding violations (CVWD Code 4.05.420).

³⁷ *Coachella Valley Water District Code be found electronically at: <https://cvwd.district.codes>.*

7.3.2 Proactive Public Education and Outreach

The Coachella Valley Water District (CVWD) implements targeted educational campaigns aimed at both residential and commercial customers. These initiatives provide clear guidance on proper disposal methods for FOG and other materials that can contribute to blockages, such as non-flushable wipes. Outreach efforts utilize various communication channels, including website resources, community events, and direct mailings, to raise awareness and foster responsible practices. For Food Service Establishments (FSEs), specific outreach includes information on the proper installation, operation, and maintenance of grease interceptors and traps, emphasizing the regulatory requirements and the environmental and operational impacts of non-compliance.

7.3.2.1 Public Education and Outreach

CVWD implements a comprehensive public education and outreach program to promote responsible Fats, Oils, and Grease (FOG) disposal practices. This program leverages a variety of communication channels and direct engagement strategies, including:

- Water Reclamation Plant 10 (WRP-10) Public Tours: Educational tours of WRP-10 incorporate discussions on proper household FOG disposal techniques.
- "Water News" Newsletter and Bill Inserts³⁸: FOG disposal information is disseminated via the CVWD's newsletter and as inserts in customer billing statements.
- Source Control Inspector Outreach: Source Control inspectors conduct direct educational outreach to food service establishments and residential customers, emphasizing FOG best management practices.

7.3.2.2 Informative Materials

Informative materials on FOG disposal are included in annual reviews distributed to CVWD Sanitation customers, available at public locations, and accessible online.

7.3.2.3 Educational Flyers:

- FOG Guidance, Kitchen Best Management Practices³⁹
- Private Sewer Lateral (PSL) Responsibilities, Understanding Your Private Sewer lateral⁴⁰

7.3.2.4 CVWD Website Communication

- Wastewater Treatment⁴¹
- Protect Our Sewers⁴²

³⁸ CVWD Water News Bill Inserts - <https://www.cvwd.org/225/Bill-Inserts>.

³⁹ CVWD Kitchen Best Management Practices - <https://www.cvwd.org/documentcenter/view/6575>.

⁴⁰ CVWD Understanding Your PSL Fact Sheet - <https://www.cvwd.org/documentcenter/view/6875>.

⁴¹ CVWD Wastewater Treatment - <https://www.cvwd.org/163/Wastewater-Treatment>.

⁴² CVWD Protect Our Sewers - <https://www.cvwd.org/393/Protect-our-Sewers>.

7.3.3 Targeted Sewer Cleaning

Sanitary sewer systems exhibiting increased cleaning frequency requirements due to Fats, Oils, and Grease (FOG) accumulation or other flow-impeding issues are proactively placed on a provisional designated repeat cleaning schedule and will be placed on designated evaluation schedule to address possible source issues before placing the asset on a set preventative maintenance schedule.

7.3.3.1 Enhanced Sewer Cleaning Protocols

The CVWD implements targeted sewer cleaning protocols for specific segments of the sanitary sewer system that demonstrate a heightened need for maintenance due to recurring FOG accumulation or other factors that impede flow. These areas, identified through operational data and increased cleaning frequency requirements, are proactively placed on designated repeat cleaning schedules to mitigate potential blockages and maintain optimal conveyance capacity.

This focused approach, further detailed in Section 4.2.2 Collection Line Maintenance, ensures that resources are strategically allocated to address known problem areas, thereby enhancing system reliability and reducing the risk of spills. The scheduling and frequency of these targeted cleanings are continuously evaluated and adjusted based on ongoing monitoring and operational experience to ensure their effectiveness.

7.3.4 Root Control Program

Comprehensive information regarding the Collection System Department's Root Control Program is detailed in Chapter 4, Section 4.2, entitled "Part 2 – Preventative Maintenance – O&M, Root Control Program." A summary of the program's key elements is provided below:

The Root Treatment Program proactively mitigates root intrusion, a primary cause of sewer pipe blockages, through the periodic application of specialized chemical treatments. This targeted approach inhibits root growth within sewer lines, preventing the gradual accumulation of biomass that can restrict flow capacity and ultimately lead to costly and disruptive blockages. By systematically addressing root intrusion at its source, the program enhances the reliability and operational efficiency of the collection system, reducing the frequency of emergency maintenance and ensuring consistent wastewater conveyance.

8 System Evaluation and Capacity Assurance Program

OBJECTIVES

- System condition checks and assessments
- Capacity planning
- Prioritized repairs
- Infrastructure upgrade plan

The Coachella Valley Water District (CVWD) operates and maintains a sanitary sewer collection system engineered with sufficient capacity to effectively manage peak dry and wet-weather flows. Over the past five years, operational data confirms the absence of capacity-related spills within CVWD's service area. While acknowledging the potential impact of evolving weather patterns on flow dynamics, the existing infrastructure is designed to adequately convey wet-weather flows. To further ensure system resilience, CVWD employs an advanced hydraulic model to proactively assess performance and identify potential vulnerabilities during significant storm events.

8.1 Sanitation Master Plan

CVWD's Sanitation Master Plan Update 2020⁴³ is a comprehensive, long-term capital improvement plan designed to guide the development and management of the CVWD's wastewater collection and treatment infrastructure. This plan, covering the period from 2021 through 2040, outlines recommendations for:

- Refurbishing existing assets: Identifying and planning for the rehabilitation or replacement of aging components within the sanitation system.
- Optimizing operations: Implementing strategies and technologies to improve the efficiency and effectiveness of wastewater collection and treatment processes.
- Satisfying projected capacity needs: Ensuring that the system can accommodate the anticipated growth and demands of the Coachella Valley's population and economy.
- The Sanitation Master Plan Update 2020 serves as a blueprint for CVWD's investments in its wastewater infrastructure over the next two decades. It likely includes specific projects related to pipelines, lift stations, and water reclamation plants to maintain a reliable and sustainable sanitation system for the region.

8.1.1 Program Environmental Impact Report (PEIR)

The Final PEIR for the Sanitation Master Plan Update 2020 was certified on December 13, 2022, indicating that the environmental impacts of the proposed projects were thoroughly analyzed and addressed through mitigation measures where necessary. The PEIR covered various environmental resource areas, including air quality, biological resources, cultural resources,

⁴³ CVWD Sanitation Master Plan Update 2020- <https://www.cvwd.org/492/Sanitation-Master-Plan-Update-2020>

energy, greenhouse gas emissions, hydrology and water quality, land use, planning, agriculture, noise, and tribal cultural resources.

8.2 Sanitation Master Plan Volume 2 Collection System CIP

CVWD has developed a comprehensive Sanitation Master Volume 2 Collection System CIP⁴⁴ (SM CS-CIP) that meets the requirements of Water Quality Order No. 2022-0103-DWQ. Due to its extensive scope, the SM CS-CIP is incorporated into this Sewer System Management Plan (SSMP) by reference and encompasses all aspects of the CVWD sanitary sewer system.

The Engineering Department is responsible for the ongoing monitoring and updating of the SM CS-CIP to ensure it remains aligned with evolving community needs and facility conditions. The Master Plan evaluates portions of the sanitary sewer system identified as having hydraulic deficiencies that could potentially lead to sanitary spills. It proposes a phased CIB for short- and long-term remediation of these deficiencies, encompassing prioritization, alternative analysis, and a detailed project schedule. The document establishes design and planning criteria and provides an overview of CVWD’s existing sewer collection system. Hydraulic modeling software was utilized to assess system capacities, identify existing deficiencies, and recommend improvements to enhance system reliability.

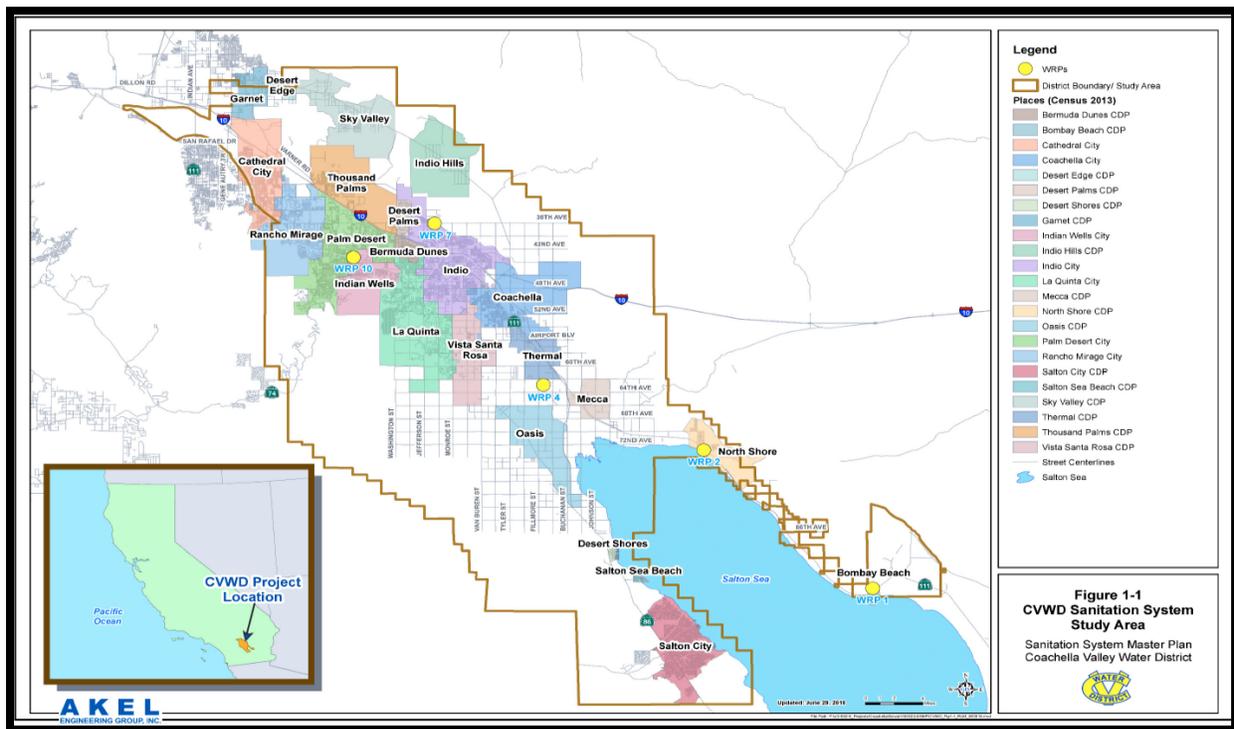


Figure 8 CVWD Study Area for Sanitary Sewer System Master Plan

⁴⁴ CVWD Sanitation Master Plan - \\pdm100\User_Data\ENGPOOL\ENG-D&S Section\Sanitation\Sanitation Master Plan Update 2017\Deliverables\~Final_112922\~Final 111622

8.2.1 Sanitation Master Plan Structure

The Master Plan is structured into seven sections, supplemented by appendices containing supporting documentation. A summary of each chapter is provided below:

Section 1 – Introduction:

Presents the background and objectives of the Master Plan.

Section 2 – Existing Sanitation System:

Provides an overview of CVWD’s sewer collection system and details the development and calibration of the hydraulic model used to identify system deficiencies and recommend enhancements.

Section 3 – System Design Criteria and Hydraulic Model Development:

Establishes the design criteria for wastewater collection system capacity, including acceptable pipe gravity slopes and flow depths, based on historical flow analysis at CVWD’s water reclamation plants.

Section 4 – System Capacity Evaluation and Conceptual Improvement Plan:

Presents the results of the capacity evaluation and proposes improvements to address existing deficiencies and accommodate future growth, considering technical requirements, cost-effectiveness, and operational reliability.

Section 5 - Risk Assessment and Conceptual Improvement Plan:

CVWD conducted a pipeline condition and risk assessment for sanitation lines within 500 feet of the Whitewater and Coachella Canals to mitigate potential contamination of these open channel stormwater conveyance systems. The assessment recommended infrastructure improvements to address identified risks.

Section 6 - Septic-to-Sewer Conversions and Conceptual Improvement Plan:

CVWD is converting septic areas to gravity sewer connections, focusing on the eastern service area identified in the 2018 ECVWSP report. This effort aims to connect small water systems, often serving disadvantaged communities, to WRP4, with pipeline sizing considering future growth.

Section 7 - Asset Management:

CVWD is developing an asset management database in NexGen to assess sanitation infrastructure. This master plan includes preliminary findings. Capital improvements currently follow the Five-Year CIP but will transition to NexGen-based planning upon completion of the database.

8.3 Operations and Capital Improvement Budget

CVWD's commitment to maintaining a robust sewer collection system is further demonstrated in the Operations and Capital Improvement Budget 2024-25⁴⁵. This document outlines the recommended Capital Improvement Budget (CIB) for the sewer collection system, strategically phased through the planning horizon year of 2030. The CIB is directly informed by comprehensive system evaluations and proposed infrastructure improvements. Detailed information regarding these evaluations and planned improvements can be accessed electronically in the CVWD Archive Center. This proactive capital investment strategy ensures the continued reliability and capacity of CVWD's wastewater infrastructure to meet the evolving needs of the service area.

All Fund Expense Summary	FY 2023 Actual	FY 2024 Actual ⁽¹⁾	FY 2024 Budget	FY 2025 Budget	Budget Change	% Change
Total Operating Expenses	\$ 284,136,261	\$ 305,933,193	\$ 338,713,876	\$ 324,616,086	\$ (14,097,790)	-4.2%
Internal Debt Service	5,582,345	3,945,387	3,945,387	3,945,387	-	-
External Debt Service	4,446,675	5,464,792	8,847,766	46,381,470	37,533,704	424.2%
Capital Improvement Budget	111,479,948	94,650,737	121,031,254	158,342,157	37,310,903	30.8%
Legal Claim Contingency Accrual ⁽²⁾	-	58,294,838	-	-	-	-
Other ⁽³⁾	82,315	20,907,436	-	-	-	-
Total Budgeted Expenses	\$ 405,727,545	\$ 489,196,384	\$ 472,538,283	\$ 533,285,100	\$ 60,746,817	12.9%

⁽¹⁾ Unaudited
⁽²⁾ Per Generally Accepted Accounting Principles (GAAP), the Legal Claim Contingency Accrual is a set aside of funding for potential future legal claims, and does not currently reflect an actual FY 2024 expenditure.
⁽³⁾ Other Non-Operating Expenses includes prior period adjustments related to the GASB 96 implementation.

Figure 9 Operation and Capital Improvement Budget 2024-25 Expense Summary

Copies of the afore-mentioned documents are available upon request from the Clerk of the Board at (760) 398-2661, ext. 2217 and complete a public information request.

⁴⁵ CVWD 2024-25 Operating and CIP Budget - <https://www.cvwd.org/ArchiveCenter/ViewFile/Item/1090>

9 Monitoring, Measurement, and Program Modification

OBJECTIVES

- Maintain relevant information that can be used to establish and prioritize appropriate Sewer System Management Plan (SSMP) activities;
- Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;
- Assess the success of the preventative maintenance program;
- Update program elements, as appropriate, based on monitoring or performance evaluations; and
- Identify and illustrate spill trends, including: frequency, location, and volume.

9.1 Maintenance of Relevant Data

The Coachella Valley Water District (CVWD) maintains complaint and blockage records in electronic and report format, maintains electronic logs of cleaning, repairs, other preventive maintenance activities, and records problems (e.g., excessive debris, observed manhole defects) identified through regular sewer maintenance activities on special report forms and in the implemented Computerized Maintenance Management System (CMMS) program, NexGen. This information is used to establish and prioritize appropriate SSMP activities.

9.2 Monitoring and Assessment

CVWD employs a comprehensive data management system to support the monitoring and assessment of SSMP activities, this consolidated data is utilized to inform the development and prioritization of appropriate SSMP activities and is stored on the NexGen CMMS platform.

This system encompasses:

- **Complaint and Blockage Records:** Electronic and report formats are utilized to maintain detailed records of customer complaints and sewer system blockages.
- **Maintenance Activity Logs:** Electronic logs document all cleaning, repair, and other preventative maintenance activities.
- **Problem Reporting:** Standardized report forms and the CMMS are used to record issues identified during routine sewer maintenance, such as excessive debris accumulation and manhole defects.

9.2.1 Software Utilization and SSMP Evaluation

The CVWD employs NexGen asset management software, an enterprise-wide computerized business management application, to manage and track SSMP-related activities. NexGen's workflow system facilitates the comprehensive management of preventative maintenance work, associated costs, and detailed records. This system ensures the generation of accurate work order records, documenting the completion of tasks relevant to the Sewer System Management Plan (SSMP) objectives. Reports generated by NexGen are used to assess compliance with the

SSMP's outlined tasks. NexGen enables the automated scheduling and routing of maintenance activities based on predetermined preventative maintenance schedules. Reports detailing these schedules and periodic performance evaluations are generated to monitor success.

The evaluation of the SSMP's effectiveness is a continuous and collaborative process. All CVWD personnel involved in the management of the sewer collection system contribute to this evaluation, providing feedback and suggestions for ongoing process improvement.

9.2.1.1 Data Driven Decision Making

NexGen offers a powerful platform for tracking CVWD's customer service calls and managing Operations and Maintenance preventative maintenance schedules. By effectively utilizing its features, CVWD staff will monitor and manage sewer systems trends and establish a data-driven monitoring and measurement program that enhances operational efficiency, improve CVWD customer satisfaction, and ensure the long-term reliability of the collection system infrastructure.

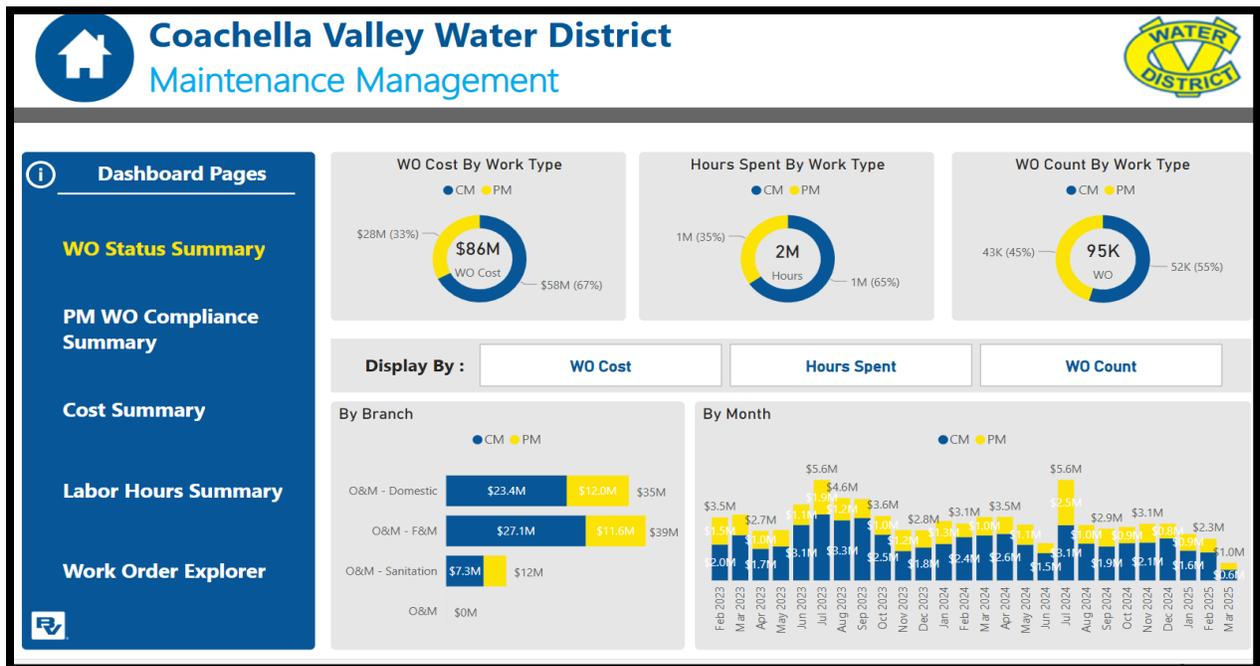


Figure 10 CVWD Maintenance Management Dashboard

9.2.1.2 Supplemental Monitoring Programs

The Local Hazard Mitigation Plan⁴⁶ was developed and adopted by CVWD as part of its commitment to ensuring the safety, reliability, and resilience of its water and wastewater systems and to protect the communities it serves. This plan is a comprehensive strategy that aims to reduce the potential for loss of life, property damage, and service interruptions resulting from natural and human-caused hazards.

9.3 Spill Data Recording Analysis

Initiated in September 2007, CVWD has utilized the State Water Resources Control Board's (SWRCB) California Integrated Water Quality System (CIWQS) electronic spill reporting system. This system ensures accurate recording of critical spill data, including number, volume, location, and cause.

All records relevant to the establishment and prioritization of SSMP activities are maintained within the Collection Systems Division of the Sanitation Branch, Operations Department. Additionally, these records are archived within Coachella Valley Water District's (CVWD) records management system under file number 0732.31.

9.3.1 Performance Measurement and Adaptive Management

The effectiveness of the SSMP is primarily evaluated based on the frequency and characteristics of sanitary sewer spills (SSS). CVWD maintains a comprehensive database of spill events and conducts rigorous trend analyses to assess the SSMP's efficacy.

Tables 21 through 24 provide a categorized analysis of spills reported by CVWD from CY2019 to 2024, subsequent to the implementation of the 2019 Sanitary Sewer Management Plan (SSMP). The primary record, which is updated continuously, includes the corresponding spill volumes. Between September 2007 and December 2024, CVWD documented a total of 396 spills, with individual volumes ranging from 5 gallons to 2.5 million gallons.

An analysis of CVWD's sewer collection system performance (*Figure 8*) during the reporting period indicates a general trend of decreasing spill frequency in Category 1-3 and increased Category 4 spill reports in 2023 were as a result from a Natural Disaster. Furthermore, no statistically significant correlation was identified between spill frequency and specific facility locations.

⁴⁶ CVWD Local Hazard Mitigation Plan - <https://www.cvwd.org/611/Local-Hazard-Mitigation-Plan>

9.3.1.1 Adaptive Management

Based on the continuous monitoring and evaluation of the Sanitary Sewer Management Plan (SSMP)'s effectiveness, program modifications may be implemented to further enhance system performance. All proposed modifications are subject to the approval of the Assistant Director of Operations – Sanitation and the Assistant General Manager of Operations and Maintenance (AGM). The AGM will determine if a proposed modification requires additional approval from the General Manager prior to implementation.

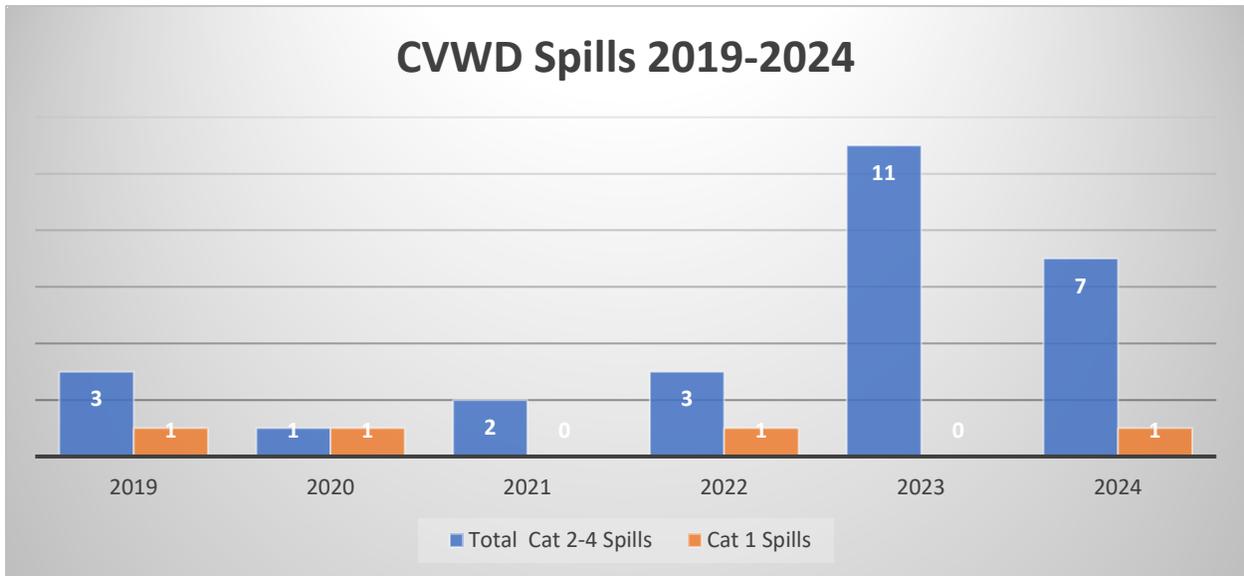


Figure 11 CVWD Spills 2019-2024

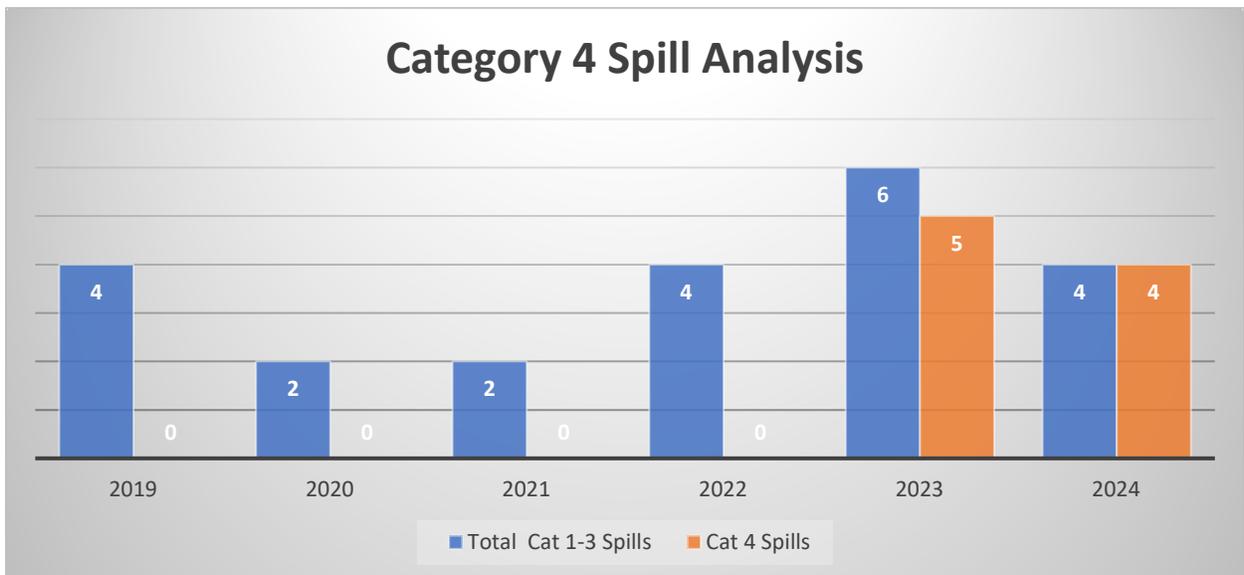


Figure 12 Category 4 Analysis

Table 23 CVWD Sanitary Assets Covered in Performance Metrics

Performance Measure CY2019-CY2024	Total Assets	Source
Total miles of gravity sewer	1,152	GIS
Total miles of pressure sewer	76	GIS
Total number of manholes	23,283	GIS
Total number of sewage lift stations	25	O&M Records

Table 24 2019-2024 SSS Total Volumes and Percentages Combined

Performance Measure CY2019-CY2024	Total	Source
Number of SSS by volume	31	CIWQS-CVWD SSS Spreadsheet
Total volume of SSS (gal)	1,184,044	CIWQS-CVWD SSS Spreadsheet
Volume recovered of overall SSS volume (gal)	920,470	CIWQS-CVWD SSS Spreadsheet
Volume recovered of overall SSS volume (%)	78%	CIWQS-CVWD SSS Spreadsheet
Net volume of SSS (total minus recovered)	263,574	CIWQS-CVWD SSS Spreadsheet
Percentage of overall total SSS volume	22%	CIWQS-CVWD SSS Spreadsheet

Table 25 CY2024 Average Spill Response Time

Performance Measure CY2024	Total	Source
Response time (AVG Minutes)	35	CVWD SSS Spreadsheet
Response time – After Hours (AVG Minutes)	16	CVWD SSS Spreadsheet

Table 26 CY2024 Total Maintenance UOP

Performance Measure CY2024	Total	Source
Number of blockages in the past year	4	NEXGEN /PM Tracker
Repeat schedule cleaning (LF)	395,787	NEXGEN /PM Tracker
Total CLM cleaning (LF)	1,331,975	NEXGEN /PM Tracker
Total root control (LF)	35,049	Root Control Treatment GIS
Total CCTV pipeline assessment (LF)	543,832	NEXGEN /PM Tracker
Total manholes inspected	4,185	NEXGEN /PM Tracker

Table 27 2019-2024 Sanitary Sewer Spill Metrics

Performance Measure CY2019-CY2024	Total	Source
Total number of SSS - Including Category 4	31	CIWQS-CVWD SSS Spreadsheet
Total number of SSS by Category		
Category 1	4	CIWQS-CVWD SSS Spreadsheet
Category 2	4	CIWQS-CVWD SSS Spreadsheet
Category 3	12	CIWQS-CVWD SSS Spreadsheet
Category 4	11	CIWQS-CVWD SSS Spreadsheet
Number of dry weather vs wet weather SSS		
Dry Weather	23	CIWQS-CVWD SSS Spreadsheet
Wet Weather	8	CIWQS-CVWD SSS Spreadsheet
Percentage of dry weather vs wet weather SSS		
Dry Weather	74%	CIWQS-CVWD SSS Spreadsheet
Wet Weather	36%	CIWQS-CVWD SSS Spreadsheet
Number of SSS by cause		
Blockages	9	CIWQS-CVWD SSS Spreadsheet
Operator Error	1	CIWQS-CVWD SSS Spreadsheet
Infrastructure Failure	7	CIWQS-CVWD SSS Spreadsheet
Inflow and Infiltration	1	CIWQS-CVWD SSS Spreadsheet
Electrical Failure	0	CIWQS-CVWD SSS Spreadsheet
Capacity Deficiency	0	CIWQS-CVWD SSS Spreadsheet
Natural Disaster	8	CIWQS-CVWD SSS Spreadsheet
Contractor Error	3	CIWQS-CVWD SSS Spreadsheet
Unknown/Other	2	CIWQS-CVWD SSS Spreadsheet
Number of SSS per 100 miles of sewer per year		
2019	0.03	CIWQS-CVWD SSS Spreadsheet
2020	0.02	CIWQS-CVWD SSS Spreadsheet
2021	0.02	CIWQS-CVWD SSS Spreadsheet
2022	0.04	CIWQS-CVWD SSS Spreadsheet
2023	0.11	CIWQS-CVWD SSS Spreadsheet
2024	0.08	CIWQS-CVWD SSS Spreadsheet
Locations with repeat SSS	2	CIWQS-CVWD SSS Spreadsheet
SSS locations on rehabilitated assets	0	Sanitation Master Plan

Table 28 20219-2024 SSS Volume Metrics Per Year

Performance Measure CY2019-CY2024	Total	Source
Volume of SSS per 100 miles per year		
2019	124	CIWQS-CVWD SSS Spreadsheet
2020	1,567	CIWQS-CVWD SSS Spreadsheet
2021	6	CIWQS-CVWD SSS Spreadsheet
2022	130	CIWQS-CVWD SSS Spreadsheet
2023	9,957	CIWQS-CVWD SSS Spreadsheet
2024	57	CIWQS-CVWD SSS Spreadsheet
Volume of SSS per year		
2019	12,375	CIWQS-CVWD SSS Spreadsheet
2020	156,684	CIWQS-CVWD SSS Spreadsheet
2021	605	CIWQS-CVWD SSS Spreadsheet
2022	12,975	CIWQS-CVWD SSS Spreadsheet
2023	995,709	CIWQS-CVWD SSS Spreadsheet
2024	5,696	CIWQS-CVWD SSS Spreadsheet
Percentage of SSS by volume		
2019	1%	CIWQS-CVWD SSS Spreadsheet
2020	13%	CIWQS-CVWD SSS Spreadsheet
2021	0%	CIWQS-CVWD SSS Spreadsheet
2022	1%	CIWQS-CVWD SSS Spreadsheet
2023	84%	CIWQS-CVWD SSS Spreadsheet
2024	1%	CIWQS-CVWD SSS Spreadsheet
Volume Recovered of SSS per year		
2019	7,037	CIWQS-CVWD SSS Spreadsheet
2020	28,020	CIWQS-CVWD SSS Spreadsheet
2021	380	CIWQS-CVWD SSS Spreadsheet
2022	7,080	CIWQS-CVWD SSS Spreadsheet
2023	874,231	CIWQS-CVWD SSS Spreadsheet
2024	3,722	CIWQS-CVWD SSS Spreadsheet
Percentage Recovered of SSS by volume		
2019	1%	CIWQS-CVWD SSS Spreadsheet
2020	3%	CIWQS-CVWD SSS Spreadsheet
2021	0%	CIWQS-CVWD SSS Spreadsheet
2022	1%	CIWQS-CVWD SSS Spreadsheet
2023	95%	CIWQS-CVWD SSS Spreadsheet
2024	0%	CIWQS-CVWD SSS Spreadsheet

10 Program Audits

OBJECTIVES

- System condition checks and assessments.
- Annual Report Requirements
- SSMP Audit Requirements

The Coachella Valley Water District (CVWD) conducts audits and updates to the Sewer System Management Plan (SSMP), as mandated by the Waste Discharge Requirements (WDR). More frequent updates may be implemented if significant modifications to the Plan are deemed necessary or if regulatory changes occur between scheduled audits.

The audit structure is designed to systematically review each SSMP element, ensuring the Plan:

- Contains current and accurate information.
- Satisfies all applicable regulatory requirements.
- Demonstrates the effectiveness of implemented programs in achieving CVWD's operational goals for the collection system, as defined in Chapter 1 Introduction and Goals.

Any required updates or changes, including their content and implementation timelines, are documented within the audit report. As part of the audit process, CVWD staff will update critical information within the SSMP, such as contact details, key personnel within the response communication chain, and other relevant data, as necessary. A comprehensive SSMP update is conducted every six years. All changes made to the SSMP are meticulously documented in the Change Log.

10.1 Annual Reporting

- Annual Reports, covering the calendar year (January 1 to December 31), are due by April 1 of each year.
- Reports must be submitted directly to the online California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database.
- The Enrollee's Legally Responsible Official is required to certify the Annual Report within CIWQS.

10.2 Sewer System Management Plan Auditing

Audits are intended to be constructive, ensuring the Sewer System Management Plan (SSMP) adequacy and effective implementation. Audits adhere to best practices, including:

- Identification of deficiencies (findings or recommendations).
- Implementation of corrective actions.
- Audits are generally conducted during the first quarter (January-February-March) of the scheduled audit due year (e.g., 2024, 2027, 2030).

10.2.1 Audit Types

To ensure continuous improvement and regulatory adherence, a tiered audit approach is recommended:

Annual Focused Audits:

Conduct targeted audits at least once a year. These audits should concentrate primarily on the Spill Emergency Response Plan (SERP) and specific critical components of the Sewer System Management Plan (SSMP).

Triennial Comprehensive Audits:

Execute audits every three years to comprehensively evaluate the efficacy of the Sewer System Management Plan (SSMP) and to assess the Coachella Valley Water District's (CVWD) compliance with its established SSMP protocols.

10.2.2 Audit Initiation Process

The Sewer System Management Plan (SSMP) audit process is initiated under the authority of the Assistant General Manager of Operations and Maintenance (AGM). The specific commencement of the audit is delegated to the Collection System Supervisor and/or the Wastewater Operations Manager, reporting to the Assistant Director of Operations – Sanitation. To ensure a structured and comprehensive audit, it is recommended that the initiation process include the following steps:

- Designation of a lead auditor.
- Determination of the audit scope.
- Formation of the audit team, comprising:
 - Personnel from the Collection Systems Division (required).
 - Personnel from the Environmental Services Division (required).
 - Other relevant department personnel, as needed.
- Determination of the audit approach (checklists, interviews, inspections, records reviews).
- Assignment of tasks and deadlines by the lead auditor.
- Documentation of audit results (checklists, inspection logs, interview sheets, reports).
- Itemization of deficiencies and development of corrective actions.
- Documentation of completed corrective actions within the audit file.
- Inclusion of necessary Plan updates in audit findings, with draft revisions serving as corrective action closure.
- Review of CVWD’s spill history and potential adjustments to the Communications Program.
- The AGM reviews the final audit and corrective action closures.
- The delegated LRO uploads the certified SSMP to CIWQS.

10.3 Sewer System Management Plan Updates:

The Legally Responsible Official is mandated to certify and upload a governing entity-approved SSMP update to the California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database every six years, calculated from the prior update's regulatory due date. In instances where direct electronic uploads are not feasible, a hyperlink to the updated SSMP on the CVWD’s official website is required. The updated SSMP must incorporate, at a minimum:

- A concise summary of revisions informed by internal audit findings.
- Documentation of all other pertinent sewer system management modifications.

10.3.1 SSMP Update Supporting Documents

- SSMP Audit Form
- Sewer System Management Plan - Change Log

11 Communication Program

OBJECTIVES

- System condition checks and assessments
- Regulatory Compliance
- Public Outreach and Website Management
- Interagency Communication
- Spill Communication Management

A well-structured Communication Program within a Sewer System Management Plan (SSMP) is vital for transparency, public trust, and effective collaboration. The Coachella Valley Water District (CVWD) Communications Department consistently updates "News and Information"⁴⁷ to inform the public about CVWD activities (on website under " News and Information" Page). Regulatory Compliance.

11.1 Key Communication Program Components

11.1.1 Stakeholder Engagement

CVWD facilitates regular communication with interested parties regarding SSMP implementation and performance and provides avenues for public input and feedback.

11.1.2 Public Accessibility

A copy of the CVWD's SSMP is available under "Sewer System Management Plan" in the Business section of the CVWD Website⁴⁸ public comments are welcomed via the website or by phone (760-398-2651).

11.1.2.1 Website

CVWD website address is provided on all customer and stakeholder communication materials and serves as the central source for public information and input on the SSMP. The site enables public review and commentary on the SSMP document, performance reports, and updates. SSMP revisions are reviewed by the Operations Department and implemented on the website by the Communications Department.

11.1.2.2 Inter-agency Communication

Utilizes existing committees of the Colorado River Basin Section (CORBS) of the California Water Environment Association (CWEA) for communication with tributary and satellite systems.

⁴⁷ CVWD News and Information - <https://www.cvwd.org/156/News-Information>

⁴⁸ CVWD Sewer System Management Plan - <https://www.cvwd.org/213/Sewer-System-Management-Plan-SSMP>

11.2 Spill Management Communication

The Coachella Valley Water District's (CVWD) proactive approach to sanitary sewer system management has resulted in a demonstrably strong record, maintaining spill occurrences within acceptable operational limits and effectively preventing associated community health hazards. Consequently, the established communication program is strategically designed with a level of community involvement commensurate with the current stable operating conditions. However, recognizing the dynamic nature of infrastructure management and regulatory requirements, CVWD conducts thorough reviews of spill history during scheduled audits.

This practice ensures that the communication program remains adaptable and responsive to evolving conditions, allowing for timely adjustments to maintain optimal public engagement and transparency.

12 Definitions

The General Order specifies the definitions of several terms, including spill categories and other terminology. Frequently used terms are defined below; see [General Order WQ 2022-0103-DWQ](#) at (<https://www.waterboards.ca.gov>) for a complete list.

ANNUAL REPORT: An Annual Report (previously termed as Collection System Questionnaire in previous California State Water Board Order No. 2006-0003-DWQ) is a mandatory report in which CVWD provides a calendar-year up-date of its efforts to prevent spills.

BASIN PLAN: A Basin Plan is a water quality control plan specific to a Regional Water Quality Control Board (Regional Water Board), that serves as regulations to: (1) define and designate beneficial uses of surface and groundwaters, (2) establish water quality objectives for protection of beneficial uses, and (3) provide implementation measures.

CAL OES: California Office of Emergency Services

CALIFORNIA INTEGRATED WATER QUALITY SYSTEM (CIWQS): CIWQS is the statewide database that provides for mandatory electronic reporting as required in State and Regional Water Board-issued waste discharge requirements.

COACHELLA VALLEY WATER DISTRICT (or District): Coachella Valley Water District. CVWD was formed in 1918 to protect and conserve local water sources. Since then, the District has grown into a multifaceted agency that delivers irrigation and domestic (drinking) water, collects and recycles wastewater, provides regional storm water protection, replenishes the groundwater basin and promotes water conservation.

COLLECTION SYSTEMS (SANITATION): Conveyance piping, lift stations, force mains, and any appurtenances thereto that convey untreated or partially treated wastewater flows to treatment facilities.

DATA SUBMITTER: A Data Submitter is an individual designated and authorized by CVWD's Legally Responsible Official to enter spill data into the online CIWQS Sanitary Sewer System Database. A Data Submitter does not have the authority of a Legally Responsible Official to certify reporting entered into the online CIWQS Sanitary Sewer System Database.

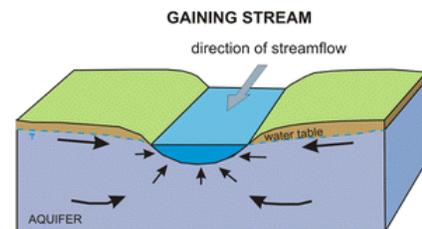
DRAINAGE CONVEYANCE SYSTEM: A drainage conveyance system is a publicly- or privately-owned separate storm sewer system, including but not limited to drainage canals, channels, pipelines, pump stations, detention basins, infiltration basins/facilities, or other facilities constructed to transport stormwater and non-stormwater flows.

ENROLEE: As defined in Board Order reference number 1 below, all federal and state agencies, municipalities, counties, districts, and other public entities that own or operate sanitary sewer systems greater than one mile in length that collect and/or convey untreated or partially treated wastewater to a publicly owned treatment facility in the State of California are referred to as “Enrollees”.

ENVIRONMENTALLY SENSITIVE AREA: An environmentally sensitive area is a designated agricultural and/or wildlife area identified to need special natural landscape protection due to its wildlife or historical value.

FOG: Fats, Oils, and Grease: Refers to fats, oils, and grease typically associated with food preparation and cooking activities that can cause blockages in the sanitary sewer system.

HYDROLOGICALLY CONNECTED: Two waterbodies are hydrologically connected when one waterbody flows, or has the potential to flow, into the other waterbody. For the purpose of the SWRCB Order, groundwater is hydrologically connected to surface water when the groundwater feeds into the surface water. See image, right. The surface waterbody in this example is termed a gaining stream as it gains flow from surrounding groundwater.



LATERAL (INCLUDING LOWER AND UPPER LATERAL): A lateral is an underground segment of smaller diameter pipe that transports sewage from a customer’s building or property (residential, commercial, or industrial) to CVWD’s main sewer line in a street or easement. Upper and lower lateral boundary definitions are subject to local jurisdictional codes and ordinances, or private system ownership. A lower lateral is the portion of the lateral located between the sanitary sewer system main, and either the property line, sewer clean out, curb line, established utility easement boundary, or other jurisdictional locations. An upper lateral is the portion of the lateral from the property line, sewer clean out, curb line, established utility easement boundary, or other jurisdictional locations, to the building or property.

LEGALLY RESPONSIBLE OFFICIAL: A Legally Responsible Official is an official representative, designated by CVWD, with authority to sign and certify submitted information and documents required by State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR).

MAINLINE SEWER: Refers to CVWD wastewater collection system piping downstream of the sewer laterals that is not a private sewer lateral connection to a building.

MANHOLE: Also denoted as Maintenance Hole, refers to an engineered structure that is intended to provide access to a sanitary sewer for maintenance and inspection, previous referred to as a “manhole.”

NOTIFICATION: Notification means the notifying of appropriate parties of a spill event or other activity.

NOTIFICATION, OF A SPILL: Refers to the time at which the department becomes aware of a spill event through observation or notification by the public or other source.

NUISANCE: For the purpose of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR), a nuisance, as defined in Water Code section 13050(m), is anything that meets all of the following requirements:

- Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property;
- Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal; and
- Occurs during, or as a result of, the treatment or disposal of wastes.

OES: Office of Emergency Services, California

PREVENTATIVE MAINTENANCE: Refers to maintenance activities intended to prevent failures of the wastewater collection system facilities (e.g. cleaning, CCTV, inspection).

PRIVATE LATERAL SEWAGE SPILL: Spills that are caused by blockages or other problems within a privately-owned lateral.

PRIVATE SANITARY SEWER SYSTEM: A private sanitary sewer system is a sanitary sewer system of any size that is owned and/or operated by a private individual, company, corporation, or organization. A private sanitary sewer system may or may not connect into a publicly owned sanitary sewer system.

PRIVATE SEWER LATERAL: A private sewer lateral is the privately-owned lateral that transports sewage from private property(ies) into a sanitary sewer system.

POTENTIAL TO DISCHARGE, POTENTIAL DISCHARGE: Potential to Discharge, or Potential Discharge, means any exiting of sewage from a sanitary sewer system which can reasonably be expected to discharge into a water of the State based on the size of the sewage spill, proximity to a drainage conveyance system, and the nature of the surrounding environment.

RECEIVING WATER: A receiving water is a water of the State that receives a discharge of waste.

RECORDKEEPING: Recordkeeping means the maintaining of information and data in an official records storage system.

REPORTING: Reporting means the reporting of information and data into the online California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database.

RWQCB: Regional Water Quality Control Board

SANITARY SEWER SYSTEM: A sanitary sewer system is a system that is designed to convey sewage, including but not limited to, pipes, maintenance holes, pump stations, siphons, wet wells, diversion structures and/or other pertinent infrastructure, upstream of a wastewater treatment plant headworks, including:

- Systems owned and/or operated by CVWD;
- Temporary conveyance and storage facilities, including but not limited to temporary piping, vaults, construction trenches, wet wells, impoundments, tanks, and diversion structures.
- For purpose of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR), sanitary sewer systems include only systems owned and/or operated by CVWD.

SATELLITE SEWER SYSTEM: A satellite sewer system is a portion of a sanitary sewer system owned or operated by a different owner than the owner of the downstream wastewater treatment facility ultimately treating the sewage.

SEWAGE: Sewage, and its associated wastewater, is untreated or partially treated domestic, municipal, commercial and/or industrial waste (including sewage sludge), and any mixture of these wastes with inflow or infiltration of stormwater or groundwater, conveyed in a sanitary sewer system.

SEWER BACKUP: A sanitary sewer spill resulting from a sanitary sewer system spill, operational failure, and/or infra-structure failure in a publicly owned sewer system, with an appearance point and subsequent discharge into a structure.

SPILL SPECIFIC MONITORING: Spill-specific Monitoring means the gathering of information and data for a specific spill event to be reported or kept as records.

SPILL: A spill is a discharge of sewage from any portion of a sanitary sewer system due to a sanitary sewer system spill, operational failure, and/or infrastructure failure. Exfiltration of sewage is not considered to be a spill under the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR) if the exfiltrated sewage remains in the subsurface and does not reach a surface water of the State.

- **CATEGORY 1 SPILL:** A spill of any volume of sewage from or caused by a regulated sanitary sewer system that results in a discharge to:
 - a. A surface water, including a surface water body that contains no flow or volume of water; or
 - b. A drainage conveyance system that discharges to surface waters when the sewage is not fully captured and returned to the sanitary sewer system or disposed of properly.

Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility. A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water is a Category 1 spill.

- **CATEGORY 2 SPILL:** A spill of 1,000 gallons or greater, from or caused by a regulated sanitary sewer system that does not discharge to a surface water. A spill of 1,000 gallons or greater that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 2 spill.

According to State Water Resources Control Board personnel, it is assumed that a sewage spill of 1,000 gallons or more will discharge or has the potential to discharge to surface water.

- **CATEGORY 3 SPILL:** A spill of equal to or greater than 50 gallons and less than 1,000 gallons, from or caused by a regulated sanitary sewer system that does not discharge to a surface water. A spill of equal to or greater than 50 gallons and less than 1,000 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 3 spill.
- **CATEGORY 4 SPILL:** A spill of less than 50 gallons, from or caused by a regulated sanitary sewer system that does not discharge to a surface water. A spill of less than 50 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 4 spill.

SSS-BRW: Sanitary Sewer System – Backup Response Workbook

TRAINING: Training is in-house or external education and guidance needed that provides the knowledge, skills, and abilities to comply with the State Water Board Order No. WQ 2022-0103-DWQ.

UNAUTHORIZED WASTEWATER DISCHARGE REPORT: CIWQS report name

WASTE: Waste, as defined in Water Code section 13050(d), includes sewage and any and all other waste substances, liquid, solid, gaseous, or radioactive, associated with human habitation, or of human or animal origin, or from any producing, manufacturing, or processing operation, including waste placed within containers of whatever nature prior to, and for purposes of, disposal.

WATERS OF THE STATE: Waters of the State are surface waters or groundwater within boundaries of the state as defined in Water Code section 13050(e), in which the State and Regional Water Boards have authority to protect beneficial uses. Waters of the State include,

13 References

1. Sewer System Management Plan (SSMP), Coachella Valley Water District, December 1, 2019
2. Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, California State Water Board Order No. WQ 2022-0103-DWQ
3. Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, California State Water Resources Control Board Order No. 2006-0003
4. Water Quality Control Plan for the Colorado River Basin Region dated March 30, 2023
5. CVWD Code
6. CVWD Ordinance No. 1222
7. CVWD Sanitation Master Plan Update 2020
8. CVWD Sanitation Master Plan Collection System CIP
9. CVWD Development Design Manual
10. CVWD Standard and Specifications
11. CVWD Standards Drawings
12. CVWD Operation and Capital Improvement Budget
13. CVWD Local Hazard Mitigation
14. CVWD Sampling Plan
15. CVWD Solids Management Plan
16. CVWD FOG Management Plan

14 ATTACHMENTS

- Attachment A: Tracking of Plan Revisions/Updates and Audits Performed
- Attachment B: CLM Cleaning Preventative Maintenance Schedules

Coachella Valley Water District

SANITARY SEWER MANAGEMENT PLAN

Plan Revision and Audit Tracking Form



ATTACHMENT A: Plan Revision and Audit Tracking Form

TRACKING OF: PLAN REVISIONS/UPDATES AUDITS PERFORMED

- Sanitary Sewer Management Plan (SSMP)
- Sanitary Spill Emergency Response Plan (SERP)
- Sanitary Sewer Overflow Response Plan (SSORP)
- Sanitary Sewer Management Plant Audit (Audit Report)

DOCUMENT	Month	Year	DESCRIPTION
SSORP	November	2010	Initial Document
SSMP	December	2010	Initial Document
Audit Report	December	2012	Routine Audit
SSORP	December	2013	Revision
SSMP	February	2014	Revision
Audit Report	September	2014	Routine Audit
SSORP	December	2015	Revision
SSMP	December	2015	5-Year Revision
Audit Report	November	2016	Routine Audit
SSMP	February	2017	Revision
SSMP	November	2018	Routine Audit
SSMP/SSORP	December	2019	5-Year Revision
SSMP	December	2020	Routine Audit
Audit Report	May	2024	3-Year Audit
SSMP/SERP	May	2025	5-Year Update



ATTACHMENT B: Collections Line Maintenance Program

Preventative Maintenance Repeat Cleaning Schedules

CLM Schedule	LF Per Schedule	Frequency (per year)	Tota LF
Monthly	8808	12	105,700
Quarterly	39985	4	159,939
Quarterly Night Work	3769	4	15,077
Semi-Annual	37351	2	74,701
Semi-Monthly	5480	6	32,882
Total Estimated Linear Feet (LF) Per Year			38,8300
Total Estimated Miles Per Year			73.54

Table 29 CLM Monthly Asset Register

Schedule	Asset Number	GEO	Area	LF
MONTHLY	WW-PIPE-2183	040509-1	Avenida La Vista/Los Gatos	360
MONTHLY	WW-PIPE-5954	040509-1	Avenida La Vista/Los Gatos	363
MONTHLY	WW-PIPE-18139	040521-1	Corral Road	263
MONTHLY	WW-PIPE-18188	040521-1	Corral Road	263
MONTHLY	WW-PIPE-665	040521-1	Corral Road	265
MONTHLY	WW-PIPE-21818	040521-1	Corral Road	263
MONTHLY	WW-PIPE-15525	040521-1	Corral Road	348
MONTHLY	WW-PIPE-11389	040521-1	Corral Road	210
MONTHLY	WW-PIPE-16275	050512-4	Eleanora Road	121
MONTHLY	WW-PIPE-6058	050512-4	Eleanora Road	183
MONTHLY	WW-PIPE-15670	050512-4	Eleanora Road	298
MONTHLY	WW-PIPE-17205	050512-4	Eleanora Road	285
MONTHLY	WW-PIPE-988	050618-1	Avenida Las Palmas Siphon	203
MONTHLY	WW-PIPE-6327	050618-1	Avenida Las Palmas Siphon	216
MONTHLY	WW-PIPE-2471	050618-1	Avenida Las Palmas Siphon	204
MONTHLY	WW-PIPE-15862	050618-1	Avenida Las Palmas Siphon	215
MONTHLY	WW-PIPE-23831	050618-4	Florentina Drive Siphon	86
MONTHLY	WW-PIPE-18169	050618-4	Florentina Drive Siphon	109
MONTHLY	WW-PIPE-12405	050618-4	Florentina Drive Siphon	85
MONTHLY	WW-PIPE-18542	050618-4	Florentina Drive Siphon	112
MONTHLY	WW-PIPE-3044	050619-2	Desert Crossing Shopping Center	70
MONTHLY	WW-PIPE-4551	050619-2	Desert Crossing Shopping Center	131
MONTHLY	WW-PIPE-8716	050619-2	Desert Crossing Shopping Center	275
MONTHLY	WW-PIPE-19974	050619-2	Desert Crossing Shopping Center	198
MONTHLY	WW-PIPE-2687	050619-2	Desert Crossing Shopping Center	321
MONTHLY	WW-PIPE-7139	050619-2	Desert Crossing Shopping Center	155
MONTHLY	WW-PIPE-10256	050619-2	Desert Crossing Shopping Center	163
MONTHLY	WW-PIPE-794	050619-2	Desert Crossing Shopping Center	272
MONTHLY	WW-PIPE-14477	050619-2	Desert Crossing Shopping Center	135
MONTHLY	WW-PIPE-2755	050619-2	Desert Crossing Shopping Center	89
MONTHLY	WW-PIPE-171	050613-3	New York Avenue	237
MONTHLY	WW-PIPE-23299	050613-2	New York Avenue	206
MONTHLY	WW-PIPE-22297	050613-2	New York Avenue	214
MONTHLY	No Asset Number	050708-1	Jefferson Street Siphon	190
MONTHLY	No Asset Number	050708-1	Jefferson Street Siphon	190
MONTHLY	WW-PIPE-22629	050622-1	Camino De Paco	109
MONTHLY	WW-PIPE-9123	050622-2	Camino De Paco	242
MONTHLY	WW-PIPE-9675	050719-3	Vista Del Sol	138
MONTHLY	WW-PIPE-19114	050719-3	Vista Del Sol	251
MONTHLY	WW-PIPE-11865	050719-3	Vista Del Sol	336
MONTHLY	WW-PIPE-7217	050719-3	Vista Del Sol	282
MONTHLY	WW-PIPE-2958	050719-3	Vista Del Sol	150
Total Estimated CLM Footage				8808

Table 30 CLM Quarterly Asset Register

Schedule	Asset Number	GEO	Area	LF
QUARTERLY	WW-PIPE-20589	040528-3	Cathedral Canyon Estates	234
QUARTERLY	WW-PIPE-16689	040528-4	Cathedral Canyon Estates	62
QUARTERLY	WW-PIPE-6988	040528-4	Cathedral Canyon Estates	155
QUARTERLY	WW-PIPE-8434	040528-4	Cathedral Canyon Estates	268
QUARTERLY	WW-PIPE-17435	050621-4	Sprouts to Cook Street	330
QUARTERLY	WW-PIPE-9847	050621-4	Sprouts to Cook Street	318
QUARTERLY	WW-PIPE-15530	050621-4	Sprouts to Cook Street	331
QUARTERLY	WW-PIPE-8845	050623-1	Esmeralda	281
QUARTERLY	WW-PIPE-4007	050623-1	Esmeralda	88
QUARTERLY	WW-PIPE-2972	050623-1	Esmeralda	196
QUARTERLY	WW-PIPE-21037	050623-1	Esmeralda	395
QUARTERLY	WW-PIPE-10141	050623-1	Grand Champions	401
QUARTERLY	WW-PIPE-10736	050623-1	Grand Champions	283
QUARTERLY	WW-PIPE-9885	050623-2	Grand Champions	241
QUARTERLY	WW-PIPE-2522	050623-1	Grand Champions	316
QUARTERLY	WW-PIPE-23727	050719-3	Betty Barker	116
QUARTERLY	WW-PIPE-11115	050719-3	Vons Plaza	375
QUARTERLY	WW-PIPE-6494	050719-3	Vons Plaza	195
QUARTERLY	WW-PIPE-13041	050719-3	Vons Plaza	115
QUARTERLY	WW-PIPE-6377	050719-3	Vons Plaza	399
QUARTERLY	WW-PIPE-19072	050719-3	Vons Plaza	399
QUARTERLY	WW-PIPE-7676	050719-3	Point Happy	141
QUARTERLY	WW-PIPE-1627	050719-3	Point Happy	64
QUARTERLY	WW-PIPE-14686	050719-3	Point Happy	137
QUARTERLY	WW-PIPE-22322	050719-3	Point Happy	272
QUARTERLY	WW-PIPE-4356	050719-3	Point Happy	29
QUARTERLY	No Asset Number	050719-3	Point Happy	50
QUARTERLY	WW-PIPE-2592	050719-3	Point Happy	167
QUARTERLY	WW-PIPE-6653	050719-3	Point Happy	193
QUARTERLY	WW-PIPE-4568	050730-1	Kohls Shopping Center (South Side)	120
QUARTERLY	WW-PIPE-20448	050730-1	Kohls Shopping Center (South Side)	299
QUARTERLY	WW-PIPE-15400	050730-1	Kohls Shopping Center (South Side)	294
QUARTERLY	WW-PIPE-18228	050730-1	Kohls Shopping Center (South Side)	315
QUARTERLY	WW-PIPE-14996	050730-1	Kohls Shopping Center (South Side)	138
QUARTERLY	WW-PIPE-19604	050730-1	Kohls Shopping Center (South Side)	347
QUARTERLY	WW-PIPE-15591	050730-1	Kohls Shopping Center (South Side)	134
QUARTERLY	WW-PIPE-18724	050730-1	Kohls Shopping Center (South Side)	224
QUARTERLY	WW-PIPE-4080	050730-1	Kohls Shopping Center (South Side)	269
QUARTERLY	WW-PIPE-974	050730-1	Kohls Shopping Center (South Side)	199
QUARTERLY	WW-PIPE-10420	050730-1	Kohls Shopping Center (South Side)	194
QUARTERLY	WW-PIPE-5975	050730-1	Kohls Shopping Center (South Side)	74
QUARTERLY	WW-PIPE-4959	050730-1	Kohls Shopping Center (South Side)	108
QUARTERLY	WW-PIPE-19597	050730-1	Kohls Shopping Center (South Side)	56

QUARTERLY	WW-PIPE-22219	050729-3	Walmart Shopping Center	59
QUARTERLY	WW-PIPE-14086	050729-3	Walmart Shopping Center	400
QUARTERLY	WW-PIPE-13818	050729-3	Walmart Shopping Center	237
QUARTERLY	WW-PIPE-18011	050729-3	Walmart Shopping Center	273
QUARTERLY	WW-PIPE-13935	050729-3	Walmart Shopping Center	131
QUARTERLY	WW-PIPE-17452	050729-3	Walmart Shopping Center	377
QUARTERLY	WW-PIPE-14866	050729-3	Walmart Shopping Center	400
QUARTERLY	WW-PIPE-13723	050729-3	Walmart Shopping Center	203
QUARTERLY	WW-PIPE-4727	050729-3	Walmart Shopping Center	65
QUARTERLY	WW-PIPE-20985	050729-3	Walmart Shopping Center	131
QUARTERLY	WW-PIPE-3171	050729-3	Walmart Shopping Center	196
QUARTERLY	WW-PIPE-10355	050729-3	Walmart Shopping Center	258
QUARTERLY	WW-PIPE-20259	050729-3	Walmart Shopping Center	357
QUARTERLY	WW-PIPE-17626	050729-3	Walmart Shopping Center	255
QUARTERLY	WW-PIPE-16062	050729-4	Walmart Shopping Center	69
QUARTERLY	WW-PIPE-20939	050729-4	Walmart Shopping Center	174
QUARTERLY	WW-PIPE-10702	050636-3	Avenida Fernando	107
QUARTERLY	WW-PIPE-8948	050636-3	Avenida Fernando	226
QUARTERLY	WW-PIPE-11194	050636-3	Avenida Fernando	242
QUARTERLY	WW-PIPE-2162	050636-3	Avenida Fernando	237
QUARTERLY	WW-PIPE-23973	050636-3	Avenida Fernando	303
QUARTERLY	WW-PIPE-17027	050636-3	Avenida Mazatlan	279
QUARTERLY	WW-PIPE-4774	050636-3	Avenida Mazatlan	142
QUARTERLY	WW-PIPE-14598	050636-3	Avenida Mazatlan	147
QUARTERLY	WW-PIPE-2754	050636-3	Avenida Mazatlan	176
QUARTERLY	WW-PIPE-7435	050636-3	Avenida Mazatlan	130
QUARTERLY	WW-PIPE-21009	050636-3	Avenida Mazatlan	240
QUARTERLY	WW-PIPE-20804	050636-3	Avenida Mazatlan	158
QUARTERLY	WW-PIPE-4799	050636-3	Avenida Mazatlan	283
QUARTERLY	WW-PIPE-2673	050636-3	Avenida Mazatlan	190
QUARTERLY	WW-PIPE-19168	050636-3	Avenida Mazatlan	122
QUARTERLY	WW-PIPE-1420	050636-3	Avenida Mazatlan	155
QUARTERLY	WW-PIPE-18792	050636-3	Avenida Mazatlan	205
QUARTERLY	WW-PIPE-21019	050636-3	Avenida Mazatlan	202
QUARTERLY	WW-PIPE-10817	050636-3	Avenida Mazatlan	227
QUARTERLY	WW-PIPE-8570	050636-4	Avenida Mazatlan	383
QUARTERLY	WW-PIPE-11102	060601-1	Avenida Mazatlan	128
QUARTERLY	WW-PIPE-6044	060601-1	Avenida Mazatlan	303
QUARTERLY	WW-PIPE-24214	060601-1	Avenida Mazatlan	145
QUARTERLY	WW-PIPE-8612	060601-1	Avenida Mazatlan	225
QUARTERLY	WW-PIPE-12633	060601-1	Avenue 50	9
QUARTERLY	WW-PIPE-19414	060601-1	Avenue 50	52
QUARTERLY	WW-PIPE-20124	060601-1	Avenue 50	100
QUARTERLY	WW-PIPE-6913	060601-1	Avenue 50	148
QUARTERLY	WW-PIPE-1498	060601-1	Avenue 50	403

QUARTERLY	WW-PIPE-19750	060601-1	Avenue 50	400
QUARTERLY	WW-PIPE-452	060706-3	Calle Cadiz	329
QUARTERLY	WW-PIPE-14892	060706-3	Calle Cadiz	331
QUARTERLY	WW-PIPE-10497	060706-3	Desert Club Drive	249
QUARTERLY	WW-PIPE-884	060706-3	Desert Club Drive	393
QUARTERLY	WW-PIPE-9635	060706-3	Desert Club Drive	277
QUARTERLY	WW-PIPE-8737	060706-3	Desert Club Drive	394
QUARTERLY	WW-PIPE-10022	060706-3	Desert Club Drive	135
QUARTERLY	WW-PIPE-19663	050620-3	Carl's Jr. to Sage Lane	102
QUARTERLY	WW-PIPE-16998	050620-3	Carl's Jr. to Sage Lane	239
QUARTERLY	WW-PIPE-6986	050620-3	Carl's Jr. to Sage Lane	375
QUARTERLY	WW-PIPE-2082	050620-3	Carl's Jr. to Sage Lane	371
QUARTERLY	WW-PIPE-6697	050620-3	Carl's Jr. to Sage Lane	337
QUARTERLY	WW-PIPE-14074	050620-3	Carl's Jr. to Sage Lane	323
QUARTERLY	WW-PIPE-1183	050620-3	Carl's Jr. to Sage Lane	107
QUARTERLY	WW-PIPE-6370	050620-2	San Anselmo Avenue	322
QUARTERLY	WW-PIPE-8352	050620-2	San Anselmo Avenue	286
QUARTERLY	WW-PIPE-18076	050620-2	San Anselmo Avenue	282
QUARTERLY	WW-PIPE-2312	050620-2	San Anselmo Avenue	287
QUARTERLY	WW-PIPE-22328	050620-2	San Anselmo Avenue	151
QUARTERLY	WW-PIPE-23563	050613-1	Albertson Center Avenue 42	332
QUARTERLY	WW-PIPE-9113	050613-1	Albertson Center Avenue 42	366
QUARTERLY	WW-PIPE-7667	050613-1	Albertson Center Avenue 42	377
QUARTERLY	WW-PIPE-2893	050613-1	Albertson Center Avenue 42	74
QUARTERLY	WW-PIPE-18519	050613-1	Albertson Center Avenue 42	159
QUARTERLY	WW-PIPE-6296	040536-1	Gelson's Center	214
QUARTERLY	WW-PIPE-23839	040536-1	Gelson's Center	53
QUARTERLY	WW-PIPE-4337	040536-1	Gelson's Center	192
QUARTERLY	WW-PIPE-13795	040536-1	Gelson's Center	91
QUARTERLY	WW-PIPE-21875	040536-1	Gelson's Center	24
QUARTERLY	WW-PIPE-8067	040536-2	Gelson's Center	129
QUARTERLY	WW-PIPE-14839	040534-3	Motel 6 Area	209
QUARTERLY	WW-PIPE-22691	040534-4	Motel 6 Area	221
QUARTERLY	WW-PIPE-10951	040534-4	Motel 6 Area	75
QUARTERLY	WW-PIPE-8995	040534-4	Motel 6 Area	387
QUARTERLY	WW-PIPE-16503	040534-4	Motel 6 Area	404
QUARTERLY	WW-PIPE-4285	040534-4	Motel 6 Area	395
QUARTERLY	WW-PIPE-1809	040534-4	Motel 6 Area	185
QUARTERLY	WW-PIPE-20039	040534-4	Jensen's	80
QUARTERLY	WW-PIPE-19531	050503-1	Jensen's	161
QUARTERLY	WW-PIPE-12955	050503-1	Jensen's	304
QUARTERLY	WW-PIPE-8216	050503-1	Jensen's	320
QUARTERLY	WW-PIPE-12337	050503-1	Jensen's	205
QUARTERLY	WW-PIPE-5675	050503-1	Jensen's	146
QUARTERLY	WW-PIPE-23005	050503-1	Jensen's	364

QUARTERLY	WW-PIPE-12585	050503-1	Desert Braemar	261
QUARTERLY	WW-PIPE-6647	050503-1	Desert Braemar	225
QUARTERLY	WW-PIPE-22278	050503-1	Desert Braemar	366
QUARTERLY	WW-PIPE-7651	050503-1	Desert Braemar	253
QUARTERLY	WW-PIPE-22932	050503-1	Desert Braemar	282
QUARTERLY	WW-PIPE-11807	050503-1	Desert Braemar	269
QUARTERLY	WW-PIPE-8968	050503-1	Desert Braemar	290
QUARTERLY	WW-PIPE-20914	050503-1	Desert Braemar	53
QUARTERLY	WW-PIPE-24105	050503-1	Desert Braemar	162
QUARTERLY	WW-PIPE-7711	050503-1	Desert Braemar	374
QUARTERLY	WW-PIPE-18804	050503-1	Desert Braemar	247
QUARTERLY	WW-PIPE-9651	050503-1	RM Mobile Home	247
QUARTERLY	WW-PIPE-10944	050502-2	RM Mobile Home	289
QUARTERLY	WW-PIPE-18221	050502-2	RM Mobile Home	72
QUARTERLY	WW-PIPE-15695	050502-2	RM Mobile Home	49
QUARTERLY	WW-PIPE-15227	050502-2	RM Mobile Home	46
QUARTERLY	WW-PIPE-24105	050503-1	Bananas	162
QUARTERLY	WW-PIPE-20914	050503-1	Bananas	53
QUARTERLY	WW-PIPE-15762	050502-2	RM Nursery to Mirage Cove	239
QUARTERLY	WW-PIPE-14708	050502-2	RM Nursery to Mirage Cove	305
QUARTERLY	WW-PIPE-11751	050502-2	RM Nursery to Mirage Cove	321
QUARTERLY	WW-PIPE-20634	050502-2	RM Nursery to Mirage Cove	310
QUARTERLY	WW-PIPE-5318	050502-2	RM Nursery to Mirage Cove	320
QUARTERLY	WW-PIPE-21403	050502-3	Las Casuelas Restaurant	171
QUARTERLY	WW-PIPE-16560	050502-3	Las Casuelas Restaurant	213
QUARTERLY	WW-PIPE-1696	050502-3	Las Casuelas Restaurant	239
QUARTERLY	WW-PIPE-8858	050502-3	Las Casuelas Restaurant	391
QUARTERLY	WW-PIPE-495	050513-1	Wally's Desert Turtle Area	285
QUARTERLY	WW-PIPE-21948	050513-1	Wally's Desert Turtle Area	68
QUARTERLY	WW-PIPE-10071	050513-1	The River Rancho Mirage	74
QUARTERLY	WW-PIPE-12361	050513-1	The River Rancho Mirage	288
QUARTERLY	WW-PIPE-8260	050513-1	Rancho Palmeras Drive	157
QUARTERLY	WW-PIPE-4684	050513-1	Rancho Palmeras Drive	315
QUARTERLY	WW-PIPE-11266	050513-1	Rancho Palmeras Drive	373
QUARTERLY	WW-PIPE-18184	050513-1	Post Office to Bob Hope	272
QUARTERLY	WW-PIPE-13772	050513-1	Post Office to Bob Hope	21
QUARTERLY	WW-PIPE-9902	050513-1	Post Office to Bob Hope	287
QUARTERLY	WW-PIPE-4765	050618-4	Torremolinos Drive	67
QUARTERLY	WW-PIPE-16547	050618-4	Torremolinos Drive	341
QUARTERLY	WW-PIPE-12855	050618-1	Juan Carlos Drive	40
QUARTERLY	WW-PIPE-20584	050607-4	Juan Carlos Drive	73
QUARTERLY	WW-PIPE-16160	040620-1	Algoquin	105
QUARTERLY	WW-PIPE-9619	040620-1	Algoquin	126
QUARTERLY	WW-PIPE-19462	040620-3	San Lucas	262
QUARTERLY	WW-PIPE-4220	040620-3	San Lucas	91

QUARTERLY	WW-PIPE-10561	040619-4	Costco	199
QUARTERLY	WW-PIPE-20736	040619-4	Costco	216
QUARTERLY	WW-PIPE-23908	040619-4	Costco	55
QUARTERLY	WW-PIPE-12949	040619-4	Costco	79
QUARTERLY	WW-PIPE-5761	040619-4	Costco	247
Total Estimated CLM Footage				39985

Table 31 CLM Quarterly Night Work Asset Register

Schedule	Asset Number	GEO	Area	LF
QRT NIGHT	WW-PIPE-1177	040521-3	Cathedral Canyon	365
QRT NIGHT	WW-PIPE-23918	040528-1	Cathedral Canyon	362
QRT NIGHT	WW-PIPE-4003	040521-1	Corral Road	231
QRT NIGHT	WW-PIPE-21004	040525-4	Bob Hope Drive/ Gerald Ford	306
QRT NIGHT	WW-PIPE-10099	040536-1	Bob Hope Drive/ Gerald Ford	47
QRT NIGHT	WW-PIPE-11067	040536-1	Bob Hope Drive/ Gerald Ford	327
QRT NIGHT	WW-PIPE-10407	050619-1	Monterey Avenue/ Fred Waring Drive	341
QRT NIGHT	WW-PIPE-7134	050620-2	San Anselmo Avenue/ Fred Waring Drive	123
QRT NIGHT	WW-PIPE-7034	050620-2	San Anselmo Avenue/ Fred Waring Drive	29
QRT NIGHT	WW-PIPE-14497	050604-4	Cook Street/ Country Club Drive	109
QRT NIGHT	WW-PIPE-21130	050620-1	Alessandro Drive/ Portola Avenue	279
QRT NIGHT	WW-PIPE-4956	050621-2	Alessandro Drive/ Portola Avenue	80
QRT NIGHT	WW-PIPE-4119	050613-3	Fred Waring Drive/ Tennessee Avenue	361
QRT NIGHT	WW-PIPE-5676	050719-3	Cliffhouse, La Quinta	243
QRT NIGHT	WW-PIPE-20392	050719-3	Cliffhouse, La Quinta	159
QRT NIGHT	WW-PIPE-10022	060706-3	Desert Club Drive	135
QRT NIGHT	WW-PIPE-24097	060706-2	Avenida Bermudas	273
Total Estimated CLM Footage				3769

Table 32 CLM Semi-Monthly Asset Register

Schedule	Asset Number	GEO	Area	LF
SEMIMONTHLY	WW-PIPE-13852	060717-1	Riviera - PGA	386
SEMIMONTHLY	WW-PIPE-10289	060717-1	Riviera - PGA	388
SEMIMONTHLY	WW-PIPE-5292	060717-1	Firestone - PGA	377
SEMIMONTHLY	WW-PIPE-22547	060717-1	Firestone - PGA	367
SEMIMONTHLY	WW-PIPE-7770	060721-2	Cedar Crest - PGA	343
SEMIMONTHLY	WW-PIPE-5113	060721-2	Cedar Crest - PGA	315
SEMIMONTHLY	WW-PIPE-12991	060721-2	Cedar Crest - PGA	338
SEMIMONTHLY	No Asset #	060601-2	Vista Bonita, La Quinta	144
SEMIMONTHLY	No Asset #	060601-2	Vista Bonita, La Quinta	172
SEMIMONTHLY	WW-PIPE-22066	060601-2	Vista Bonita, La Quinta	261
SEMIMONTHLY	WW-PIPE-11923	060721-3	Merion - PGA	391
SEMIMONTHLY	WW-PIPE-12412	060721-3	Merion - PGA	380
SEMIMONTHLY	WW-PIPE-3581	060721-3	Merion - PGA	381
SEMIMONTHLY	WW-PIPE-10910	060721-3	Merion - PGA	380
SEMIMONTHLY	WW-PIPE-5634	060721-3	Merion - PGA	380
SEMIMONTHLY	WW-PIPE-17850	060716-4	Winged Foot	99
SEMIMONTHLY	WW-PIPE-8802	060716-4	Winged Foot	378
Total Estimated CLM Footage				5480

Table 33 CLM Semi-Annual Asset Register

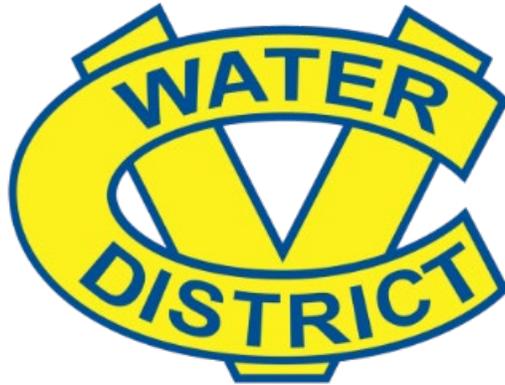
Schedule	Asset Number	GEO	Area	LF
SEMIANNUALY	WW-PIPE-22192	040618-3	Truck Wash to Varner	400
SEMIANNUALY	WW-PIPE-20095	040618-3	Truck Wash to Varner	224
SEMIANNUALY	WW-PIPE-4898	040618-3	Varner	296
SEMIANNUALY	WW-PIPE-11944	040618-3	Varner	477
SEMIANNUALY	WW-PIPE-9764	040618-3	Varner	425
SEMIANNUALY	WW-PIPE-23892	040619-2	Varner	402
SEMIANNUALY	WW-PIPE-22992	040619-2	Varner	425
SEMIANNUALY	WW-PIPE-14239	040516-4	Date Palm Plaza	30
SEMIANNUALY	WW-PIPE-18863	040516-4	Date Palm Plaza	272
SEMIANNUALY	WW-PIPE-20512	040516-4	Date Palm Plaza	351
SEMIANNUALY	WW-PIPE-6183	040516-4	Date Palm Plaza	132
SEMIANNUALY	WW-PIPE-12555	040516-4	Date Palm Plaza	316
SEMIANNUALY	WW-PIPE-21653	040516-4	Date Palm Plaza	352
SEMIANNUALY	WW-PIPE-24192	040528-1	Food 4 Less Center Back	95
SEMIANNUALY	WW-PIPE-11174	040528-1	Food 4 Less Center Back	394
SEMIANNUALY	WW-PIPE-351	040528-1	Food 4 Less Center Back	306
SEMIANNUALY	WW-PIPE-14207	040528-1	Food 4 Less Center Back	339
SEMIANNUALY	WW-PIPE-18387	040528-1	Food 4 Less Center Back	61
SEMIANNUALY	WW-PIPE-12016	040528-1	Food 4 Less Center Front	46
SEMIANNUALY	WW-PIPE-1490	040528-1	Food 4 Less Center Front	400
SEMIANNUALY	WW-PIPE-569	040528-1	Food 4 Less Center Front	387
SEMIANNUALY	WW-PIPE-4631	040528-1	Food 4 Less Center Front	232
SEMIANNUALY	WW-PIPE-87	040528-4	Mission Hills Plaza	23
SEMIANNUALY	WW-PIPE-11001	040528-4	Mission Hills Plaza	230
SEMIANNUALY	WW-PIPE-2430	040528-4	Mission Hills Plaza	236
SEMIANNUALY	WW-PIPE-14520	050502-2	Mirage Cove to Peterson	159
SEMIANNUALY	WW-PIPE-22131	050502-2	Mirage Cove to Peterson	72
SEMIANNUALY	WW-PIPE-18580	050502-2	Mirage Cove to Peterson	226
SEMIANNUALY	WW-PIPE-16963	050502-2	Mirage Cove to Peterson	186
SEMIANNUALY	WW-PIPE-11515	050502-2	Mirage Cove to Peterson	353
SEMIANNUALY	WW-PIPE-5318	050502-2	Mirage Cove to Peterson	320
SEMIANNUALY	WW-PIPE-7938	050502-2	Peterson Rd	349
SEMIANNUALY	WW-PIPE-7397	050502-3	Peterson Rd	158
SEMIANNUALY	WW-PIPE-7885	050502-3	Peterson Rd	169
SEMIANNUALY	WW-PIPE-14771	050502-3	Desert Cove Avenue	337
SEMIANNUALY	WW-PIPE-11203	050502-3	Desert Cove Avenue	229
SEMIANNUALY	WW-PIPE-5830	050502-3	Desert Cove Avenue	111
SEMIANNUALY	WW-PIPE-8799	050502-3	Desert Cove Avenue	332

SEMIANNUALY	WW-PIPE-5519	050512-4	San Jacinto	323
SEMIANNUALY	WW-PIPE-7627	050513-1	San Jacinto	139
SEMIANNUALY	WW-PIPE-19223	050513-1	San Jacinto	114
SEMIANNUALY	WW-PIPE-9504	050618-2	Rancho Las Palmas	65
SEMIANNUALY	WW-PIPE-153	050618-2	Rancho Las Palmas	218
SEMIANNUALY	WW-PIPE-6962	050618-2	Rancho Las Palmas	71
SEMIANNUALY	WW-PIPE-6981	050618-2	Rancho Las Palmas	263
SEMIANNUALY	WW-PIPE-11167	050618-2	Rancho Las Palmas	291
SEMIANNUALY	WW-PIPE-23247	050618-2	Rancho Las Palmas	400
SEMIANNUALY	WW-PIPE-17093	050618-2	Rancho Las Palmas	103
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SEMIANNUALY	WW-PIPE-9988	050619-1	Painters Path to Palms to Pines Plaza	229
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SEMIANNUALY	WW-PIPE-23129	050619-1	Westfield Mall	119
SEMIANNUALY	WW-PIPE-13647	050619-1	Westfield Mall	55
SEMIANNUALY	WW-PIPE-17111	050619-1	Westfield Mall	312
SEMIANNUALY	WW-PIPE-6543	050619-1	Westfield Mall	321
SEMIANNUALY	WW-PIPE-19372	050619-1	Westfield Mall	335
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SEMIANNUALY	WW-PIPE-14639	050619-4	Palms to Pine Plaza West	45
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SEMIANNUALY	WW-PIPE-7267	050619-4	Rite-Aid Center	33
SEMIANNUALY	WW-PIPE-11416	050620-3	El Paseo Square	247
SEMIANNUALY	WW-PIPE-6087	050620-3	El Paseo Square	250
SEMIANNUALY	WW-PIPE-1375	050620-4	Larkspur Lane to El Paseo	320
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SEMIANNUALY	WW-PIPE-14744	050620-2	Alley Castelli's	404
SEMIANNUALY	WW-PIPE-7556	050620-2	Alley Castelli's	398
SEMIANNUALY	WW-PIPE-6029	050620-2	Alley Castelli's	395
SEMIANNUALY	No Asset Number	050620-1	Allesandro Drive	128
SEMIANNUALY	WW-PIPE-6127	050620-1	Allesandro Drive	409
SEMIANNUALY	WW-PIPE-15831	050620-1	Allesandro Drive	396
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SEMIANNUALY	WW-PIPE-14428	050620-1	Allesandro Drive	400
SEMIANNUALY	WW-PIPE-8139	050618-3	Waring Plaza P.D	392
SEMIANNUALY	WW-PIPE-10067	050618-3	Waring Plaza P.D	34
SEMIANNUALY	WW-PIPE-5915	050618-3	Waring Plaza P.D	343
SEMIANNUALY	WW-PIPE-13106	050618-3	Waring Plaza P.D	85
SEMIANNUALY	WW-PIPE-3231	050618-3	Waring Plaza P.D	220

SEMIANNUALY	WW-PIPE-15166	050618-3	Waring Plaza P.D	43
SEMIANNUALY	No Asset Number	050719-4	Kohls Center North Side	69
SEMIANNUALY	WW-PIPE-13817	050719-4	Kohls Center North Side	86
SEMIANNUALY	WW-PIPE-4919	050719-4	Kohls Center North Side	91
SEMIANNUALY	WW-PIPE-13619	050719-4	Kohls Center North Side	334
SEMIANNUALY	WW-PIPE-13296	050719-4	Kohls Center North Side	333
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SEMIANNUALY	WW-PIPE-6161	050730-1	Kohls Center North Side	336
SEMIANNUALY	WW-PIPE-21411	050730-1	Kohls Center North Side	191
SEMIANNUALY	WW-PIPE-492	050730-1	Kohls Center North Side	190
SEMIANNUALY	WW-PIPE-15092	050730-1	Kohls Center North Side	80
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SEMIANNUALY	WW-PIPE-20138	070908-3	Mecca 2nd	369
SEMIANNUALY	WW-PIPE-9528	070908-3	Mecca 3rd	403
SEMIANNUALY	WW-PIPE-11594	070908-3	Mecca 3rd	399
SEMIANNUALY	WW-PIPE-20414	070908-3	Mecca 3rd	352
SEMIANNUALY	WW-PIPE-13620	070908-3	Mecca 4th	400
SEMIANNUALY	WW-PIPE-3411	070908-3	Mecca 4th	401
SEMIANNUALY	WW-PIPE-271	070908-3	Mecca 4th	393
SEMIANNUALY	WW-PIPE-599	070908-3	Mecca 5th	402
SEMIANNUALY	WW-PIPE-21288	070908-3	Mecca 5th	399
SEMIANNUALY	WW-PIPE-2442	070908-3	Mecca 5th	398
SEMIANNUALY	WW-PIPE-4715	070908-3	Mecca 6th	262
SEMIANNUALY	WW-PIPE-20447	070908-3	Mecca 6th	397
SEMIANNUALY	WW-PIPE-9708	070908-3	Mecca 6th	402
Total Estimated CLM Footage				37351

Coachella Valley Water District



Sewer System Management Plan Part B: Spill Emergency Response Plan



May 2, 2025

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1 Authority

This Sewer Emergency Response Plan (SERP) is written in accordance with the State Water Board Order No. WQ 2022-0103-DWQ.

Potential discharge events within the sanitary system pose a risk necessitating regulatory oversight by state authorities. This oversight ensures that any such event is addressed through appropriate response protocols and mandatory reporting procedures. Comprehensive planning initiatives, coupled with ongoing personnel training programs, equip employees to execute efficient and effective spill response actions.

2 Introduction

Coachella Valley Water District (CVWD) is a public agency special district governed by a five-member board of directors. CVWD provides domestic water, wastewater (sanitation), non-potable water (recycled water and Colorado River water), irrigation/drainage, stormwater and groundwater management services to a population of approximately 265,000 throughout the Coachella Valley in Southern California. CVWD was formed in 1918 under the state water code provisions of the County Water District Act (Water Code § 30000 et seq.). A governing board of five members is elected from five general directorial divisions for terms of four years each.

CVWD boundaries encompass an area of nearly 1,000 square miles in the Coachella Valley. A majority of CVWD's service territory is in Riverside County, however CVWD boundaries also extend into Imperial and San Diego Counties. Communities served include Cathedral City, Indian Wells, La Quinta, Mecca, North Shore, Palm Desert, Rancho Mirage, Thermal and Thousand Palms in Riverside County as well as the communities of Bombay Beach, Desert Shores, Hot Mineral Spa, Salton Sea Beach, and Salton City in Imperial County. The Coachella Valley Water District Sanitation Boundary map is available online. CVWD owns and operates wastewater treatment and disposal systems which provide sewerage services to private and commercial customers in the Coachella Valley from Cathedral City at the Northwest to Bombay Beach at the Southeast.

The CVWD collection system includes a combination of gravity and force main piping and lift stations, which convey wastewater flows to five water treatment facilities known as Water Reclamation Plants (WRP) 1, 2, 4, 7, and 10. The address for each WRP is available in Section 18 Water Reclamation Plants.

3 Purpose

The Spill Emergency Response Plan (SERP) is established to ensure compliance with the California State Water Resources Control Board (SWRCB) Order WQ No. 2022-2013-DWQ¹, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, and its Order No. WQ-2013-0058-EXEC², Monitoring and Reporting Program. These Board Orders mandate that each "Enrollee" develop and implement a Sewer System Management Plan (SSMP), of which the SERP, formerly the Sanitary Sewer Overflow Response Plan (SSORP), is a component incorporated by reference.

The SERP delineates comprehensive guidance for CVWD Sanitation Section and Environmental Personnel in responding to sanitary collection system and treatment plant spills, lift station failures, or force main breaks. This guidance encompasses the identification of individual responsibilities, notification protocols, field operational procedures, spill monitoring, record-keeping, and reporting mandates. All personnel involved in responding to sanitary sewer spills within the wastewater sanitary system service area are required to possess a thorough understanding of these procedures and their respective duties.

All employees are obligated to report any spills originating from CVWD-owned sewer mains and publicly owned laterals upon discovery. Furthermore, they are responsible for taking immediate and appropriate action to secure the spill area, promptly notify the relevant regulatory agencies, mitigate the cause of the spill, and ensure the timely and thorough cleanup of the affected area to minimize public health risks and environmental impact. CVWD's operational objective is to achieve the most expeditious response to sewer system spills following notification. The recommendations of the SERP are guidelines not meant to replace CVWD's existing protocols CVWD Emergency Response Plan³ or departmental SOPs, but rather to enhance existing policies and procedures to cope with an emergency incident pertaining to sewer spills and in efforts to remain compliant with regulatory requirements.

Note: Comprehensive details pertaining to hazardous materials spill response and reporting is addressed in the "Industrial Hazardous Materials Emergency Business Plans". A plan is required for all locations where hazardous materials are stored; a copy of the plan is always on location.

¹ SWRCB Certified Sanitary Sewer Systems General Order No. WQ 2022-0103-DWQ
https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo_2022-0103-dwq.pdf

² SWRCB Amending Monitoring and Reporting Program Order No. WQ 2013-0058-EXEC
https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2013/wqo2013_0058_exec.pdf

³ The Coachella Valley Water District's (CVWD) Emergency Response Plan (ERP) outlines the organization's strategic approach to significant emergencies arising from natural disasters and man-made hazards. This plan specifically addresses potential large-scale events necessitating unique or extraordinary emergency responses, and therefore excludes routine, day-to-day incidents such as minor service interruptions, which are managed through established operational procedures.

4 Scope

The procedures outlined in this document are applicable to all CVWD Sanitation Section personnel, management, and any other individuals designated with spill response and reporting responsibilities. Furthermore, these directives pertain to the entirety of the CVWD sanitation system as defined within this plan.

The Sewer System Management Plan (SSMP) shall incorporate this Spill Emergency Response Plan (SERP) to facilitate the timely detection and effective response to sanitary sewer overflows (SSOs). The SERP will outline procedures aimed at minimizing spill volumes and ensuring the thorough collection of data to inform preventative measures and mitigate future occurrences. These protocols will prioritize the protection of public health and the environment. CVWD Sanitation Operations and Maintenance (O&M) personnel must maintain a state of readiness to immediately address any spills originating from any CVWD sanitary systems, with the objective of minimizing adverse impacts on water quality and public nuisance.

The Spill Emergency Response Plan (SERP) shall incorporate the following procedures:

Timely Notification

Establish protocols for the prompt notification of primary responders, relevant local authorities, and pertinent regulatory agencies in the event of a spill.

Notification of Affected Entities

Define procedures for notifying potentially impacted entities, such as health agencies and water suppliers, regarding spills that pose a potential threat to public health or could affect State waters.

Regulatory Compliance

Ensure adherence to the notification, monitoring, and reporting mandates stipulated in State Water Board Order No. WQ 2022-0103-DWQ, applicable state laws and regulations, and relevant Regional Water Board Orders.

Personnel and Training:

Outline requirements for ensuring that designated staff and contractors are appropriately trained and capable of effectively implementing the SERP.

Emergency Response Operations:

Detail procedures for managing emergency system operations, traffic control, and other essential response activities during a spill event.

Spill Containment and Discharge Prevention:

Establish measures for the effective containment of spills and the prevention or minimization of discharges to State waters or any drainage conveyance system.

Impact Mitigation and Remediation:

Define strategies to minimize and remediate public health impacts and adverse effects on the beneficial uses of State waters.

Sewage Removal:

Specify procedures for the removal of sewage from the drainage conveyance system in the event of a spill.

Site Cleanup:

Outline protocols for cleaning the spill area and drainage conveyance system in a manner that avoids unintended impacts on the beneficial uses of receiving waters.

Expedited Response:

Incorporate the use of appropriate technologies, practices, equipment, and interagency coordination to expedite spill containment and recovery efforts.

Interagency Coordination:

Establish pre-planned coordination and collaboration protocols with storm drain agencies and other utility agencies/departments for implementation prior to, during, and after a spill event.

Post-Spill Assessment:

Define procedures for conducting thorough post-spill assessments of spill response activities to identify areas for improvement.

Documentation and Reporting:

Ensure comprehensive documentation and reporting of spill events in accordance with the requirements of State Water Board Order No. WQ 2022-0103-DWQ.

Plan Review and Update:

Mandate an annual review and assessment of the SERP's effectiveness, with provisions for necessary updates to maintain its relevance and efficacy.

5 Spill Response Objectives

Coachella Valley Water District Staff will:

- Work safely;
- Properly document each spill event in a separate file including photos and/or video where applicable;
- Collect information for prevention of future spills;
- Minimize public contact with the spilled wastewater;
- Mitigate the impact of the spill;
- Meet the regulatory reporting requirements;
- Evaluate the causes of failure related to spills;
- Perform post-spill response evaluation for adherence to procedures and effectiveness of response; and
- Revise response procedures, modify maintenance practices or provide additional training based on the results from the debrief and failure analysis of spills. Sanitary

5.1 Spill Response Workbook

CVWD staff can consult the Spill Response Workbook (ATTACHMENT B) for comprehensive procedural details, additional support, and resources pertaining to the information outlined in this Spill Emergency Response Plan (SERP), Part B of this Sewer System Management Plan.

5.2 CVWD General Information and Hours of Operation

Office Hours 8:00am-5:00pm M – F	Payment Address P.O. Box 5000 Coachella, CA 92236	Steve Robbins Administration Building 75515 Hovley Lane East Palm Desert, CA 92211
Main Phone Numbers Phone (760) 398-2651 Fax (760) 398-3711	Mailing Address P.O. Box 1058 Coachella, CA 92236	Critical Support Services Building 75519 Hovley Lane East Palm Desert, CA 92211
Customer Service Phone (760) 391-9600 Fax (760) 398-3190	Palm Desert Operations Building 75525 Hovley Lane East Palm Desert, CA 92211	Coachella Office 51501 Tyler Street Coachella, CA

Table 1 General CVWD Information

5.2.1 Hours of Operation

Collection Systems Maintenance

- 6:00 am to 2:30 pm, Monday through Friday except holidays.

Mechanical Shop

- 6:00 am to 3:30 pm, Monday through Friday except holidays.

Water Reclamation Plant 4 and 7

- 6:00 am to 3:30 pm, 7 days a week, including holidays.

Water Reclamation Plant 10

- 24-hour staffing, including holidays.

Non-Potable

- 6:00 am to 2:30 pm, Monday through Friday except holidays.

5.2.2 Off-Normal Working Hours

CVWD Control Operations staff can be contacted during off-normal hours of operation to dispatch emergency standby personnel via Everbridge or at the following Control Emergency Lines:

- (760) 391-9606
- (760) 391-9630

6 Spill Response Organization

All CVWD personnel are designated as essential employees, necessitating their availability for duty during both routine operations and emergency situations. Therefore, all CVWD employees are expected to report for duty in the event of an emergency and are required to make a reasonable effort to reach their assigned work location. To facilitate unimpeded transit through potential law enforcement checkpoints, all employees must always maintain possession of their CVWD employee identification badge and present it to government officials upon request.

CVWD recognizes that physical impediments, such as distance or damage-induced road closures, may preclude some employees from safely reaching their duty stations. Employees are required to exercise sound judgment in evaluating their ability to report, with personal safety serving as the foremost consideration.

During emergency events, operational requirements may necessitate the reassignment of personnel by CVWD supervisors to address critical operational needs. Employees unable to report for duty during an emergency are required to promptly notify their direct supervisor, manager, or Control to communicate their inability to report. This timely notification is essential for CVWD management to accurately assess employee work status and effectively develop and maintain emergency staffing plans.

For additional emergency requirements pertaining to emergency response procedures not outlined in the SERP, staff shall refer to the CVWD Emergency Response Plan, managed by Emergency Response Administrator.

6.1 Disaster Service Workers

All CVWD employees are designated Disaster Service Workers, obligated to serve as directed by the General Manager or their authorized representative. During emergency events, assigned roles and responsibilities may be subject to change based on the specific nature and demands of the situation. This designation is in accordance with California Government Code Sections 3100-3109, which state in part:

“It is hereby declared that the protection of the health and safety and preservation of the lives and property of the people of the state from the effects of natural, manmade, or war-caused emergencies which result in conditions of disaster or extreme peril to life, property, and resources is of paramount state importance...in protection of its citizens and resources, all public employees are hereby declared to be disaster service workers...”

All disaster service workers shall, before they enter upon the duties of their employment, take and subscribe to the oath or affirmation...”

6.2 Incident Commander

The Incident Commander (IC) holds ultimate responsibility for on-site spill management, providing strategic directions to response personnel. The IC ensures a manageable span of control is maintained and that all critical spill response functions, equipment deployment, and tool maintenance receive appropriate attention and resources.

6.3 Emergency Coordinator

The Emergency Coordinator (EC) holds responsibility for developing strategic approaches and managing programs related to emergency preparedness and natural hazard response. This role is typically assigned to the Legally Responsible Official (LRO) or a designated Data Submitter (DS). The LRO possesses the authority to electronically sign and certify spill reports submitted through the California Integrated Water Quality System (CIWQS). The DS, appointed by the LRO, is accountable for the accurate data entry of spill-related information into the online CIWQS Sanitary Sewer System Database.

Further detailed information regarding the responsibilities and requirements of the Legally Responsible Official and the Data Submitter can be found in Part A of the Sewer System Management Plan (SSMP).

This includes the following key responsibilities:

- Potentially assuming the role of Incident Commander when necessary.
- Serving as a liaison with emergency responders and internal departments.
- Coordinating with public and governmental agencies to identify resources and formulate immediate response strategies for potential emergencies.
- Assessing the impact of hazards and developing comprehensive plans to minimize or mitigate emerging risks.
- The EC may also function as a Legally Responsible Official (LRO) and/or Data Submitter (refer to Sections 6.5-6.6).
- This role is also referred to as Authorized Staff (refer to Section 6.4, Table 2 for contact information).

6.4 Authorized Staff List

Table 2 CVWD Authorized Staff Contact Information

Name	Title/Position	Ext	Email	Org
Nahúm Padilla	Supervisor, Collection Systems	3608	NPadilla@cvwd.org	DS
Grant Roper	Crew Chief, Collections	3444	GRoper@cvwd.org	DS
Felix Bañuelos	Crew Chief, Collections	3627	FBanuelos@cvwd.org	DS
Angel Calderon	Crew Chief, Collections	3629	ACalderon@cvwd.org	DS
Andrew Calhoun	Supervisor, Mechanical	3659	ACalhoun@cvwd.org	DS
Rogelio Salcedo	Crew Chief, Mechanical	3661	RSalcedo@cvwd.org	DS
Mark Quiroz	Wastewater Plant Manager IV	2632	MQuiroz@cvwd.org	DS
Larry Cobb	Wastewater Plant Manager IV	8700	LCobb@cvwd.org	DS
Cristian Castro	Wastewater Plant Manager V,	3667	CCastro@cvwd.org	DS
Vanessa Duong	Sr. Environ. Comp Specialist	2782	VDuong@cvwd.org	DS
Ivan Monroy	Source Control Coordinator	3710	IMonroy@cvwd.org	DS
Luis Torner	Wastewater Ops Manager	3668	LTorner@cvwd.org	LRO
Thomas West	Asst. Dir. of Sanitation O&M	3605	TWest@cvwd.org	LRO
Joanne Le	Dir. of Environmental Services	2286	JLe@cvwd.org	LRO
Armando Rodriguez	Engineering Manager	2365	ARodriguez@cvwd.org	LRO
Dan Charlton	Assistant General Manager	2316	DCharlton@cvwd.org	LRO
Lorraine Garcia	Public Information Officer	2549	Lorraine.Garcia@cvwd.org	-
Greg Papazian	Emergency Management	2799	GPapazian@cvwd.org	-
Nashchely Espinoza	Safety Officer	3427	Nashchely.Espinoza@cvwd.org	-
Blanca Garcia	Claims – Risk Management	2243	BGarcia@cvwd.org	-

Data Submitter (DS), Legally Responsible Official (LRO)

6.5 Organizational Responsibilities

First Responder

- Assigned Standby Crew
- Service Workers (Field Staff)/Operators
- Crew Chiefs/Assistant Supervisors/Program Coordinators

Incident Commander

- Senior Service Worker (Field Staff)/ Operator
- Crew Chief/Assistant Supervisor/Program Coordinator
- Supervisor
- Manager

Emergency Coordinator

- Crew Chief/Assistant Supervisor/Program Coordinator
- Supervisor
- Manager
- Assistant Director

Safety, Claims and Risk Management Officers

- Safety Department Staff
- Risk Management Staff
- Other Assigned Staff

Public Information Officers

- Communications Manager
- Communications Specialist
- Other Assigned Staff

Staff Standby

- Assistant Director
- Assistant General Manager (AGM)
- General Manager (GM)
- Other Assigned Staff

Figure 1 CVWD Staff Roles and Responsibilities

6.6 Role Responsibilities

6.6.1 First Responder

- The first responder must respond to the spill site and visually check for potential sewer stoppages, see *Section 7, Spill Response Procedures*, of this Spill Emergency Response Plan (SERP) for detailed responsibilities of a First Responder.

6.6.2 Incident Commander

- Assume primary management and coordinate all emergency actions.
- Initiate notification process of required spill, if feasible
- Direct immediate spill control and containment measures
- Communicate with the Collection Systems Supervisor, Wastewater Operations Manager, and the Assistant Director of Sanitation or Assistant General Manager (AGM).
- Provide estimate of spill volume.
- Record: photos, spill abatement activities, and damage.
- Oversee all corrective work and cleanup activities.
- Request expenditure of emergency response resources
- Staff on Standby can be authorized during off-normal hours.

6.6.3 Emergency Coordinator

- Assist Staff Standby in the notification process as official reporting coordinator.
- Notify all necessary regulatory agencies in accordance with pertinent regulations.
- Communicate with the GM, AGM, and the public information officer.
- Request assistance from other departments or other agencies.
- Notify and coordinate assigned tasks and field inspection of contractors.
- Request mutual aid from neighboring wastewater agencies.
- Authorize expenditure of emergency response resources
- Provide an official estimate of spill volume.
- Direct sampling plan, if necessary
- Finalize reports: documented photos, spill abatement activities, and damage.
- Direct the posting and removal of contamination warning signs as needed.
- Can assume role of Incident Commander (IC), may also be authorized staff on Standby during off-normal hours.

6.6.4 Safety, Claims, and Risk Management Officer

- Document safety related events during the spill.
- Provide safety related consultation to incident commander, emergency.
- Coordinator, mitigation team and remediation team
- Oversee the proper use of personal protective equipment.
- Assess damages to private property and report these to the incident commander.
- Report all incidents to insurance carriers and interface with legal entities.

6.6.5 Public Information Officer

- Coordinate all media and public information communications.
- Report to the incident commander for status reports on spill abatement activities.
- Provide the GM and AGM with status reports regarding media coverage and public information releases.

6.7 Standby Personnel

During Off-normal hours, Standby personnel are assigned to various positions including the Emergency Coordinator. These assignments are posted on CVWD’s SharePoint Operations Documents page, and in the CVWD Control room at the Critical Service and Support (CSS) building at the Palm Desert campus, where incoming calls are received.

STANDBY PERSONNEL	<ul style="list-style-type: none">• Incident commander: manager, supervisor, crew chief or assigned senior staff on standby as per scheduled assignment or available at time of incident.• Emergency Coordinator: crew chief, supervisor, manager, GM Staff Standby person and/or General Manager• Other personnel as needed or requested by the responding Stand-by team or supervisory personnel.
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6.7.1 GM Staff Standby

The designated General Manager (GM) Staff Standby employee assumes responsibility for all emergencies occurring outside of normal business hours during their assigned on-call week. Detailed information regarding GM Staff Standby protocols can be found in Section 8 of the CVWD Emergency Response Plan⁴. Emergency response staff on Staff Standby should consult the CVWD Emergency Response Plan, managed by the Emergency Response Administrator, for additional requirements.

Administrative staff required to serve standby duties may follow the Staff Stand-by Notification Procedures for Unauthorized Discharges (Spills) identified on the Spill Response Workbook, Chapters 1-5.

⁴ CVWD Emergency Response Plan 2020, 7-20-2021.

6.7.1.1 Emergency Coordinator and Staff Standby Reporting

The Reporting Emergency Coordinator will manage all unauthorized wastewater discharges, implementing necessary response actions based on the specific circumstances of the incident. Subsequently, the Emergency Coordinator will disseminate pertinent spill details and required information to the Incident Commander, Safety and Claims Officer, Public Information Officer, and Official Reporting Coordinator (CVWD Staff Standby, as detailed in Section 6.7, Standby Personnel), adhering to the notification priority outlined in the CVWD’s Spill Response Chain of Command Flow Chart (Figure 2). External notifications will be executed as mandated and further described in Section 14.2, Notification Processes. The Reporting Emergency Coordinator will maintain oversight of all notification procedures for unauthorized wastewater discharges as required.

6.7.2 Safety, Claims, and Risk Management Officers

The Safety Department is responsible for the strategic planning, implementation, monitoring, and evaluation of the CVWD's Injury and Illness Prevention Program (IIPP). This includes developing and delivering safety training to ensure compliance with OSHA regulations and collaborating with Risk Management on incident and claims investigations and reporting, adhering to federal and state statutes.

The Risk Management Division oversees CVWD's risk management and insurance programs, including procuring coverage, administering the self-insured Workers' Compensation program, and managing property and casualty claims. The division ensures contractor insurance compliance and serves as a consultative resource for management on risk, insurance, and claims matters, proactively implementing preventative and mitigative procedures.

SAFETY AND CLAIMS PERSONNEL	<ul style="list-style-type: none">• Emergency Response Administrator, Safety and Training Specialist, Risk Management Specialist• Other personnel as needed or requested by the responding Stand-by team or supervisory personnel.
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6.7.3 First Responder Safety

While first responders maintain primary responsibility for adhering to established safety policies and protocols, sewer system incidents present unique hazards that CVWD emergency response personnel may not be fully cognizant of. Therefore, the implementation of supplementary safety precautions specific to sewer work may be required to ensure the well-being of all personnel involved.

In such instances, it is advisable for first responders to conduct a field meeting to discuss the following critical elements:

- A comprehensive assessment of potential hazards and a meticulous inspection of all safety equipment prior to use.
- Careful consideration of the sequence of work activities.
- The availability of the CVWD Illness and Injury Prevention Program (IIPP) on the CVWD SharePoint platform for reference.

6.7.3.1 Safety Access Restrictions

In the event that First Responders encounter access limitations or unsafe conditions that hinder compliance with spill response protocols or monitoring requirements as stipulated in the Waste Discharge Requirements (WDR), the CVWD will be obligated to submit formal written documentation detailing these restrictions and/or safety hazards within the relevant regulatory report.

6.8 Public Information Officers

The Communication Team is responsible for providing information to customers, employees, and the community through presentations to civic and community organizations, tours, public events, newsletters, brochures, CVWD website, and social media page.

- News media is used to help educate the community and members of the media through news releases, fact sheets and interviews.

COMMUNICATIONS	<ul style="list-style-type: none">• Director of Service, Communication Manager• Other personnel as needed or requested by the responding Stand-by team or supervisory personnel.
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CVWD Communications Manager can be contacted at: (760) 398-2661 ext. 2549 or by phone at (760) 695-4007.

LEGEND

SSS = SPILL
CO = CONTROL OPERATOR
CSR = CUSTOMER SERVICE REPRESENTATIVE

FR = FIRST RESPONDER
REGULAR WORK HOURS:
 a) Service Worker, Technician, Operator
 b) Crew Chief, Assistant Supervisor, Program Coordinator

NIGHTS AND WEEKENDS – OFF NORMAL WORK HOURS
 a) Assigned Standby Staff
 b) Service Worker, Technician, Operator
 c) Crew Chief, Assistant Supervisor, Program Coordinator

IC = INCIDENT COMMANDER
 a) Senior Service Workers
 b) Crew Chief, Assistant Supervisor, Program Coordinator
 c) Supervisor, Specialist, Manager

EC = EMERGENCY COORDINATOR
REGULAR WORK HOURS:
 a) Crew Chief, Assistant Supervisor, Program Coordinator
 b) Supervisor, Specialist, Manager
 c) Assistant Director, Director

NIGHTS AND WEEKENDS – OFF NORMAL WORK HOURS
 a) Assigned Standby Staff
 b) Supervisor, Manager
 c) Staff Standby

PIO = PUBLIC INFORMATION OFFICER
 a) Communication Specialist
 b) Communication Manager
 c) Director of Service

HR = SAFETY & CLAIMS PERSONNEL
REGULAR WORK AND/OR OFF NORMAL WORK HOURS
 a) Risk Management Specialist/Senior
 b) Safety & Training Specialist/Assistant
 c) Emergency Response Administrator
 d) Human Resources Director

RC = REPORTING COORDINATOR
REGULAR WORK HOURS:
 a) Supervisor, Crew Chief, Specialist, Manager
 b) Assistant Director, Director

NIGHTS AND WEEKENDS – OFF NORMAL WORK HOURS
 a) Assigned Standby Staff
 b) Supervisor, Manager
 c) Staff Standby

AU = AUTHORIZED STAFF
 a) Data Submitters
 b) Legally Responsible Official

*California Office of Emergency Services (OES) (2hrs) and the Department of Public Health are notified when SSS is greater than or equal to 1,000 gallons discharge or is and/or potentially will be discharged to surface water. The RWQCB requires notice within 24hrs, via email.

**The CVWD Environmental Services Division is notified when an SSS of 50,000 gallons or greater are spilled to surface water and/or spill sampling is required.

*** CVWD Staff Standby is available off normal hours

SANITARY SPILL EMERGENCY RESPONSE PLAN
SPILL RESPONSE FLOW CHART

Refer to the CVWD SERP, CVWD SOP's and the WDR 2022-0103-DWQ Order for detailed guidance of the spill response process. Not intended to supersede the CVWD ERP.

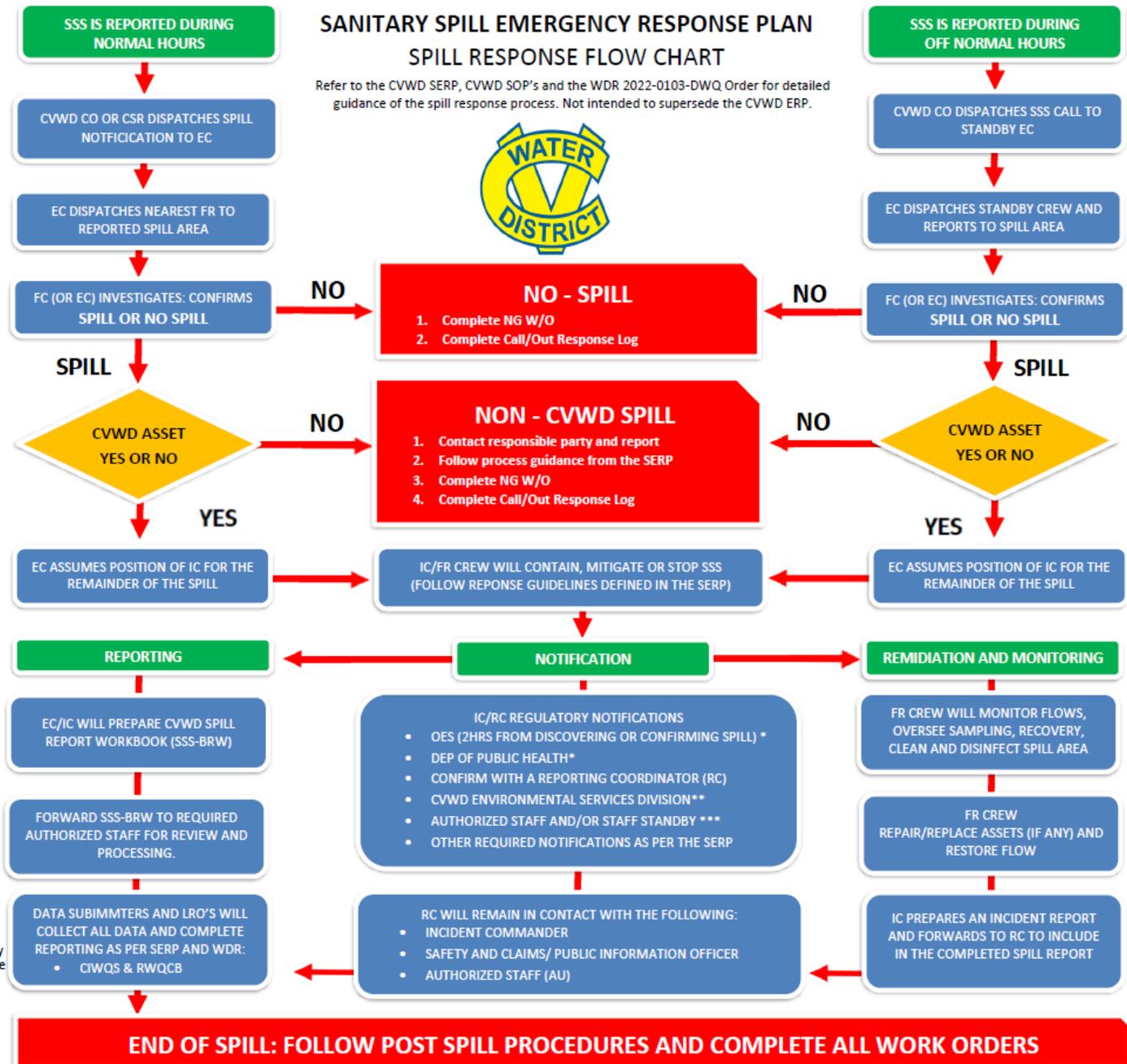


Figure 2 Spill Response Chain of Command Flow Chart

7 Spill Response Procedures

The following procedures provide guidance for responding to sanitary sewer spills. For comprehensive details and required forms, CVWD staff shall consult the Spill Response Workbook, provided as Attachment B to this Spill Emergency Response Plan (SERP).

7.1.1 R.E.C.O.V.E.R. Methodology

- **R**eceiving spill notice
- **E**valuate and investigate the problem
- **C**ontainment of the spill and/or diversion of flow
- **O**btainment and recovery of spill material
- **V**igilant cleanup and disinfection
- **E**xpediting mitigation by completing immediate repair and/or temporary control.
- **R**estore flow to normal operating conditions

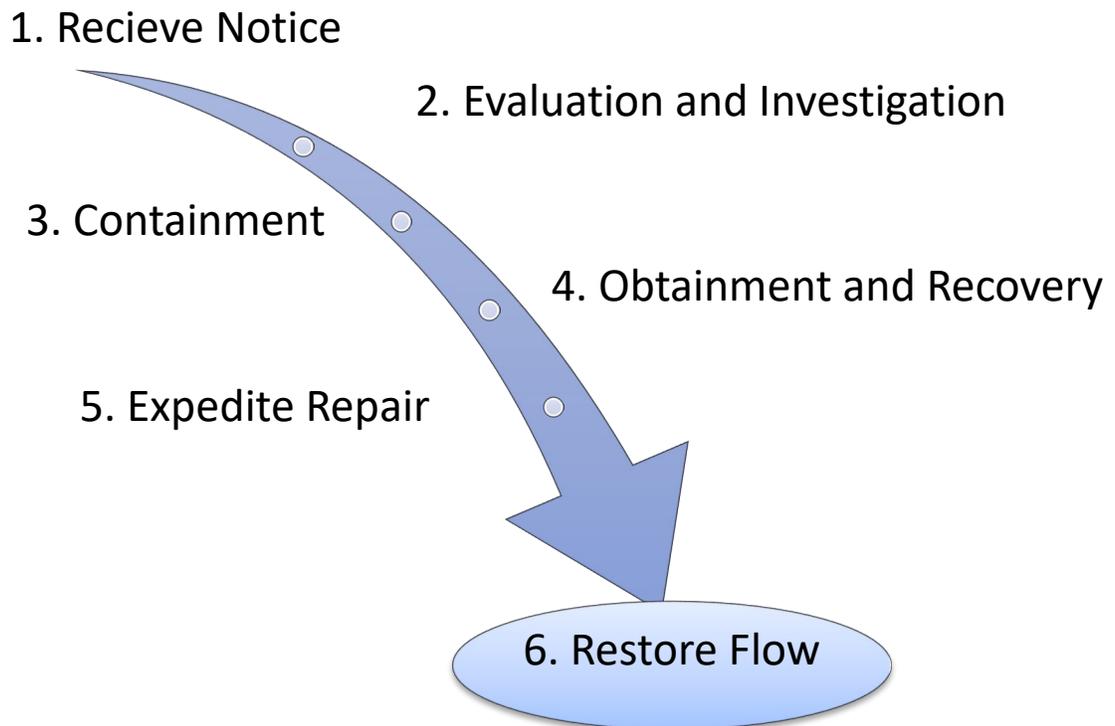


Figure 3 Spill Response Methodology Flow Diagram

7.2 Receiving Incoming Spill Notice

Upon receiving a report of a potential spill, Customer Service Representatives (CSRs) and Control personnel will gather the following critical information:

- The precise location of the incident.
- The estimated time of spill commencement.

Following the acquisition of this information, the designated First Responder will be promptly contacted via cellular communication, the Everbridge system, automated dispatch email, or standard email and will proceed to the spill site as warranted.

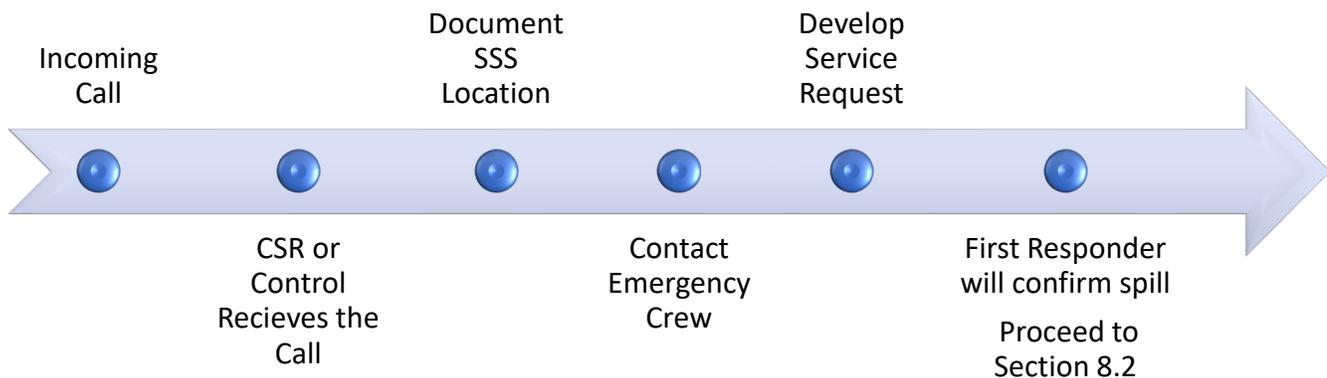


Figure 4 Managing an Incoming Call, Flowchart

7.3 First Responder Procedures

Upon arrival at the spill/backup site, the First Responder will conduct a thorough visual investigation to identify any potential sewer stoppages. The First Responder will then relay all collected information to the responding emergency crew Supervisor or Authorized Staff. These personnel will be responsible for completing all necessary regulatory notifications in strict accordance with the Waste Discharge Requirements (WDR) Order, guidance provided in the Notification Requirements Section of this Spill Emergency Response Plan (SERP), and the Spill Response Workbook (SRW).

7.3.1 First Responder Checklist

Upon arrival, the First Responder will:

- Record the reported and actual arrival times at the spill/backup site.
- Don personal protective equipment and adhere to all safety regulations.
- Confirm the presence of a sewer system spill or backup.
- Document the incident and surrounding area with photos and/or videos.

7.3.2 Spill Confirmation Protocol

- **SPILL - CONFIRMED**

Proceed to the next steps in this section.

- **NO SPILL - CONFIRMED**

Complete the NEXGEN Service Request work order as per departmental SOP, including any required callout notification and documentation such as an Incident Report (refer to flow chart in the SRW).

7.3.3 Spill Categorization and Notification

7.3.3.1 Category 1 Determination

A "Yes" to either of the following indicates a Category 1 Spill:

- Did the spill reach a drainage conveyance system (DCS) or surface waters?
- Did the spill discharge into a DCS without full recapture and return to the sanitary sewer system?

Continue to the following steps on the next page.

Immediate Notification (Category 1)

Immediately notify the responding crew Supervisor, Wastewater Operations Manager, and the Collections Systems Supervisor.

- **Category 1 Volume Threshold:** If a Category 1 spill exceeds 1,000 gallons, notify Cal OES within two hours.
- **Category 2 & 3 Notification:** Notify authorized CVWD staff for Category 2 or 3 spills, while prioritizing containment and blockage clearance.
- **Receiving Water Identification:** Identify any receiving water potentially impacted by the spill.

7.3.4 Spill Evaluation and Documentation:

- Identify and assess the affected area and extent of the spill.
- Document spill location(s) and spread using photography, GPS, and other available tools.
- Thoroughly document the spill and response activities on the forms provided in the SRW, including photographic and/or video evidence where feasible, according to the Reporting Requirements section of this SERP.

7.4 Spill Response Procedures

Spill Response Procedures are broken down by CVWD Owned Asset Spills or Private Sewer Lateral (PSL) or Private System Spills.

7.4.1 CVWD Owned Asset Spill

If it is possible that the spill/backup is due to a failure in CVWD-owned/maintained sewer assets or pipelines the emergency response crew:

- Follow the instructions in the Spill Response Workbook (SRW).
- Notify the respective response crew Supervisor or Wastewater Operations Manager of the incident.
- Relieve blockage, perform repairs and clean impacted areas.
- Forward the completed SRW to the Collection System Supervisor and the Wastewater Operations Manager, if applicable.

7.4.2 Private Sewer and Private Sewer Lateral Spill

CVWD emergency response staff will respond to spills as soon as feasible following notification of a spill/backup:

If it is not possible that the spill/backup is due to a failure in CVWD-owned/maintained sewer lines, the emergency response crew performs the following:

- Follow the instructions in the SRW.
- If the customer is not home the emergency response crew will leave a door hanger and a CVWD sewer lateral flyer on the customer's door.
- If the spill has the risk of potentially causing problems to the environment and/or health, the responding crew, if safe and feasible, may take preventive action to impede an elevation in Spill Category; the customer or property owner may be held responsible for any charges and expenses associated with response to the incident⁵.

If the customer is home the emergency response crew:

- Explain that the blockage is in the customer's lateral and CVWD does not have legal authority to maintain or perform work on privately owned laterals.
- Recommend to the customer that they hire a licensed contractor to clear their line.
- Give the customer, "Understanding Your Private Sewer lateral" flyer⁶
- The responding supervisor or lead will follow up with the customer/property owner to confirm the work is completed with no continued spill threat.

⁵ Coachella Valley Water District Code be found electronically at: <https://cvwd.district.codes>.

⁶ CVWD Understanding Your PSL Fact Sheet - <https://www.cvwd.org/documentcenter/view/6875>.

7.5 Containment

- Protect surface waters to the extent practicable.
- Spill Control and Containment
- If spilled sewage has entered a storm drainage system, attempt to contain the spilled sewage by plugging downstream storm drainage facilities
 - a) **Contain** spilled sewage using dikes/dam (construct small dikes and/or sandbag dams to contain spills), means and methods will be documented.
 - b) **Divert** (construct small dikes to change direction of flow to containment area or to sewer).
 - c) **Retain** (let spill collect in natural low areas or sump and remove as soon as possible, see Section 9, Recovery and Clean Up).
 - d) **Isolate** all street storm drains and curb catch basins to prevent spills from entering using air plugs, sandbags, and/or plastic mats to contain the spill, whenever appropriate. If spilled sewage has entered the storm drainage system, attempt to contain the spilled sewage by plugging downstream storm drainage facilities.
 - e) **Vacuum** retrieve sewage whenever practicable (See Section 9, Recovery & Clean Up)
 - f) **Pump** around the blockage/pipe failure via bypassing equipment.



Figure 5 Containment, Overview List

7.5.1 Protection of the Public

CVWD Emergency response staff shall minimize public access to and/or contact with the spilled sewage, control the entry of the spill area, limiting access to only those personnel performing spill response tasks:

If it is determined that traffic control is necessary, the First Responder should use the means and methods identified in Figure 4 and utilize a flag-person to control vehicle or pedestrian traffic.

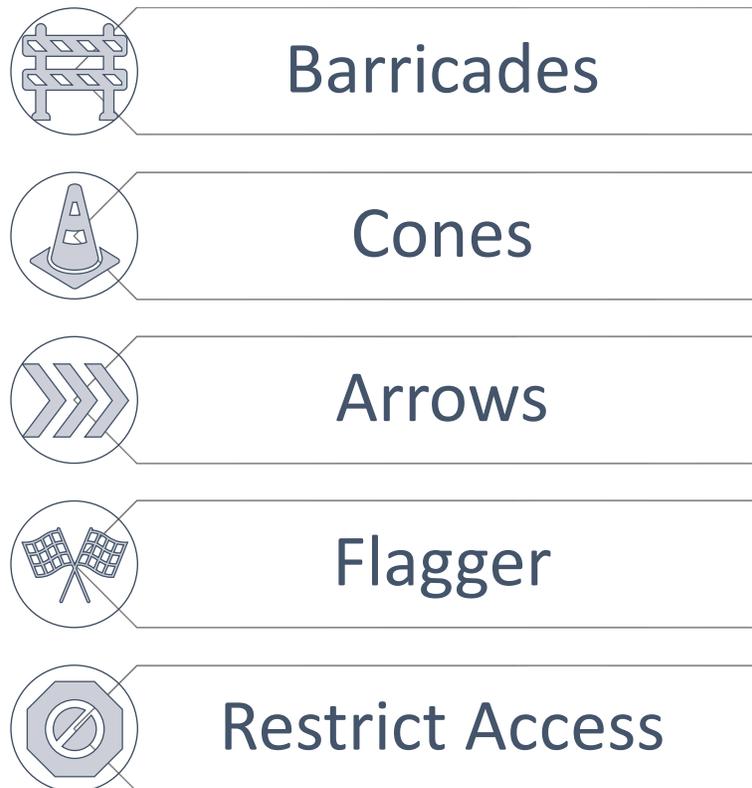


Figure 6 Protection of the Public, Overview List

7.6 Deploying Resources

- Respond promptly with the appropriate and necessary equipment.
- Promptly notify corresponding supervisor or manager (Emergency Coordinator, see Section 7.3 for details) in the event of a spill needing additional resources or personnel, and/or the spill is impacting environmentally sensitive areas.

Upon notification of a reported spill, the Incident Commander and Emergency Coordinator will promptly assess the situation, either through remote information or by conducting a site evaluation. Subsequently, the Incident Commander will deploy the appropriate remediation teams to the spill location to implement necessary actions for mitigation, containment, and correction of the causative issue. Emergency response inventory is strategically located at various sites, with primary storage in the Collection Systems storage units in Palm Desert and the Coachella Warehouse. A comprehensive inventory of available emergency response equipment and replacement parts is detailed in the Sewer System Management Plan (SSMP), Part A, Chapter 4, Section 4.5, "Equipment and Replacement Parts Inventories."

7.6.1 Emergency Response Equipment

Standard operating procedures for equipment that may be necessary in the event of a sanitary sewer spill or backup can be found in SharePoint. Spill response materials can be found at CVWD Warehouses and in the emergency storage units in Palm Desert.

It is the First Responders responsibility to inform their direct supervisor if spill response materials are necessary for each spill event.

This section provides a list of specialized equipment that may be used to support this Spill Emergency Response Plan, listed on the SSMP Part A, Chapter 4, Section 4.5, "Equipment and Replacement Parts Inventories" is a list of specialized equipment that may be used to support this Spill Emergency Response Plan. Standard operating procedures for equipment that may be necessary in the event of a sanitary sewer spill or backup can be found in electronic files on Share Point.

7.6.1.1 Combination Sewer Cleaning Trucks

Combination high velocity sewer cleaning trucks with vacuum tanks are required to clear blockages in gravity sewers, vacuum spilled sewage, and wash down the impacted area following the spill event.

7.6.1.2 Closed Circuit Television (CCTV) Inspection Unit

A CCTV Inspection Unit is required to determine the root cause for all spills from gravity sewers.

7.6.1.3 Service Trucks

A utility vehicle is required to store and transport the equipment needed to effectively respond to sewer emergencies.

- Air plugs, sandbags, and plastic mats
- Spill Sampling Kits
- Portable Lights

7.6.1.4 Heavy Equipment

Heavy equipment such as backhoes, front-loaders, skip loaders, and skid-steers are available to respond to emergencies that require earth moving or excavation.

7.6.1.5 Emergency Mobile Equipment

Portable Generators, jetter trailer, jack-hammers equipment used to repair, divert, or power equipment to mitigate a spill.

7.6.1.6 Portable Pumps, Piping, and Hoses

Equipment used to bypass pump, divert, or power equipment to mitigate a spill. In the event of an emergency or when the CVWD sanitary system requires maintenance, bypass operations may be required to transfer the wastewater to another part of the system. It is critical to select the right pumps to maintain the sewer system during the bypass, reducing the risk of delays, and minimizing potential threats to the environment.

7.6.1.7 Mobile Bypass Pump Selection

It is vital to comprehend the following four (4) steps to for a successful sewage bypass:

1. Determine the pump quantity for the sewer bypass and backup system.
2. Determine the peak flow of the pipeline and the type of wastewater.
3. Check the depth of the sewer pipeline and sewage level.
4. Have a contingency plan ready, see ATTACHMENT K for LS site specific plans.

7.6.1.8 Location if Mobile Bypass Pumps

Mobile pumps can be found at the Collections Storage Units on the Southern perimeter of WRP-10 adjacent to C-Plant.

- Pump #872 can be found at Lift Station 55-12
- Pump #812 at Lift Station 80-03.

7.6.1.9 Bypass Accessories

CVWD Collections team bypassing equipment includes, but not limited to:

- Lay flat hose (Bauer and Cam-Lok)
- Ethylene Propylene Diene Monomer (EPDM) hose (Victaulic, and Cam-Lok)
- Aluminum piping (Bauer and Victaulic)
- Adapters, flanges, reducers, 90's, 45's, etc. (various)
- Pipe trailer is available to stage in preparation for an emergency or to transport equipment to a site.

7.7 Restoration of Flow

Restore flow utilizing all means and methods available.

- Utilize primary response method, combination vehicle to break blockage.
- If necessary, utilize secondary methods to temporarily restore flow:
 - Bypass pump.
 - Flow diversions.

7.7.1 Breaking a Sewer Blockage

Primary response method to restore flow:

1. Set up downstream of the blockage and hydro-jet upstream (against the flow) from a clear maintenance hole, downstream.
2. Attempt to remove the blockage from the system and observe the flows to ensure that the blockage does not recur downstream.

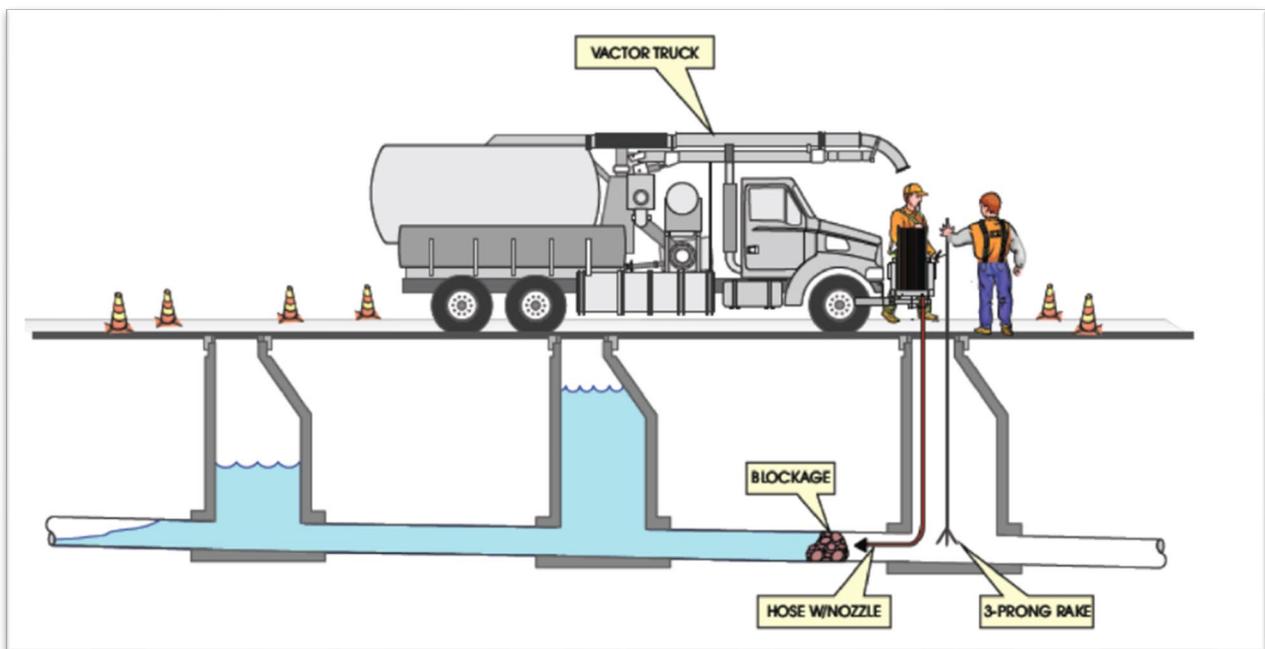


Figure 7 Clearing Blockage

Secondary response method to temporarily restore flow:

If the blockage cannot be cleared within a reasonable time from arrival, or sewer requires construction repairs to restore flow, then initiate and/or continue with containment and/or bypass pumping.

If other assistance is required, immediately contact the responding crew Supervisor, the Collection System Supervisor and/or the Wastewater Operations Manager. For procedures refer to the SRW.

8 Recovery and Cleanup

The recovery and cleanup phase starts immediately after the flow has been restored and the spilled sewage has been contained, to the best extent possible. The spill recovery and cleanup procedures are described in the following sections.

8.1 Recovery of Spilled Sewage

- a) Transfer sewage by utilizing combination or pumper trucks, and or by-pass pumps to divert flow to area treatment plants, closest downstream maintenance hole or closest sewer system area.
- b) Absorb spilled material by using sand or other absorbent product and remove with shovels or front-end loaders.
- c) Double check area of spill to assure final cleanup and disinfection of affected area and washdown water.

8.2 Cleanup and Disinfection

Clean up procedures will be implemented to reduce the potential for human health issues and adverse environmental impacts associated with a spill event. The procedures described are for dry weather conditions and will be modified as required for wet weather conditions. Where cleanup is beyond the capabilities of CVWD staff, a cleanup contractor may be utilized.

8.2.1.1 Private Property

CVWD crews are responsible for the cleanup when the property damage is minor in nature and is outside of private building dwellings, such as in front, side and backyards, easements, etc. In all other cases, affected property owners can call a water damage restoration contractor to complete the cleanup and restoration. If the sewer spill into property is the definite cause of CVWD system failure, the property owners may contact CVWD Risk Management to place a claim.

8.2.1.2 Paved Surface Areas

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Wash down the affected area with clean water and a non-toxic biodegradable surface disinfectant until the water runs clear. The flushing volume will be approximately three times the estimated volume of the spill. Take steps to contain and vacuum up the wastewater. Allow area to dry. Repeat the process if additional cleaning is required.

8.2.1.3 Landscaped and Unimproved Land

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Wash down the affected area with clean water until the water runs clear. The flushing volume will be approximately three times the estimated volume of the spill. Either contain or vacuum up the wash water so that none is released. Allow the area to dry. Repeat the process if additional cleaning is required.

8.2.1.4 Natural Waterways

The Department of Fish and Wildlife will be notified by CalOES for spills greater than or equal to 1,000 gallons. For spills less than 1,000 gallons, contact Riverside County Environmental Health Services for additional directions.

8.2.1.5 Wet Weather

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Omit flushing and sampling during heavy storm events (i.e., sheet of rainwater across paved surfaces) with heavy runoff where flushing is not required, and sampling would not provide meaningful results.

9 Post Spill Procedures

CVWD will determine and address the cause of the spill which enters surface waters and employ the following measures to prevent future spills:

- If the spill is caused by a structural defect, then immediately spot repair the defect or replace the entire line.
- If the defect is non-structural, such as a grease blockage or vandalism to a manhole cover, then perform additional maintenance or cleaning, and any other appropriate measures to fix the non-structural defect.

If required to repair or replace damaged assets CVWD staff will follow appropriate construction means and methods to repair or replace damaged assets. Engineering will provide support and approval for additional critical repairs.

- Document new asset attribute data for CMMS updating, if feasible.
- Restore the area to its original condition (or as close as possible).
- Contact the caller/reporter, if feasible.
- Implement pre-planned coordination and collaboration with storm drain agencies and other utility agencies/departments prior, during, and after a spill event.
- Collect information for the prevention of future spills.
- Perform a Post Spill assessment and Failure Analysis (ATTACHMENT D - Post Spill Analysis)

9.1 Spill Documentation

The responding Supervisor, Authorized Staff, or the Wastewater Operations Manager performs required regulatory reporting in accordance with the WDR Order and guidance from the Monitoring and Reporting Requirements Section of this SERP and the Spill Response Workbook (SRW).

If the spill has impacted private property, the emergency response crew shall:

- Follow the instructions in the SRW.
- Immediately contact their assigned Supervisor or the Wastewater Operations Manager.
- Contact Environmental Services for possible investigation, if applicable.
- Contact Risk Management for claims processing, if applicable.
- Provide the customer with forms and information as indicated in the SRW.
- Forward the completed SRW to their assigned Supervisor, Collection System Supervisor, and the Wastewater Operations Manager.

9.1.1 Document Sign Off

The responding supervisor appropriately documents in writing all activities and communications before forwarding and approving the final event file, aka Incident Report.

The responding Supervisor will notify the Wastewater Operations Manager and the Sewer Collection System Supervisor of all spill incidents by forwarding information Incident Report (IR) and attaching the completed Spill Response Workbook (SRW)

9.1.1.1 Risk Management – Claims

- As appropriate, IR's and other incident information are forwarded via Right Signature for review and sign-off.
- Follow incident report workflows for proper procedures in designating signers and carbon copy (CC) list of personnel via Right Signature, for all spills at a minimum, carbon copy the Collection System Supervisor and the Wastewater Operations Manager.
- Management may, if requested, communicate with Risk Management – Claims to adjust and assist in administering a claim to closure.

10 Spill Estimation

All estimation information shall be documented on the Sewer Spill Report and the Spill Response Workbook (SRW).

A variety of approaches exist for estimating the volume of a sanitary sewer spill. The Emergency Response Crew members should use the method most appropriate to the sewer spill in question and reference the SRW which provides three (3) methods in detail:

1. Eyeball Estimation Method
2. Measured Volume Method
3. Duration and Flow Rate Comparison Method

In addition, if applicable, the following shall be documented on the sewer spill report and SRW:

- Description, photographs, and GPS coordinates of the system location where the spill originated. If a single spill event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the spill appearance point explanation field.
- Estimated total spill volume exiting the system.
- Description and photographs of the extent of the spill and spill boundaries.
- Did the spill reach a drainage conveyance system? If yes:
 - Description of the drainage conveyance system transporting the spill.
 - Photographs of the drainage conveyance system entry location(s).
 - Estimated spill volume that reached the drainage conveyance system.
 - Estimated spill volume fully recovered from the drainage conveyance system.
 - Estimated spill volume remaining within the drainage conveyance system.
 - Estimated spill volume discharged to a groundwater infiltration basin or facility, if applicable.
 - Estimated spill travel time from the point of entry into the drainage conveyance system to the point of discharge into the receiving water.
 - The estimated total spill volume recovered.

10.1.1 Eyeball Estimation Method

Applicability: For use on very spills up to 100 gallons.

- Image the amount of water that would spill from a bucket or barrel and use that image to estimate the volume of the Spill.
 - A bucket contains 5 gallons.
 - A barrel contains 55 gallons.
- For Spill s greater than 55 gallons, divide the standing water into barrels and multiply the number of barrels by 55 gallons.

10.1.2 Measured Volume

Applicability: For use on most spills where pooled or contained water can be measured.

- Sketch the shape of the contained sewage.
- Measure or pace off the dimensions in feet.
- Measure the depth in feet.
- Calculate the area using the following formulas:
 - Rectangle: $\text{Area} = \text{length} \times \text{width}$
 - Circle: $\text{Area} = 0.785 \times D^2$ where D is the circle diameter
 - Triangle: $\text{Area} = \text{base} \times \text{height} \times 0.5$
- Multiply the area calculated in the previous step times the depth of the Spill.
- Multiply this number by 7.48 to convert it to gallons.
- This number is the volume of the Spill in gallons.
- The Volume Estimation Guide can be referenced for additional calculation methods.

10.1.3 Duration and Flow Rate Comparison Method

Applicability: spills where it is difficult or impossible to measure the area and depth.

10.1.3.1 Duration:

The duration is the elapsed time from the start time of the spill to the time the spill stopped.

10.1.3.2 Start Time:

Ask residents about their observations of the spills, including odors and sounds. This information can be used to estimate the start time.

10.1.3.3 End Time:

This is the time at which the spill was stopped by the field crew.

10.1.3.4 Flow Rate:

The flow rate is the average flow that left the sewer system during the time of the Spill, which can be estimated the following:

- Manhole Flow Rate Chart
- Use the Spill Response Workbook to document the flow rate calculation.
 - This chart illustrates the sewage flowing from a manhole cover for a variety of flow rates.
- The observations of the field crew, which must be documented in photographs, are used to select the approximate flow rate from the chart.

10.1.3.5 Volume Estimate:

- Estimated Spill Volume = Duration (in hours) x Flow Rate (in gallons per hour); or
- Estimated Spill Volume = Duration (in days) x Flow Rate (in gallons per day).

10.2 Contractor Spill Response

Contractors performing work on any CVWD sanitary sewer main or asset necessitating isolation, diversion, or other repair methods that will impact sewage conveyance are required to submit a comprehensive sewer spill emergency plan and bypass plan, or a combined document thereof, for review and approval by CVWD Engineering and Operations staff prior to commencement of work.

10.2.1 Instructions for Contractors

All contractors working on CVWD facilities will be required to follow the spill response instructions listed below and requirements set by the State WDR Order. Additional guidance on Sanitary Sewer Spill Response Instructions for Contractors is in the Spill Response Workbook.

The following procedures are to be followed in the event that a contractor causes or witnesses a Sanitary Sewer Spill. If the contractor causes or witnesses a spill they should immediately notify CVWD and provide the following information, if available:

- Contractor's contact information
- Date, time contractor first noticed the spill.
- Description of the contractor's observation,
- Any information regarding whether the spill has reached surface waters or a drainage conveyance system.

The following procedures outline initial response actions for Contractors to mitigate the impact of a spill:

1. Containment and Diversion: Implement appropriate control measures, such as mats, sandbags, plugs, dikes, or berms, to prevent the spill from entering storm drains and waterways.
2. Public Safety: In situations where a spill poses a potential risk of public contact, and if it is safe to do so, monitor the affected area until the designated CVWD emergency response team arrives.
3. Information Dissemination: Provide the CVWD Sanitation Department with comprehensive details regarding the spill incident, including the time of occurrence, actions taken, point of origin, suspected cause, and prevailing weather conditions.
4. Media Management: All media and public relations inquiries shall be directed to the CVWD Communications Manager through the immediate responding CVWD Emergency Coordinator.

10.2.1.1 Training

Critical training for contractors will be provided by CVWD to ensure compliance of spill response activities.

11 Pressurized sewer spill response

Pressurized system breaks may require more coordination with the entire spill response organization, as they will potentially involve personnel from other CVWD departments and outside contractors due to the anticipated size of spill, corrective work, and equipment needed.

The following asset classes are primary examples of CVWD hydraulic (pressurized) sewer:

- Wastewater Lift Stations (Lift Stations, LS)
- Sewer Force Mains (SFM)
- Air Vacuum Release Valves (Air-Vac, AV)

11.1 Lift Stations

Wastewater lift stations are facilities designed to move wastewater from lower to higher elevation through pipes. Key elements of lift stations include wastewater wet wells; pumps and piping with associated valves; motors; a power supply system; an equipment control and alarm system; and an odor control system and ventilation system.

CVWD operates twenty-five (25) wastewater lift stations. In the event of a station failure the SCADA alarm system or auto-dialers are activated and CVWD is contacted. To prevent spills, wastewater from the wet well can either be pumped into a vacuum truck for disposal to a nearby sanitary sewer maintenance hole or bypassed around the station into the sanitary sewer system.



Figure 8 Lift Station 81-01

11.1.1 CVWD Sanitary Lift Station Sites

Comprehensive list of site specifications provided in ATTACHMENT L.

Count	LIFT STATION No.	LOCATION
1	50-01	South of Desert Beach Dr. North Shore
2	50-02	West Palm Dr. North Shore (Bunker Hill)
3	51-01	5th & F St. Bombay Beach
4	55-01	Ave 50th & the La Quinta SWC
5	55-11	Hammond Rd. South of Ave 66 Mecca
6	55-12	Jefferson St. Lift Station @ Home Depot.
7	55-19	Calhoun & Airport Blvd. Thermal
8	55-21	Middleton Rd. Desert Mirage High School
9	55-24	Jackson St. North of Ave. 52
10	55-26	Pierce St. South of Ave. 62
11	55-27	SADD 91080 68th Ave, Mecca CA 92254
12	80-03	Cook St. L/S SE corner of Cook St. & Channel
13	80-04	Indian Wells @ Hwy 111 & SWC (Cliffhouse)
14	80-05	Mountain Cove Dr. Indian Wells
15	80-06	Country Club Dr. East of Hwy 111 (ID-57)
16	80-07	Paxton Dr. E of Hwy 111 by SWC Rancho Mirage
17	80-08	Sandpiper Lift Station off El Paseo Dr. Gate "B"
18	80-09	Vintage C.C. Vintage Dr. & Morning Star Dr.
19	80-13	Grand Champions Indian Wells (below ground)
20	80-18	WRP #10 Bio solids Building (Toscana)
21	80-19	Miles Ave @ Warner Dr. Indian Wells
22	81-01	Washington St. L/S (Wendy's Restaurant)
23	81-03	Burr St. lift Station.
24	81-04	Del Webb L/S @ Adams St. & Varner Rd.
25	81-07	Varner Rd. @ Canal, Indio

Table 3 Sanitary Lift Station Site List

11.1.2 Lift Station Pump Failure

In the event of a lift station pump failure, the following steps should be taken to prevent any further damage or spills:

- Determine if the pump will run in the hand or automatic mode.
Note: All lift station sites are controlled automatically. The pump control selector switch should be in the automatic position during normal operation.
- If the pump will not run in automatic mode but does run in the hand position, contact Control to request immediate assistance of standby personnel after normal working hours.
Note: In the event one must run the pump on hand in an emergency, be aware that by doing so you are bypassing all equipment safeguards. Do not leave the pump unattended when operating in this mode.
- If pump/s is none responsive to either the automatic
- or hand mode of operation, contact the Electrical Shop or have control contact the standby electrician if after normal working hours and notify the standby collection system maintenance crew to install temporary portable pumping equipment if needed.
- When the portable pumping equipment is in use during an emergency, make sure the lift station pump control selector switch and the pump disconnect switches are in the off position.
- If it is determined that the site has lost power, contact the Electrical Shop. If failure occurs after normal working hours, have control contact the standby electrician.

If there is no generator on site, contact the auto shop to deliver a mobile generator to the site. If after normal working hours, have control contact the stand-by Auto Shop Mechanic.

11.2 Sewer Force Main Response

A pressurized or hydraulic system is comprised of force mains and Sanitary Air/Vacuum Release (Air-Vac) Valves. Force mains are pipelines that convey wastewater under pressure from the discharge side of a pump to a discharge point, force main. Force mains are very reliable when they are properly designed and maintained. In general, force main reliability and useful life are comparable to that of gravity sewer lines, but pipeline reliability may be compromised by excessive pressure surges, corrosion, or lack of routine maintenance.

11.2.1.1 Sewer Force Main Failure

In the event of a SFM failure, the following steps should be taken to respond:

- Notify the Emergency Coordinator of the situation and if needed request additional staff for the shutdown of lift stations or flow diversion is needed.
- Contain spill by constructing or excavating containment area in the area of spill.
- Close inline valves closest to the spill point
- Call for bypass pumps to bypass damaged areas.
- Evaluate the point of failure and estimate required corrective measures.
- Removal of spilled material
- Correct or repair the problem
- Washdown and Disinfect (control washdown water and document disinfectant)
- Remove water used for washdown
- Log all events of response and spill with photographs and written notes.
- Follow notification procedures for unauthorized wastewater discharges as needed.
- Estimate total spill.
- Record and report.

11.3 Air-Vac Valve Response

Air-Vac (AV) valves perform two important functions when mounted at high points on force mains. They allow large quantities of air within the line to be exhausted as that line is being filled. When the air has been vented and the fluid level reaches the air/vacuum valve, the float rises and seals tightly against a seat/valve cover flange. Secondly, in the event of the line being drained, either intentionally or through a fracture in the system, the air/vacuum valve responds to the loss of pressure and opens. This allows air to re-enter the pipeline and prevents a potentially damaging vacuum from developing.

AV Model Specifications

CVWD Collection System is primarily comprised of Vent-O-Mat RGX models; “Anti-Shock” & “Anti-Surge” air release and vacuum break valves.

11.3.1.1 Air-Vac Valve Failure

In the event of an AV failure, the following steps should be taken to respond:

- Evaluate spill problem and determine location of break or leak.
- Contain spill by constructing or excavating containment area in the area of spill.
- Close valve at the main if break is between force main and air relief valve unit,
- Close valve located inside or immediately outside vault if break is at the air relief valve unit.
- Remove spilled material and document disposal location.
- Correct or repair the problem
- Washdown and Disinfect (control washdown water and document disinfectant)
- Remove water used for washdown
- Log all events of response and spill with photographs and written notes.
- Follow notification procedures for unauthorized wastewater discharges.
- Estimate total spill.
- Record and report.

11.4 Sewer Force Mains and Lift Stations Flow Map

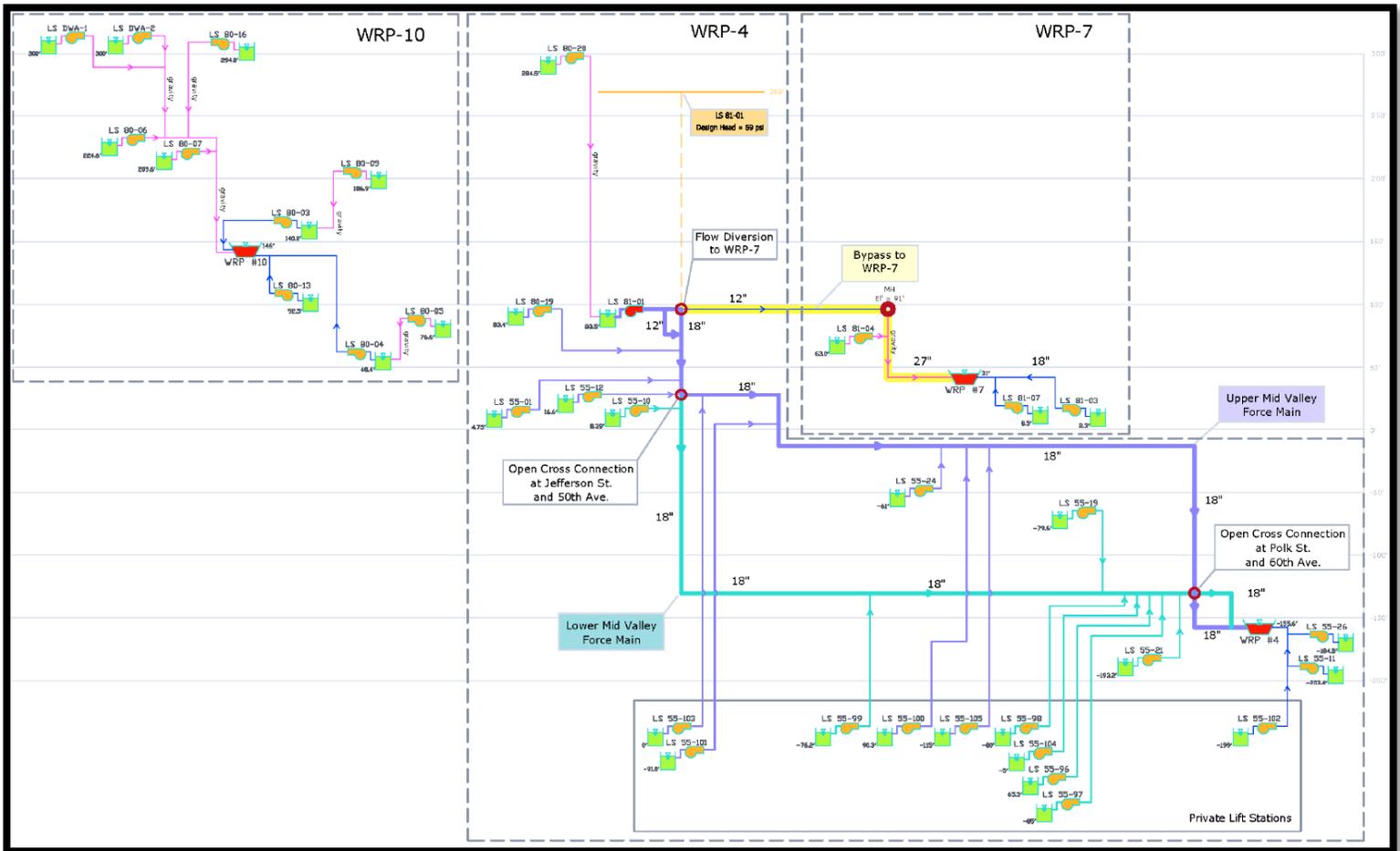


Figure 9 CVWD Pressurized System Flow Diagram and WRP Tributary Distribution

12 Public Notification

12.1 Signage

Signs will be posted, and barricades put in place to keep vehicles and pedestrians away from contact with spilled sewage. Riverside County of Environmental Health instructions and directions regarding placement and language of public warnings will be followed. Additionally, the Supervisor or Manager will use their best judgment regarding supplemental sign placement to protect the public and local environment. Signs will not be removed until directed by Riverside County Environmental Health Services or the Collection System Supervisor or Wastewater Operations Manager.

Rivers, creeks, streams, beaches, or retention basins that have been contaminated as a result of a spill will be posted at visible access locations until the risk of contamination has subsided to acceptable background bacteria levels. Document the number and location of posted signs. The area and warning signs, once posted, will be checked intermittently to ensure that they are still in place. Photographs of sign placement will be taken.

12.2 Post Spill Follow Up

If a sewer spill occurs at night, the location will be inspected first thing the following day. The field crew will look for any signs of sewage solids and sewage-related material that may warrant additional cleanup activities.

12.3 Post Spill Media Outreach

When contact with the local media is deemed necessary, the Communication Manager or their assignee will provide the media with all relevant information in accordance with the CVWD's public information Policy. See Section 7.9 for Communication Manager contact information.

13 Water quality⁷

13.1 Receiving Waters of Concern

The following waters of the State are in CVWD’s sanitary service area:

-  Coachella Valley Storm Water Channel - Whitewater River
-  Coachella Canal
-  Lake Cahuilla
-  Salton Sea



Figure 10 Waters of the State in CVWD

⁷ Ref State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR), Element 6, Attachment A - DEFINITIONS page A-5, Attachment E1 2.3 through 2.4 pages E1-5 through E1-8

13.2 Quality Analysis⁸

Please reference the Environmental Services Department Sanitary Sewer Spill Response Sampling Plan for a comprehensive and up-to-date protocol regarding water quality sampling procedures.

Upon knowledge of a potential discharge to surface water, CVWD response personnel will conduct water quality sampling within 18 hours of initial notification for a Category 1 Spill, defined as an estimated discharge of 50,000 gallons or greater into surface water. CVWD emergency response staff will collect these samples under the oversight of the Environmental Services Department and will complete the Chain of Custody (COC) form before transferring sample ownership to the CVWD Laboratory, Babcock Laboratories, Inc., or any other ELAP-certified laboratory.

13.2.1 Sampling Overview

The CVWD Response staff will collect water quality samples in accordance with the WDR:

Collect one water sample, each day of the duration of the spill, at:

- The DCS-001 location as described in Table 4 (Receiving Water Sampling Locations) below, if sewage discharges to a surface water via a drainage conveyance system; and/or
- Each of the three receiving water sampling locations in section Table 5 (Receiving Water Sampling Locations).
- If the receiving water has no flow during the duration of the spill, the Sewer Collection System personnel must report “No Sampling Due to No Flow” for its receiving water sampling locations.

⁸ *The monitoring protocols required to conform to the Water Board Order No. WQ 2022-0103-DWQ (SSSWDR) and which are implemented through this revised SERP and SSRP Sampling Plan differ from previously applicable requirements that are no longer in effect and are no longer legally binding on CVWD, including, but not limited to, certain provisions set forth in CVWD’s 2015 Settlement Agreement and Mutual Release of Claims with California River Watch. The term of that agreement expired in or about 2019.*

13.2.2 Constituents Sampled

CVWD Laboratory, Babcock Laboratories, Inc. or another contract analytical laboratory shall analyze the collected receiving water samples for the following constituents based on the details described in Order 2022-0103-DWQ:

- a) Ammonia
- b) Appropriate bacterial indicator per Basin Plan:
 - Total Coliform Bacteria
 - Fecal Coliform Bacteria
 - E. coli⁹
 - Enterococcus

Should any CVWD staff encounter access restrictions or unsafe conditions that impede compliance with spill response or monitoring requirements, comprehensive documentation of these restrictions and/or safety hazards must be included in the technical report (refer to Section 17, Monitoring and Reporting Requirements). Examples of conditions that would typically allow for safe access include the absence of a flash flood warning, the lack of storm conditions within the local watershed, and sufficient daylight to confirm the absence of unsafe flow conditions upstream of the sampling locations at the time water sampling is required.

13.2.3 Visual Observations

CVWD staff shall gather and document the following information for spills discharging surface water:

- a) Estimated spill travel to the receiving water.
- b) For spills entering a drainage conveyance system, estimated spill travel time from the point of entry into the drainage conveyance system to the point of discharge into the receiving water.
- c) Estimated spill volume entering the receiving water.
- d) Photography of:
 - Waterbody bank erosion
 - Floating matter
 - Water surface sheen (potentially from oil and grease)
 - Discoloration of the receiving water and
 - Impact to the receiving water

⁹ Per the Water Quality Control Plan for the Colorado River Basin Region dated March 30, 2023, E. coli was determined to be the most reliable indicator bacteria for protecting human health for the Coachella Valley Storm Water Channel.

13.3 Water Sampling Locations

Receiving water samples shall be collected at the following locations. Staff must use their best professional judgment to determine the upstream and downstream distances based on receiving water flow, accessibility to upstream/downstream waterbody banks, and size of visible sewage plume.

13.3.1 Drainage Conveyance System (DCS) Prior to Discharge

Sampling Location	Sampling Location Description
DCS-001	A point in a drainage conveyance system before the drainage conveyance system flow discharges into a receiving water.

Table 4 DCS-001 Prior to Discharge

13.3.2 Receiving Surface Water Sampling (RSW)

Sampling Location	Sampling Location Description
RSW-001: Point of Discharge	A point in the receiving water where sewage initially enters the receiving water.
RSW-001U: Upstream of Point of Discharge	A point in the receiving water, upstream of the point of sewage discharge, to capture ambient conditions absent of sewage discharge impacts.
RSW-001D: Downstream of Point of Discharge	A point in the receiving water, downstream of the point of sewage discharge, where the spill material is fully mixed with the receiving water.

Table 5 RSW-001, Upstream and Downstream

13.3.3 Stream Velocity

If sampling is performed after the spill has stopped, the velocity of the impacted surface water must be determined to estimate spill travel time and select an accurate Downstream sample location. In cases where a water velocity probe is used, the manufacturer's instructions will be followed.

13.3.4 Grab Samples

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

13.3.4.1 Grab Sample Types:

- Grab Sample: 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).
- Surface Grab Sample: 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.

13.3.4.2 Grab Sample Container Preparation:

- 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 into 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).

13.3.4.3 Sample Labeling and Chain of Custody Procedures

At a minimum, the following grab samples will be collected:

- Upstream: A point in the receiving water, upstream of the point of sewage discharge, to capture ambient conditions absent of sewage discharge impacts.
- Source: A point in the receiving water where sewage initially enters the receiving water. See Section 4 for information on determining velocity of the surface water to determine the Source sample location.
- “Downstream” of spill: A point in the receiving water, downstream of the point of sewage discharge, where the spill material is fully mixed with the receiving water. This location will vary with the velocity of the surface water to be sampled.
- A point in a drainage conveyance system before the drainage conveyance system flow discharges into a receiving water.
- Sample labels shall be completed for each sample, using waterproof ink.
- Photos or video of each sample location will be taken using a CVWD issued cell phone. Photos and videos shall include relevant landmarks to identify sampling locations and their surroundings.

13.3.5 Chain of Custody

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 maintain and document sample possession, a Surface Water Sample Chain of Custody (COC) Record must be completed.

13.3.5.1 COC Handling Parameters

A sample is under 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.

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 and are accompanied by a chain of custody (COC) 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.

13.3.6 Sampling Equipment

The following are examples of sampling equipment used by CVWD staff:

- Sampling pole with fixed container
- Sampling pole with removable container
- Sampling pail and rope
- Stream velocity meter
- Grab-n-Go Sample Kit (Located in the CSS Laboratory storage area)
- Field meter(s) with probes for pH, EC, temperature, and Dissolved Oxygen (D.O.)
- Turbidity meter

13.3.6.1 Grab-n-Go Sample Kit

Because sample events for qualifying SSS's cannot be predicted, a Grab-n-Go Sample Kit is prepared so that a sampler team can be deployed within just a few minutes. The Grab-n-Go Sampling Kit includes:

- A copy of the Sampling Plan (ATTACHMENT F)
- Two generic COC forms without the Laboratory Information Management System (LIMS) COC or Sample Identification numbers.
- Safety Data Sheets for preservatives present in sample bottles.
- Sample bottles for required samples.
- Extra sample bottles
- Other personal protective equipment (PPE) and any miscellaneous materials required to perform the sampling.

13.3.7 Sampling 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 in-compatible 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 procedures for the sample types and sampling equipment (other than sample bottles, which are provided to the response crew in a “ready to be used” condition by the lab) used at CVWD may be summarized as follows:
 - Physical removal
 - Tap water rinse
 - Air dry

13.4 Surface Water Sampling Standard Operating Procedures

The Sanitary Sewer Spill Response Plan Sampling Plan, administered by the Environmental Services Department, outlines detailed, step-by-step procedures for the collection and submission of samples for laboratory analysis, ensuring compliance with State Water Board Order No. WQ 2022-0103-DWQ, Element 6.

13.4.1 Sample Location and Identification Procedures

Samples will be collected by CVWD spill response personnel. It is impossible to establish hard and fast rules concerning sampling locations. However, the following general guidelines should be applied whenever surface waters are sampled:

- The sampling location should be far enough upstream or downstream of confluences or point sources so that the surface water and spill volume is well mixed. Natural turbulence can be used to provide a good mixture.
- 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.
- 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.

13.4.2 Follow Up Sampling

Sampling will be repeated every 24 hours, or as directed by the Regional Water Quality Control Board (RWQCB) or the Riverside County Environmental Health Services, until such time as one of the following criteria have been met:

- Riverside 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.

13.5 Post Sampling Procedures

Once all samples have been collected, the samples will be delivered to CVWD’s laboratory at the Palm Desert location. To ensure that the hold times are met, subject to CVWD laboratory’s hours of operation, samples need to be delivered to CVWD’s laboratory within **six (6) hours** of the earliest bacteriological sample’s sample collection time.

Continued the next page.

On weekends and holidays, CVWD laboratory’s hours of operation are limited for sample drop offs. Please refer to lab staff’s email prior to weekend/holiday for specific times laboratory will be open on those days. CVWD’s laboratory will analyze the bacteriological samples at earliest available laboratory hours of operation and CVWD’s contract laboratory will analyze the ammonia sample.

CVWD’s laboratory staff will handle releasing the ammonia sample to the contract laboratory, currently Babcock Laboratories Inc., on the next available business day.

CVWD Laboratory Contact	Babcock Laboratories, Inc. Contact
<p>Wil Gonzalez, Laboratory Director</p> <ul style="list-style-type: none"> • Phone: (760) 398-2651 ext. 2235 • Cell: (760) 895-0746 • Email: WGonzalez@cvwd.org <p>Address: 75-519 Hovley Lane East Palm Desert, CA 92211</p>	<p>Kayelani Marshall, Project Manager</p> <ul style="list-style-type: none"> • Phone: (951) 653-3351 ext. 163 • Email: KMarshall@babcocklabs.com <p>Alexis Harold, Project Manager</p> <ul style="list-style-type: none"> • Phone: (951) 653-3351 ext. 124 <p>Email: AHarold@babcocklabs.com</p> <p>Deanna Tillman, Assistant Project Manager</p> <ul style="list-style-type: none"> • Phone: (951) 653-3351 ext. 125 • Email: DTillman@babcocklabs.com <p>Address: Babcock Laboratories, Inc. 6100 Quail Valley Court Riverside, CA 92507</p> <p>Phone: (951) 653-3351</p>

Table 6 CVWD and Contracted Laboratories Contact Information

13.5.1 Sampling Safety and Access Restrictions

If the Sewer Collections staff encounters access restrictions or unsafe conditions that prevents compliance with spill response requirements or monitoring requirements in State Water Board Order No. WQ 2022-0103-DWQ, the Department shall provide documentation of access restrictions and/or safety hazards in the corresponding required report. 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.

13.5.1.1 Reasonable Self-Determined Hazardous Field Condition

- Working during lightning storms;
- In heavy or poisonous vegetation (e.g. poison oak);
- Near aggressive wildlife, domestic animals, or persons;
- Traversing steep or rugged terrain;
- Unstable slopes or creek banks;
- Near swiftly moving water or potential flash flood conditions;
- During snowy or wet weather is not considered "normal risk."

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.

If any member of the CVWD sampling 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 onsite field supervisor or their supervisor. Fieldwork should be postponed if there is indication that engagement in the field activity could cause bodily harm. A job safety analysis will be performed to provide support to the determined field conditions.

13.5.1.2 Sampling PPE

The person taking the samples must have adequate protection, including protective clothing. They must wear gloves, as protection against chemical and/or bacteriological hazards. The type of gloves worn shall be determined by the sampling circumstance.

13.5.1.3 Sampling Traffic Safety

- 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.

13.5.1.4 Drowning Hazard

When in a boat or wading in a stream and where the danger of drowning exists, a personal flotation device shall be worn at all times in addition to following the other requirements of Title 8 CCR 1602 Working Over or Near Water. Other protective measures shall be taken in accordance with CVWD safety procedures.

13.5.1.5 Fieldwork Sampling Guidelines

The following guidelines apply to all fieldwork by CVWD 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., traffic safety vests, life preservers, gloves, goggles, etc.)
- Field sampling crews should consist of at least two members unless otherwise approved by a supervisor or manager.
- 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.
- 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 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.
- Streams will not be entered unless the responding employees have the necessary protective footwear (e.g. rubber boots, waders) and the footwear does not pose an additional risk to worker safety (e.g. waders filling with water if the employee slips in the stream).
- Streams will not be entered if deemed unsafe to do so by the most senior employee on the responding crew and if entered, will only be done so in accordance with Title 8 CCR Section 1602 Work Over or Near Water.

14 Spill categories

The California Regional Water Quality Control Board's (RWQCB) Monitoring and Reporting Program mandates government response and notification for unauthorized discharges, specifically sanitary sewer spills (SSS), originating from sanitary sewage collection and treatment systems. Adherence to timely notification and reporting protocols enables government agencies to implement prompt measures to safeguard the environment and public health. The notification and reporting procedures detailed herein delineate the required steps for Coachella Valley Water District (CVWD) personnel to assess unauthorized discharge incidents and ensure compliance with all applicable notification and reporting mandates.



Figure 11 Type of Spills

14.1 Types of Spills

14.1.1 Off-Site Sanitary Sewer Spill

Spills can occur off-site, within the collection system, and include the unauthorized discharge of untreated or partially treated wastewater. Examples of an off-site spill include sewage discharged from a maintenance hole, air relief valve, or lift station along CVWD’s sanitary sewer collection system.

14.1.2 On-Site Sewer Spill

Spills can occur on-site, at one of the five CVWD WRPs. The unauthorized discharge of waste from a WRP includes any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into surface waters or drainage channels, which is not permitted or authorized by a regulatory agency. A spill includes an unauthorized discharge to land, which poses a public health threat and any noncompliance of which may endanger human health or the environment.

14.1.3 Sewer Spill Categories

14.1.3.1 Category 1 Spill

A Category 1 spill is a spill of any volume of sewage from or caused by a sanitary sewer system regulated under this General Order that results in a discharge to:

- A surface water, including a surface water body that contains no flow or volume of water; or
- A drainage conveyance system that discharges to surface waters or Municipal Storm Sewer System (MS4¹⁰), when the sewage is not fully captured and returned to the sanitary sewer system or disposed of properly.
- Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility.
- A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water is a Category 1 spill.

14.1.3.2 Category 2 Spill

- A Category 2 spill is a spill of 1,000 gallons or greater, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.
- A spill of 1,000 gallons or greater that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system, is a Category 2 spill.

14.1.3.3 Category 3 Spill

- A Category 3 spill is a spill of equal to or greater than 50 gallons and less than 1,000 gallons, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.
- A spill of equal to or greater than 50 gallons and less than 1,000 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 3 spill.

14.1.3.4 Category 4 Spill

- A Category 4 spill is a spill of less than 50 gallons, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.
- A spill of less than 50 gallons that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 4 spill.

¹⁰ *Municipal Separate Storm Sewer System (MS4) Contacts, SERP Stormwater Collaboration, Section 19.2 MS4 Contact List*

14.1.4 Hazardous Material Chemical Spill¹¹

CVWD staff will adhere to the procedures outlined in the California Hazardous Material Spill/Release Notification Guidance Worksheet, managed by the California Office of Emergency Services (Cal-OES). For further direction and guidance, CVWD staff may contact the Environmental Safety Specialist by email JOzimek@cvwd.org or phone (760) 398-2661, 2775.

This section outlines procedures for identifying and reporting hazardous material spills. Reportable spills, including oil spills ≥ 1 barrel, discharges impacting state waters or water quality, radioactive materials, and releases causing injury, require immediate notification following the CVWD SSMP-SERP and Emergency Response Plan, including OES notification at (800) 852-7550. Non-reportable spills (oil < 1 barrel not reaching water, non-hazardous releases with no impact) require notification to CVWD's Environmental Safety Specialist the next business day.

Notifications for reportable spills must be made to the Local Emergency Response Agency (9-1-1), the CUPA/AA/PA ((951) 358-5055), the California State Warning Center (1-800-852-7550 or (916) 845-8911), and the California Highway Patrol (9-1-1) for highway spills. Specific information required for reporting includes caller identity, spill location/time, affected waterways, substance/quantity, chemical name (if extremely hazardous), incident description, impacted media, release duration, precautions, health risks, and contact information. Additional federal reporting requirements for CERCLA chemicals exceeding thresholds may apply (refer to the California Hazardous Material Spill/Release Notification Guidance Worksheet).

This guidance summarizes pertinent emergency notification requirements for hazardous chemical spills and all significant releases of hazardous materials only. For precise legal requirements, review specific laws and regulations refer to the Safe Drinking Water and Toxic Enforcement Act of 1986, better known as Proposition 65, and §9030 of the California Labor Code for additional reporting requirements. A quick overview is provided as follows:

- Identify Type of Hazardous Material Spill
- Chemical Spill Notification Procedures
- Notification must be given to the required agencies identified in the California Hazardous Material Spill/Release Notification Guidance Worksheet
- Required Information to Report¹²

¹¹ *Spill Release Reporting*: <https://www.caloes.ca.gov/office-of-the-director/operations/response-operations/fire-rescue/hazardous-materials/spill-release-reporting/>

¹² *Written Reporting of Emergency Releases*: <https://www.caloes.ca.gov/wp-content/uploads/Fire-Rescue/Documents/304-Written-Report-Form.pdf>

14.2 Notification Processes

Notification Order of Regulatory Agencies for contact information:

Table 7 Notification Order of Regulatory Agencies

Agency	Telephone Number	Notes
Office of Emergency Services (OES) ¹³	(800) 852-7550 (from CA)	OES will provide an incident number
Regional Water Quality Control Board (RWQCB)	(760) 346-7491	Leave message after hours (location, volume, OES No.)
County Health Officer	(951)358-5172 (business hours) (951)782-2968 (after hours) (800)304-6100 (backup no.)	Leave a message after hours. Call backup No. if not able to leave message.
California Highway Patrol	911	Only if State Highway is involved

14.2.1 Recycled Water Discharge Notification

Discharge of wastewater treated to a disinfected tertiary 2.2 recycled water standard (non-potable/recycled water) constitutes a non-reportable spill and, therefore, does not require formal reporting. However, notification of the CVWD Non-Potable Water Manager or a senior member of the Non-Potable Department staff is recommended. Refer to ATTACHMENT J for an email from the SWRCB providing clarification on this reporting procedure, consistent with California Water Code Division 7, Chapter 7, Article 4, Section 13529.2¹⁴.

14.2.2 Voluntary Notification

14.2.2.1 Privately-Owned Sewer Lateral or System

Upon observing or acquiring knowledge of any of the following from a private sewer lateral or private sanitary sewer system that is not owned/operated by the Enrollee, the Enrollee is encouraged to notify the California Office of Emergency Services (as provided by Health and Safety Code section 5410 et. seq. and Water Code section 13271), or inform the responsible party that State law requires such notification to the Office of Emergency Services by any person that causes or allows a sewage discharge to waters of the State:

- Spill equal to 1,000 gallons or more that discharges (or has a potential to discharge) to waters of the State, or a drainage conveyance system that discharges to waters of the State;
- Spill of any volume to surface waters.

¹³ CALOES Reporting Sewage Releases: <https://www.caloes.ca.gov/wp-content/uploads/Fire-Rescue/Documents/Sewage-Fact-Sheet.pdf>

¹⁴ Regulation of Reclamation: https://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=WAT§ionNum=13529.2.&article=4.&highlight=true&keyword=tertiary%202.2

14.2.2.2 Sewer Lateral Responsibility¹⁵

Maintenance and repair of the full length of the Private Sewer Lateral is the responsibility of the property owner. The portion of the Private Sewer Lateral that extends beyond the property line (referred to as “Street Sewer Lateral” per CVWD Code) in the public right of way is also the owner’s responsibility to maintain and repair.

¹⁵ Ref. CVWD Code 4.05.070 Street Sewer Laterals: <https://cwwd.district.codes/CVWDC/4.05.070>

14.2.3 Off-Normal Hours Notification Procedures

When any spill has occurred during off-normal hours, the assigned standby staff shall send notification of the spill during the next business day by sending an email, at a minimum, to the Collection Systems Supervisor, Wastewater Operations Manager, and the Assistant Director of Operations - Sanitation.

- Attach the information recorded in the Spill Response Workbook (SRW), Spill Information Field Notes Log Sheet (ATTACHMENT B).
- Within twenty-four (24) hours after becoming aware of a spill that entered a drainage channel or surface water, complete and submit the certification form provided in ATTACHMENT E to the Regional Water Quality Control Board (RWQCB).
- Operations - Sanitation staff will submit the required spill report and the Wastewater Operations Manager, or designated LRO will certify the online report in California Integrated Water Quality System (CIWQS) within the timeframe required.
- Operations - Sanitation staff will update CVWD's sewer spill databases.
- Operations - Sanitation staff will complete a written "Unauthorized Wastewater Discharge Report".

Notify regulatory agencies in the order shown by telephone as soon as:

- Have knowledge of the spill.
- Notification is possible, and
- Notification can be provided without substantially impeding cleanup or other emergency measures.

14.2.3.1 Category 1 Spill Off Normal Hour Notification

Within two (2) hours: Notify Cal OES at (800) 852-7550 or 916-845-8911 (direct) within two hours of becoming aware of a Category 1 Spill discharging of which has discharged to surface water or is threatening to discharge to surface waters. Refer to *Table 7 CAL-OES Spill Information Matrix* during phone call to relate accurate information to appropriate staff. Complete the Spill Report Form and the SRW.

14.2.3.2 Category 2 Off Normal Hour Notification

Within two (2) hours: Notify Cal OES at (800) 852-7550 or 916-845-8911 (direct) within two hours of becoming aware of a Category 2 Spill threatening to discharge to surface waters. Refer to *Table 7 CAL-OES Spill Information Matrix* during phone call to relate accurate information to appropriate staff. Complete the Spill Report Form and the SRW.

14.2.3.3 Category 3 Off Normal Hour Notification

No after-hours regulatory agency notification is required.

14.2.3.4 Category 4 Off Normal Hour Notification

No after-hours regulatory agency notification is required.

14.2.3.5 Environmental Services Off Normal Hour Report Notification

Operations-Sanitation or activated standby staff, as appropriate, shall notify Environmental Services of spill as soon as possible if sampling is required. If sampling is not required, make notification of any spill during the next business day by sending an email to Director of Environmental Services and Water Quality Supervisor.

- Record whether sampling was performed or not in the Spill Response Worksheet of the Spill Response Workbook (SRW) – Regulatory Reporting Notification Log; attach results, if any.

14.2.3.6 Private System Off Normal Hour Report Notification

For a private lateral SSS, notify by telephone as soon as possible, the property owner and the appropriate City or County representative within MS4 jurisdiction (see list in ATTACHMENT J) and provide the information from Spill Response Worksheet of the SRW – Regulatory Reporting Notification Log: location, start and end time, source (manhole, pump station, etc.), estimated gallons, cause, response procedures performed.

- If the spill is known to be greater than 1,000 gallons or reaches a drainage channel or surface water, let the owner and/or City or County representative know that they need to notify the OES and RWQCB immediately (within 24 hours of becoming aware of the circumstances).
- If the spill is known to have reached a state highway, let the owner and/or City or County representative know that they need to contact the Highway Patrol.
- Emergency Coordinator or IC may report a private lateral spill to CIWQS. Reporting private lateral spills into CIWQS is optional.

Agency notification must occur within 24 hours after becoming aware of a spill. Use the information in the SRW above to respond to agency questions. Post spill, record available spill information in the Spill Response Workbook, Spill Response Form for reporting requirements.

14.3 Spill Detection Procedures

The processes that are employed to notify CVWD of the occurrence of a spill include: observation by the public, receipt of an alarm, contractor reported or observation by CVWD staff during the normal course of their work.

14.3.1 Public Observations

Public observation is the most common way that CVWD is notified of blockages and spills. Contact numbers and information for reporting sewer spills and backups are on CVWD's website:

CVWD's Customer Service telephone number is (760) 391-9600.

- CVWD has staff on call to respond to emergencies 24-hours a day, 7 days a week. To report a water or sewer emergency, the public is directed to contact Control or an available Customer Service Representative (CSR) during regular business hours.
- Staff within other Departments and Divisions of CVWD are educated on a recurring basis about the importance of immediate voice reporting of sewer spills to the appropriate staff of the Sanitation Department.

14.3.1.1 Receiving Incoming Public Call

When calls are received by the Sanitation Staff, either during normal work hours or after hours, the individual receiving the call will collect and include in the spill event file, at a minimum, the following information to record the complaint:

- Date, time, and method of notification,
- Date and time the complainant first noticed the spill, if available,
- Narrative description of the complaint, including any information the caller provided regarding whether the spill has reached surface waters or a drainage conveyance system, if available,
- Complainant's contact information, if available, and
- Final resolution of the complaint.

Every reported sewage spill affecting public or private property within CVWD's service area shall be immediately investigated by CVWD field staff. Telephone calls to report sewer spills or other maintenance problems are answered 24 hours per day, 7 days per week.

If the spill or backup is not in CVWD's service area the individual receiving the call provides the customer with the contact information for the responsible agency, and then notifies that agency.

If the complaint is not a spill, the crew members' findings and actions taken, if any, are logged into CVWD's, NEXGEN Asset Management Software, using electronic field equipment, if available. If electronic field equipment is not available, the information will be entered into the NEXGEN when the employee returns to headquarters.

14.3.2 Contractor Observations

Contractors working for CVWD will be informed of required spill response procedure details during planning and development of a CVWD project by Engineering and Operations. The following procedures are to be followed if a contractor causes or witnesses a sanitary sewer spill. If the contractor causes or witnesses a spill they should:

- Immediately notify CVWD at and provide the following information if available:
 - Date and time contractor first noticed the spill.
 - Description of the contractor's observation, including any information regarding whether the spill has reached surface waters or a drainage conveyance system.
 - Contractor's contact information
- Protect the public and Protect storm drains.
- Direct ALL media and public relations requests to the Collections System Supervisor, Wastewater Operations Manager, and the Director of Communications.

14.3.3 No Spill Witness

If there are no witnesses or no calls received for a spill, CVWD staff will contact nearby residences or business owners in the vicinity of the spill, to obtain information that brackets a given start time that the spill began. This information will be collected and documented in the Sanitary Sewer Spill Report, Regulatory Reporting Notification Log of the Spill Response Workbook.

14.3.4 CVWD Staff Observations

CVWD staff conducts periodic inspections of its sewer system facilities as part of the preventative maintenance program. Any problems noted with the sewer system facilities are reported to appropriate CVWD staff that, in turn, respond to emergency situations. Work orders are issued to correct non-emergency conditions.

14.4 Notification Technology

CVWD technology is used to prevent spills at WRPs and Sanitary Sites, alarms can provide time for staff to transfer wastewater via vacuum pump trucks or mobile pumps to a nearby sanitary sewer maintenance holes or bypassed into the sanitary sewer system downstream.

14.4.1 Alarm Management

The purpose of the alarm system is to notify the Control Operators and other CVWD personnel of abnormal situations requiring timely operator action and to direct their attention so that they can take corrective action and prevent undesired consequences. The alarm system must be designed for effective handling of a single alarm during normal operation to several alarms during a major plant upset or other emergency event.

14.4.1.1 Alarm Management Program

Managed by Operations Supervisory Control Staff:

- Pertains to all personnel involved in the design, implementation, operation, maintenance, and modification of new and existing alarm systems.
- Intended for both in-house use and contractor use.
- Alarms are evaluated by the Alarm Management Committee.

14.4.2 SCADA and Remote Alarm Systems

- AVEVA SCADA System is the primary SCADA System used at all CVWD Facilities.
- GE Cimplicity SCADA systems are in use at WRP 4, WRP 7, and WRP 10 as Local HMI's (Human Machine Interface).
- LIMS system (Laboratory Information Management System)
- SmartCover® Systems

14.4.2.1 Lift Station Alarms

CVWD operates twenty-seven (27) wastewater lift stations which are equipped with continuously monitored level sensors and/or auto dialers. Thresholds for High and Low water set points are set in place to notify CVWD personnel in the event of a lift station failure. In the event of failure, the SCADA system will alert, and a call will be made to the respective On-Call Standby operator. To prevent spills, wastewater from the wet well can either be pumped into a vacuum truck for disposal to a nearby sanitary sewer maintenance hole or bypassed around the station into the sanitary sewer system by Collection System standby response crew.

14.4.2.2 Manhole Remote Monitoring System

The CVWD manhole remote monitoring system is a web-based smart technology that provides real-time remote sewer overflow monitoring via a reliable satellite communications system. Field units are installed on the underside of existing maintenance hole covers and can be moved to various locations as monitoring needs change.

15 Monitoring and Reporting Requirements

The Coachella Valley Water District (CVWD) is mandated by the Regional Water Quality Control Board (RWQCB) to submit reports electronically via email and by the State Water Resources Control Board (SWRCB) to submit electronically through the California Integrated Water Quality System¹⁶ (CIWQS) online portal.

Notify Environmental Services of the spill during the next business day by sending an email to the Director of Environmental Services and Water Quality Supervisor, with a courtesy copy (CC) to, at a minimum, the Assistant Director of Sanitation, the Wastewater Operations Manager, and the Collection Systems Supervisor. The Spill Response Worksheet shall be attached to this notification.

15.1 RWQCB Reporting

Upon becoming aware of a sewage or recycled water discharge that has entered a drainage channel or surface water, certification forms (provided in ATTACHMENT E) must be completed and submitted to the RWQCB within twenty-four (24) hours via one of the following methods:

- Email the form to:
 - reginald.tan@waterboards.ca.gov
 - Jose.Figueroa-Acevedo@waterboards.ca.gov
- Fax the form to: (760) 341-6820

The attached form (ATTACHMENT E) also includes List of Permits for CVWD WRP's and contact information for the Whitewater River Region Principal Permittees:

- Riverside County Flood Control District & Water Conservation District
- County of Riverside
- Colorado River Basin Regional Water Quality Control Board
- Whitewater River Region NPDES Contacts

¹⁶ *CIWQS Fact Sheet:*

https://www.waterboards.ca.gov/water_issues/programs/ciwqs/docs/ciwqs_factsheet.pdf

15.2 CIWQS Reporting

All reporting mandated by State Water Board Order No. WQ 2022-0103-DWQ¹⁷ shall be submitted electronically via the California Integrated Water Quality System¹⁸ (CIWQS) database, with the exception of recycled water reporting, which does not require CIWQS submission.

Section 15.3, Reporting Requirements, including Table 8-11, outlines a summary of required reports and their corresponding submission timeframes. Compliance with these reporting obligations necessitates enrollment and approval as a user within CIWQS, requiring the acquisition of a personal username and password.

15.2.1 Authorized Staff Designation

The detailed designation requirements for authorized staff are specified within the Coachella Valley Water District (CVWD) Sewer System Management Plan¹⁹ (SSMP), Chapter 2, "Organization," under the subsection "Authorized Staff." Please refer to this section for comprehensive information.

The roles and responsibilities of authorized personnel regarding data submission and certification are outlined below:

- **Data Submitters (DS):** Individuals authorized to submit data for emergency response incidents, inspections, or work completion activities include direct supervisors, crew leaders, and coordinators of the relevant emergency response crew.
- **Legally Responsible Official (LRO):** A designated LRO may also perform data submission duties as needed and certify all sanitary sewer spills and required updates/reporting is the Wastewater Operations Manager, with the following order of succession:
 - Assistant Director of Operations, Sanitation
 - Director of Environmental Services
 - Engineering Manager
 - Assistant General Manager, Operations and Maintenance

¹⁷ State Water Board Order No. WQ 2022-0103-DWQ:

https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo_2022-0103-dwq.pdf

¹⁸ California Integrated Water Quality System: <https://ciwqs.waterboards.ca.gov/>

¹⁹ CVWD Sewer System Management Plan - <https://www.cvwd.org/213/Sewer-System-Management-Plan-SSMP>

15.2.2 CIWQS Unauthorized Wastewater Discharge Report's

California Integrated Water Quality System (CIWQS) entry forms, "Unauthorized Wastewater Discharge Report's" have been saved into Coachella Valley Water District's (CVWD) electronic files.

- Past spill documents are available as a reference in efforts to become acquainted with the required information before entering new spill data into the official CIWQS site.

CVWD personnel will utilize the Spill Response Workbook (SRW), provided as ATTACHMENT B of this Spill Emergency Response Plan (SERP), to record spill details in the field. This information will then be transcribed onto the official Spill Report Form and attached to a CVWD Incident Report for filing.

Upon completion, the electronic form should be saved to the designated folder for the current year (e.g., 20XX SSS). A printed copy may be retained for reference during the subsequent data entry process on the CIWQS website.

15.2.3 CIWQS Electronic Reporting Overview

Electronic reporting or data submission may solely be conducted by a Legally Responsible Official and Data Submitter(s), as required in Section 5.8 (Designation of Data Submitters) of the State Water Board Order No. WQ 2022-0103-DWQ²⁰.

- The Data Submitter shall review and/or complete the Unauthorized Wastewater Discharge Report in CIWQS.
- The Wastewater Operations Manager or designated LRO shall certify the Unauthorized Wastewater Discharge Report in CIWQS.
- Operations - Sanitation staff will update CVWD's sanitary sewer spill and Illegal Connection/Illegal Discharge (IC/ID) databases.

In the event CIWQS is not available, all required information must be reported in the appropriate timeframe using email or FAX: CIWQS@waterboards.ca.gov or 866-792-4977.

²⁰ State Water Board Order No. WQ 2022-0103-DWQ:
https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo_2022-0103-dwq.pdf

15.3 Reporting Requirements

15.3.1 Reporting Category 1

- Spills-to-Surface Waters

Table 8 Spill Category 1 Report Requirements

Spill Requirement	Due	Method
Notification	Within two (2) hours of CVWD’s knowledge of a Category 1 spill of 1,000 gallons or greater, discharging or threatening to discharge to surface waters notify the California Office of Emergency Services and obtain a notification control number.	California Office of Emergency Services at: (800) 852-7550 (Section 1 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))
Monitoring	<ul style="list-style-type: none"> • Conduct spill-specific monitoring; • Conduct water quality sampling of the receiving water within 18 hours of initial knowledge of spill of 50,000 gallons or greater to surface waters. 	(Section 2 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))
Reporting	<ul style="list-style-type: none"> • Submit Draft Spill Report within three (3) business days of CVWD’s knowledge of the spill; • Submit Certified Spill Report within 15 calendar days of the spill end date; • Submit Technical Report within 45 calendar days after the spill end date for a Category 1 spill in which 50,000 gallons or greater discharged to surface waters; and • Submit Amended Spill Report within 90 calendar days after the spill end date. 	<p>(Section 3.1 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))</p> <p>Section 17.8 Spill Technical Report of this SERP</p>

15.3.2 Reporting Category 2 Spills

- 1,000 Gallons or Greater That Do-not-Discharge to Surface Waters

Table 9 Spill Category 2 Report Requirements

Spill Requirement	Due	Method
Notification	Within two (2) hours of CVWD’s knowledge of a Category 2 spill of 1,000 gallons or greater threatening to discharge to waters of the State: Notify California Office of Emergency Services and obtain a notification control number.	California Office of Emergency Services at: (800) 852-7550 (Section 1 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))
Monitoring	Conduct spill-specific monitoring.	(Section 2 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))
Reporting	<ul style="list-style-type: none"> • Submit Draft Spill Report within three (3) business days of CVWD’s knowledge of the spill; • Submit Certified Spill Report within 15 calendar days of the spill end date; and • Submit Amended Spill Report within 90 calendar days after the spill end date. 	(Section 3.2 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))

15.3.3 Reporting Category 3 Spills

- Spills of Equal or Greater than 50 Gallons and Less than 1,000 Gallons That Does Not Discharge to Surface Waters, 1000 Gallons or Greater That Do-not-Discharge to Surface Waters.

Table 10 Spill Category 3 Report Requirements

Spill Requirement	Due	Method
Notification	Not Applicable	Not Applicable
Monitoring	Conduct spill-specific monitoring.	(Section 2 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))
Reporting	<ul style="list-style-type: none"> • Submit monthly Certified Spill Report to the online CIWQS Sanitary Sewer System Database within 30 calendars days after the end of the month in which the spills occur; and • Submit Amended Spill Reports within 90 calendar days after the Certified Spill Report due date. 	(Section 3.3 and 3.5 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))

15.3.4 Reporting Category 4 Spills

- Spills Less Than 50 Gallons That Do Not Discharge to Surface Waters.

Table 11 Spill Category 4 Report Requirements

Spill Requirement	Due	Method
Notification	Not Applicable	Not Applicable
Monitoring	Conduct spill-specific monitoring.	(Section 2 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))
Reporting	<ul style="list-style-type: none"> • If, during any calendar month, Category 4 spills occur, certify monthly, the estimated total spill volume exiting the sanitary sewer system, and the total number of all Category 4 spills into the online CIWQS Sanitary Sewer System Database, within 30 days after the end of the calendar month in which the spills occurred. • Upload and certify a report, in an acceptable digital format, of all Category 4 spills to the online CIWQS Sanitary Sewer System Database, by February 1st after the end of the calendar year in which the spills occur. 	(Section 3.4, 3.6, 3.7 and 4.4 of Attachment E1 of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR))

15.4 Amended Spill Reports

Within 90 calendar days of the certified Spill Report due date, the CVWD's data submitter may update or add additional information to a certified Spill Report by amending the report or by adding an attachment to the Spill Report in the online CIWQS Sanitary Sewer System Database. The CVWD's LRO shall certify the amended report.

After 90 calendar days, the CVWD's data submitter shall contact the State Water Board at SanitarySewer@waterboards.ca.gov to request to amend a certified Spill Report. The LRO shall submit justification for why the additional information was not reported within the 90-day timeframe for amending the certified Spill Report, as provided above.

15.5 Monthly Certified Spill Reports

The designated data submitter from the CVWD department where a spill originates, in collaboration with the Collection Systems Supervisor and the Wastewater Operations Manager, will prepare a draft spill report. To ensure monthly compliance, the Wastewater Operations Manager, or in their absence a delegated Legally Responsible Official (LRO) as outlined in the Authorized Staff section of Chapter 2 (Organization) within the Sanitary Sewer Management Plan (SSMP), shall certify the estimated total spill volume discharged from the sanitary sewer system and the total count of all Category 4 spills. This certification must be submitted electronically to the online California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database within 30 calendar days following the end of the month in which the spills occurred.

15.6 Annual Certified Spill Reporting

For all Category 4 spills and spills from its owned and/or operated laterals that are caused by a failure or blockage in the lateral and that do not discharge to a surface water, the Department Sewer Collections personnel shall:

- Maintain records per section 4.4. of Attachment E1 (Notification, Monitoring, Reporting and Record-keeping Requirements) of State Water Board Order No. WQ 2022-0103-DWQ. The Department shall provide records upon request from the State Water Board or Regional Water Board staff.
- Annually upload and certify a report, in an appropriate digital format, of all recordkeeping of spills to the online CIWQS Sanitary Sewer System Database, by February 1st after the end of the calendar year in which the spills occurred.

A spill from a CVWD-owned and/or operated lateral that discharges to a surface water is a Category 1 spill; the Department's data submitter shall report all Category 1 spills per section 3.1 of Attachment E1 (Notification, Monitoring, Reporting and Recordkeeping Requirements) of State Water Board Order No. WQ 2022-0103-DWQ.

15.7 Monthly Certification

For months with either no sanitary sewer spills or only "No-Spills" (also referred to as "Category 4 Spills") and/or spills from city-owned/operated laterals that did not reach surface water ("Non-Category 1 Lateral Spills"), the designated Legally Responsible Official (LRO), primarily delegated to the Wastewater Operations Manager, must certify this in the online CIWQS Sanitary Sewer System Database within 30 days after the end of that month. This certification will be either a "No-Spill" statement or a "Category 4 Spills and/or Non-Category 1 Lateral Spills" statement, indicating that any such spills will be reported annually.

- If a spill starts in one calendar month and ends in a subsequent calendar month, and cvwd has no further spills of any category, in the subsequent calendar month, the designated LRO shall certify "no-spills" for the subsequent calendar month.
- If CVWD has no spills during a calendar month, but the Department voluntarily reported a spill from a private lateral or a private system, the designated LRO shall certify "no-spills" for that calendar month.
- If the Department has spills from its owned and/or operated sewer laterals during a calendar month, the designated LRO shall not certify "no spills" for that calendar month.

15.8 Spill Technical Report

Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, State Water Resources Control Board Order No. 2022-0103-DWQ:

For any spill event resulting in a discharge of 50,000 gallons or more into a surface water body, the designated Legally Responsible Official (LRO) is required to submit a comprehensive Spill Technical Report to the online CIWQS Sanitary Sewer System Database within 45 calendar days of the spill cessation date.

At a minimum, this report must encompass the following information:

- Complete and detailed explanation of how and when the spill was discovered;
- Photographs illustrating the spill origin, the extent and reach of the spill, drainage conveyance system entrance and exit, receiving water, and post-cleanup site conditions;
- Diagram showing the spill failure point, appearance point(s), the spill flow path, and ultimate destinations;
- Detailed description of the methodology employed, and available data used to calculate the discharge volume and, if applicable, the recovered spill volume;
- Detailed description of the spill cause(s);
- Description of the pipe material, and estimated age of the pipe material, at the failure location;
- Description of the impact of the spill;
- Copy of original field crew records used to document the spill; and
- Historical maintenance records for the failure location.

CVWD's response to the spill:

- Chronological narrative description of all actions taken by CVWD to terminate the spill;
- Explanation of how the Sewer System Management Plan Spill Emergency Response Plan was implemented to respond to and mitigate the spill; and
- Final corrective action(s) completed and a schedule for planned corrective actions, including:
- Local regulatory enforcement action taken against an illicit discharge in response to this spill, as applicable,
- Identifiable system modifications, and operation and maintenance program modifications needed to prevent repeated spill occurrences, and
- Necessary modifications to the Emergency Spill Response Plan to incorporate lessons learned in responding to and mitigating the spill.

Water Quality Monitoring, including at minimum:

- Description of all water quality sampling activities conducted;
- List of pollutant and parameters monitored, sampled and analyzed;
- Laboratory results, including laboratory reports;
- Detailed location map illustrating all water quality sampling points; and
- Other regulatory agencies receiving sample results (if applicable).

Evaluation of spill impact(s), including a description of short-term and long-term impact(s) to beneficial uses of the surface water.

16 Recordkeeping

All spill-related information documented in support of this Spill Emergency Response Plan (SERP) will be retained for a period of five years.

16.1 Post Spill Assessment of Spill Response Activities²¹

Every spill event is an opportunity to evaluate Coachella Valley Water District (CVWD) adherence to response and reporting procedures and effectiveness of the response. Each spill event is unique, with its own elements and challenges including volume, cause, location, terrain, climate, and other parameters.

As soon as possible after spill events all the participants, from the person who received the call to the last person to leave the site, will meet to review the procedures used and to discuss what worked and where improvements could be made in responding to and mitigating future spill events. The results of the debriefing will be documented and tracked to ensure the action items are completed as scheduled. See ATTACHMENT D for the required post spill assessment procedures.

16.1.1 Failure Analysis Investigation

The objective of the failure analysis investigation is to determine the “root cause” of the spill and to identify corrective action(s) needed that will reduce or eliminate future potential for the spill to recur or for other spills to occur.

The investigation will include reviewing all relevant data to determine appropriate corrective action(s) for the line segment. The investigation may include:

- Reviewing and completing the Sanitary Sewer Spill Report and any other documents related to the incident.
- Reviewing the incident timeline and other documentation regarding the incident.
- Reviewing communications with the reporting party and witness.
- Reviewing volume estimate, volume recovered estimate, volume estimation assumptions and associated drawings
- Reviewing available photographs
- Interviewing CVWD staff that responded to the spill
- Reviewing past maintenance records
- Reviewing past CCTV records,
- Conducting a CCTV inspection to determine the condition of all line segments immediately following the spill and reviewing the video and logs,
- Reviewing any Fats, Roots, Oils and Grease (FROG) related information or results
- Post spill debrief records
- Interviews with the public at the spill location

²¹ Ref. State Water Board Order No. WQ2022-0103-DWQ (SSSWDR), *Element 6, ATTACHMENT D, Page D-6*

16.1.1.1 Failure Analysis Form

The product of the failure analysis investigation will be the determination of the root cause and the identification and scheduling of the corrective actions. The Failure Analysis Form (ATTACHMENT D) will be used to document the investigation.

16.2 Complaint Records

The Department maintains records of all complaints received whether they result in sanitary sewer spills. These complaint records include, but are not limited to, records documenting how the CVWD response staff responded to notifications of spills. Each complaint record must, at a minimum, include the following information:

- Date, time, and method of notification,
- Date and time the complainant first noticed the spill, if available,
- Narrative description of the complaint,
- Information the caller provided regarding whether the spill has reached surface waters or a drainage conveyance system, if available,
- Complainant's contact information, if available, and
- Final resolution of the complaint.

All complaint records will be maintained for a minimum of five years whether they result in a spill. Spill files (field notes, Spill/Backup Response Workbook) are kept in the NEXGEN and Naviline application including an electronic file in the Microsoft Teams One Drive.

17 Personnel training

To ensure effective response during spill emergencies, comprehensive training is essential. This training aims to familiarize participants with emergency conditions and procedures, facilitate the visualization of response roles, and proactively address potential procedural conflicts or difficulties. The following section outlines the mandatory training requirements that support the Sewer System Management Plan (SSMP) and this Spill Emergency Response Plan (SERP)²².

This section details the essential training requirements for the SERP. Comprehensive training information is available in the SSMP, Chapter 4 Operations and Maintenance Program, Section 4.4, Part 4 Training. An overview of the SSMP-SERP training program highlights is provided below.

17.1 Training Topic Description

Table 12 Personnel Training Topics Descriptions

Count	Training Description
1	Surface Water Quality Sampling as Part of Your Spill Emergency
2	Estimating Spill Start Time and Spill Volume - Strategies and Methods
3	CIWQS Training for Data Submitters and Legally Responsible Officials
4	Surface Water Quality Sampling as Part of Your Spill Emergency
5	Preparing for Annual Certified Spill Reporting of Cat 4 and/or Non-Cat 1 Lat. Spills
6	Preparing and Submitting the Annual Report
9	CVWD O&M Hands-on Training – Various Spill Response Operations

17.2 Spill Training Record Keeping

Records will be kept of all training that has been provided in support of this SERP for 5 years. The records for all scheduled training courses and for each sewer spill emergency response training event will include date, time, place, content, name of trainer(s), names and titles of attendees, brief narrative description of the training, including training method(s) and training materials and/or equipment used.

Training Record Forms (ATTACHMENT G) are to be stored in an electronic file in an internal CVWD server for reference.

²² Ref. State Water Board Order No. WQ2022-0103-DWQ (SSSWDR), Element 6, ATTACHMENT D, Page D-6

18 Water Reclamation Plants

CVWD's five wastewater reclamation plants (WRPs) are essential for sustainable water management in the Coachella Valley. They employ advanced treatment to convert wastewater into reclaimed water for irrigation, reducing reliance on scarce water resources and supporting regional growth, while prioritizing environmental protection.

Table 13 Water Reclamation Plant Address, Permit, and WDID Numbers

WRP	Address	Permit No.	WDID
1	2201 Honey Wagon Rd, Bombay Beach, Imperial Co., CA 92257	R7-2013-0024	7A330105021
2	72-900 Hwy 111, North Shore, Riverside County, CA 92254	R7-2013-0025	7A330105032
4	63-002 Fillmore Street, Thermal, Riverside County, CA 92274	R7-2023-0013	7A330105091
7	80-609 Avenue 38, Indio, Riverside County, CA 92201	R7-2022-0009	7A330105071
10	43-000 Cook Street, Palm Desert, Riverside County, CA 92211	R7-2024-0016	7A330105012

WRP Site Area Map

Aerial maps of CVWD's service area demonstrate the geographic distribution of its five WRPs, underscoring the scale of its sanitation infrastructure.

Figure 12 CVWD Treatment Plant Area Map



18.1 WRP Spill Response Responsibilities

Coachella Valley Water District's wastewater treatment plant (WRP) spill response procedures are critical for protecting public health, preventing environmental contamination, ensuring regulatory compliance, and maintaining the operational integrity of wastewater infrastructure, thereby preserving public trust. The following responsibilities are outlines for each respective CVWD WRP.

18.1.1 Water Reclamation Plant No. 1

Thorough planning and training for sewer spills prepares personnel at the wastewater treatment plant, resulting in an efficient and well executed spill response program.

The spill response program provides the framework for how to respond to a sewer spill inside the premises of WRP-1. Wastewater treatment plant personnel have developed notification procedures, identified responsibilities for individuals, and created processes for spill monitoring, recording, and training as follows:

All spills will be reported to the Chief Plant Operator or the Shift Supervisor in the absence of the Chief Operator, who will follow these procedures:

- Requesting assistance from other departments within the facility
- Delegating responsibilities to others
- Assessing spill information from responder
- Establishing spill control, and prioritizing actions needed for abatement
- Assessing the initial volume of spill
- Determining if spill can affect public health and safety
- Initiating CVWD spill control and containment measures for all on-site and off-site spill migration, and
- Reporting spill information to CVWD reporting coordinator as indicated in the flow chart shown in the Spill Response Workbook

18.1.2 Water Reclamation Plant No. 2

Thorough planning and training for sewer spills prepare personnel at the wastewater treatment plant, resulting in an efficient and well executed spill response program.

This spill response program provides the framework for how to respond to a sewer spill inside the premises of WRP-2. Wastewater treatment plant personnel have developed notification procedures, identified responsibilities for individuals, and created processes for spill monitoring, recording, and training as follows:

All spills will be reported to the Chief Plant Operator or the Shift Supervisor in the absence of the Chief Operator, who will follow these procedures:

- Requesting assistance from other departments within the facility
- Delegating responsibilities to others
- Assessing spill information from responder
- Establishing spill control, and prioritizing actions needed for abatement
- Assessing the initial volume of the spill
- Determining if spill can affect public health and safety
- Initiating CVWD spill control and containment measures for all on-site and off-site spill migration
- Reporting spill information to CVWD Emergency Coordinator as indicated in the flow chart shown in Spill Response Workbook

18.1.3 Water Reclamation Plant No. 4

Thorough planning and training for sewer spills prepares personnel at the wastewater treatment plant, resulting in an efficient and well executed spill response program.

This spill response program provides the framework for how to respond to a sewer spill inside the premises of WRP-4. Wastewater treatment plant personnel have developed notification procedures, identified responsibilities for individuals, and created processes for spill monitoring, recording, and training as follows:

All spills will be reported to the Chief Plant Operator or the Shift Supervisor in the absence of the Chief Operator, who will follow these procedures:

- Requesting assistance from other departments within the facility
- Delegating responsibilities to others
- Assessing spill information from responder
- Establishing spill control, and prioritizing actions needed for abatement
- Assessing the initial volume of spill
- Determining if spill can affect public health and safety
- Initiating CVWD spill control and containment measures for all on-site and off-site spill migration
- Reporting spill information to CVWD Emergency Coordinator as indicated in the flow chart shown in Spill Response Workbook

18.1.4 Water Reclamation Plant No. 7

The control operator receives alarms and notifies the operations staff in the event of an emergency. The Chief Plant Operator or Shift Supervisor in the absence of the Chief Operator, are assigned emergency response duty during normal work hours at WRP7; a stand-by emergency response operator is assigned during all off-normal work hours who will notify the Chief Plant Operator or Supervisor in his absence.

Thorough planning and training for sewer spills prepares personnel at the wastewater treatment plant, resulting in an efficient and well executed spill response program. This spill response program provides the framework for how to respond to a sewer spill inside the premises of WRP7. Wastewater treatment plant personnel have developed notification procedures, identified responsibilities for individuals, and created processes for spill monitoring, recording and training as follows in the next page.

All spills will be reported to the Chief Plant Operator or the Shift Supervisor in the absence of the Chief Operator, who will follow these procedures:

- Requesting assistance from other departments within the facility
- Delegating responsibilities to others
- Assessing spill information from responder
- Establishing spill control, and prioritizing actions needed for abatement
- Assessing the initial volume of spill
- Determining if spill can affect public health and safety
- Initiating CVWD spill control and containment measures for all on-site and off-site spill migration
- Reporting spill information to CVWD reporting coordinator as indicated in the flow chart shown in Spill Response Workbook

18.1.5 Water Reclamation Plant No. 10

WRP-10 is staffed 24/7, 365 days a year, therefore an operator is present at the facility's control building monitoring SCADA at all times. The control operator receives alarms and notifies the operations staff in the event of an emergency. The Chief Plant Operator or Shift Supervisor in the absence of the Chief Operator, are assigned emergency response duty at WRP10.

Thorough planning and training for sewer spills prepares personnel at the wastewater treatment plant, resulting in an efficient and well executed spill response program. This spill response program provides the framework for how to respond to a sewer spill inside the premises of WRP 10. Wastewater treatment plant personnel have developed notification procedures, identified responsibilities for individuals, and created processes for spill monitoring, recording and training as follows in the next page.

All spills will be reported to the Chief Plant Operator or the Shift Supervisor in the absence of the Chief Operator, who will follow these procedures:

- Requesting assistance from other departments within the facility
- Delegating responsibilities to others
- Assessing spill information from responder
- Establishing spill control, and prioritizing actions needed for abatement
- Assessing the initial volume of spill,
- Determining if spill can affect public health and safety
- Initiating CVWD spill control and containment measures for all on-site and off-site spill migration
- Reporting spill information to CVWD reporting coordinator as indicated in the flow chart shown in Spill Response Workbook

19 Stormwater Collaboration

The Coachella Valley Water District (CVWD) manages a regional stormwater protection system across approximately 590 square miles of the arid Coachella Valley²³, an area prone to flash flooding despite its low-average annual rainfall. The core of this infrastructure is the 50-mile Whitewater River/Coachella Valley Stormwater Channel (WWRSC/CVSC), which extends from north of Palm Springs southeast to the Salton Sea. This channel, exceeding 100-year flood capacity, incorporates both the natural Whitewater River alignment (west of Point Happy) and a constructed channel (east to the Salton Sea).

The system also includes approximately 169 miles of tributary channels that drain runoff from the surrounding Santa Rosa and Little San Bernardino Mountains into the main WWRSC/CVSC. Furthermore, CVWD operates 18 primary stormwater protection facilities, along with dikes and levees, to capture and direct mountain floodwater across the valley floor, particularly in cove communities.

CVWD classifies its channels into incised channels (100-year flood level below adjacent ground with ≥3 feet freeboard) and leveed channels (100-year flood level exceeding adjacent ground). The overarching operational goal is to efficiently collect, detain, and convey regional flood flows to the Salton Sea, thereby minimizing property damage.

Recognizing the critical nature of this infrastructure, CVWD actively re-evaluates, upgrades, and seeks FEMA certification for its facilities. Current and future projects focus on expanding protection to underserved areas like Thousand Palms, North Cathedral City, and North Indio, and on enhancing overall system efficiency.

19.1 Spill Response Collaboration

In the event of a spill affecting the WWRSC/CVSC, the CVWD's Collection System Department collaborates closely with the Storm Water Division. This partnership has resulted in proactively developed mapping documentation (Attachment I) identifying designated access points to the sanitary collection system within the stormwater conveyance infrastructure's area of influence. This collaborative preparedness ensures a coordinated and effective response to mitigate potential spill impacts within these vital waterways.

19.1.1 Stormwater Contact Personnel

Name	Title	Phone	Email
Simon Loredo	Crew Chief	(760) 398-2661, 2384	SLoredo@cvwd.org
Benito Reyes	Ops Supervisor	(760) 398-2661, 2322	Breyes2@cvwd.org
Michael Rios	Ops Manager Facilities	(760) 398-2661, 2319	MRios@cvwd.org
Chad Austin	Assistant Dir Ops & Fac.	(760) 398-2661, 2411	CAustin@cvwd.org

- For unanswered emergency response situations, staff may contact Control for assistance.

²³ CVWD Stormwater Service Area:
<https://www.cvwd.org/DocumentCenter/View/1035/Stormwater-Service-Area-Map-PDF?bidId=>

19.2 MS4 Contact List

An MS4 contact list is a directory containing the names, titles, phone numbers, and/or email addresses of individuals or departments responsible for managing and implementing the Municipal Separate Storm Sewer System (MS4) program within a specific jurisdiction or agency.

19.2.1 Whitewater River Region Principal Permittees

19.2.1.1 Riverside County Flood Control & Water Conservation District

1995 Market Street
Riverside, CA 92501

Watershed Protection Division Chief

Richard Boon Ph: 951.955.1273
rboon@rivco.org

Monitoring Programs Manager

Rebekah Guill Ph: 951.955.2901
rguill@rivco.org

Data Manager

Abigail Suter Ph: 951.955.1734
adsuter@rivco.org

Engineering Project Manager

Rohini Mustafa Ph: 951.955.1330
romustaf@rivco.org

Government Affairs Officer

Darcy Kuenzi Ph: 955.951.1688
dkuenzi@rivco.org

Whitewater River Region Permit Manager

Ryan Kearns Ph: 951.955.2047
rkearns@rivco.org

19.2.1.2 County of Riverside

Riverside County Executive Office

Scott Bruckner
4080 Lemon Street, 4th Floor
Riverside, CA 92501 Ph:
951.955.9760 sbruckner@rivco.org

Riverside County TLMA

Jan Bulinski
3525 14th Street
Riverside, CA 92501 Ph: 951.955.6859
jbulinski@rivco.o

19.2.2 Colorado River Basin Regional Water Quality Control Board

RWQCB

73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260
Front Desk: 760.346.749
Fax: 760.341.6820

Surface Water Protection Section Chief

Kai Dunn
Ph: 760.776.8986
Kai.Dunn@waterboards.ca.gov

Senior Environmental Scientist

Logan Raub
Ph: 760.776.8966
Logan.Raub@waterboards.ca.gov

Water Resources Control Engineer

Jay Mirpour
Ph: 760.673.9000
Jay.Mirpour@waterboards.ca.gov

19.2.3 Whitewater River Region NPDES Contacts

City of Banning

Ann Marie Loconte or Kevin Sin
99 E. Ramsey Street
Banning, CA 92220 Ph: 951.922.3130
amloconte@banningca.gov
ksin@banningca.gov

City of Cathedral City

Andrew Lee
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Cathedral City, CA 92234 Ph: 760.770.0319
alee@cathedralcity.gov

City of Desert Hot Springs

Nicholas Haecker
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760.329.6411, ext. 218
nhaecker@cityofdhs.org

City of Indio

Sara Toyoda
100 Civic Center Mall
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City of Palm Springs

Rick Minjares
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Palm Springs, CA 92263
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City of Rancho Mirage

Leland Cole
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Coachella Valley Water District (CVWD)

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City of Palm Desert

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20 Definitions and Acronyms

The General Order specifies the definitions of several terms, including spill categories and other terminology. Frequently used terms are defined below; see [General Order](#) WQ 2022-0103-DWQ at (<https://www.waterboards.ca.gov>) for a complete list.

ANNUAL REPORT: An Annual Report (previously termed as Collection System Questionnaire in previous California State Water Board Order No. 2006-0003-DWQ) is a mandatory report in which CVWD provides a calendar-year update of its efforts to prevent spills.

BASIN PLAN: A Basin Plan is a water quality control plan specific to a Regional Water Quality Control Board (Regional Water Board), that serves as regulations to: (1) define and designate beneficial uses of surface and groundwaters, (2) establish water quality objectives for protection of beneficial uses, and (3) provide implementation measures.

CAL OES: California Office of Emergency Services

CALIFORNIA INTEGRATED WATER QUALITY SYSTEM (CIWQS): CIWQS is the statewide database that provides mandatory electronic reporting as required in State and Regional Water Board-issued waste discharge requirements.

COACHELLA VALLEY WATER DISTRICT (or District): Coachella Valley Water District. CVWD was formed in 1918 to protect and conserve local water sources. Since then, the District has grown into a multifaceted agency that delivers irrigation and domestic (drinking) water, collects and recycles wastewater, provides regional storm water protection, replenishes the groundwater basin and promotes water conservation.

COLLECTION SYSTEMS (SANITATION): Conveyance piping, lift stations, force mains, and any appurtenance thereto that convey untreated or partially treated wastewater flows to treatment facilities.

DATA SUBMITTER: A Data Submitter is an individual designated and authorized by CVWD's Legally Responsible Official to enter spill data into the online CIWQS Sanitary Sewer System Database. A Data Submitter does not have the authority of a Legally Responsible Official to certify reporting entered into the online CIWQS Sanitary Sewer System Database.

DRAINAGE CONVEYANCE SYSTEM: A drainage conveyance system is a publicly- or privately-owned separate storm sewer system, including but not limited to drainage canals, channels, pipelines, pump stations, detention basins, infiltration basins/facilities, or other facilities constructed to transport stormwater and non-stormwater flows.

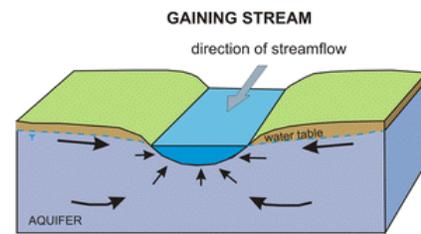
ENROLEE: As defined in Board Order reference number 1 below, all federal and state agencies, municipalities, counties, districts, and other public entities that own or operate sanitary sewer systems greater than one mile in length that collect and/or convey untreated or partially treated wastewater to a publicly owned treatment facility in the State of California are referred to as “Enrollees”.

ENVIRONMENTALLY SENSITIVE AREA: An environmentally sensitive area is a designated agricultural and/or wildlife area identified to need special natural landscape protection due to its wildlife or historical value.

EXFILTRATION: Exfiltration is the underground exiting of sewage from a sanitary sewer system through cracks, offset or separated joints, or failed infrastructure due to corrosion or other factors.

FOG: Fats, Oils, and Grease: Refers to fats, oils, and grease typically associated with food preparation and cooking activities that can cause blockages in the sanitary sewer system.

HYDROLOGICALLY CONNECTED: Two waterbodies are hydrologically connected when one waterbody flows, or has the potential to flow, into the other waterbody. For the purpose of the SWRCB Order, groundwater is hydrologically connected to surface water when the groundwater feeds into the surface water. See image, right. The surface waterbody in this example is termed a gaining stream as it gains flow from surrounding groundwater.



LATERAL (INCLUDING LOWER AND UPPER LATERAL): A lateral is an underground segment of smaller diameter pipe that transports sewage from a customer’s building or property (residential, commercial, or industrial) to CVWD’s main sewer line in a street or easement. Upper and lower lateral boundary definitions are subject to local jurisdictional codes and ordinances, or private system ownership. A lower lateral is the portion of the lateral located between the sanitary sewer system main, and either the property line, sewer clean out, curb line, established utility easement boundary, or other jurisdictional locations. An upper lateral is the portion of the lateral from the property line, sewer clean out, curb line, established utility easement boundary, or other jurisdictional locations, to the building or property.

LEGALLY RESPONSIBLE OFFICIAL: A Legally Responsible Official is an official representative, designated by CVWD, with authority to sign and certify submitted information and documents required by State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR).

MAINLINE SEWER: Refers to CVWD wastewater collection system piping downstream of the sewer laterals that is not a private sewer lateral connection to a building.

MAINTENANCE HOLE: Refers to an engineered structure that is intended to provide access to a sanitary sewer for maintenance and inspection, previous referred to as a “manhole.”

NOTIFICATION: Notification means the notifying of appropriate parties of a spill event or other activity.

NOTIFICATION, OF A SPILL: Refers to the time at which the department becomes aware of a spill event through observation or notification by the public or other source.

NUISANCE: For the purpose of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR), a nuisance, as defined in Water Code section 13050(m), is anything that meets all of the following requirements:

- Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property;
- Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal; and
- Occurs during, or as a result of, the treatment or disposal of wastes.

OES: Office of Emergency Services, California

PREVENTATIVE MAINTENANCE: Refers to maintenance activities intended to prevent failures of the wastewater collection system facilities (e.g. cleaning, CCTV, inspection).

PRIVATE LATERAL SEWAGE SPILL: Spills that are caused by blockages or other problems within a privately-owned lateral.

PRIVATE SANITARY SEWER SYSTEM: A private sanitary sewer system is a sanitary sewer system of any size that is owned and/or operated by a private individual, company, corporation, or organization. A private sanitary sewer system may or may not connect into a publicly owned sanitary sewer system.

PRIVATE SEWER LATERAL: A private sewer lateral is the privately-owned lateral that transports sewage from private property(ies) into a sanitary sewer system.

POTENTIAL TO DISCHARGE, POTENTIAL DISCHARGE: Potential to Discharge, or Potential Discharge, means any exiting of sewage from a sanitary sewer system which can reasonably be expected to discharge into a water of the State based on the size of the sewage spill, proximity to a drainage conveyance system, and the nature of the surrounding environment.

RECEIVING WATER: A receiving water is a water of the State that receives a discharge of waste.

RECORDKEEPING: Recordkeeping means the maintaining of information and data in an official records storage system.

REPORTING: Reporting means the reporting of information and data into the online California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database.

RWQCB: Regional Water Quality Control Board

SANITARY SEWER SYSTEM: A sanitary sewer system is a system that is designed to convey sewage, including but not limited to, pipes, maintenance holes, pump stations, siphons, wet wells, diversion structures and/or other pertinent infrastructure, upstream of a wastewater treatment plant headworks, including:

- Systems owned and/or operated by CVWD;
- Temporary conveyance and storage facilities, including but not limited to temporary piping, vaults, construction trenches, wet wells, impoundments, tanks, and diversion structures.
- For purpose of the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR), sanitary sewer systems include only systems owned and/or operated by CVWD.

SATELLITE SEWER SYSTEM: A satellite sewer system is a portion of a sanitary sewer system owned or operated by a different owner than the owner of the downstream wastewater treatment facility ultimately treating the sewage.

SEWAGE: Sewage, and its associated wastewater, is untreated or partially treated domestic, municipal, commercial and/or industrial waste (including sewage sludge), and any mixture of these wastes with inflow or infiltration of stormwater or groundwater, conveyed in a sanitary sewer system.

SEWER BACKUP: A sanitary sewer spill resulting from a sanitary sewer system spill, operational failure, and/or infra-structure failure in a publicly owned sewer system, with an appearance point and subsequent discharge into a structure.

SPILL SPECIFIC MONITORING: Spill-specific Monitoring means the gathering of information and data for a specific spill event to be reported or kept as records.

SPILL: A spill is a discharge of sewage from any portion of a sanitary sewer system due to a sanitary sewer system spill, operational failure, and/or infrastructure failure. Exfiltration of sewage is not considered to be a spill under the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR) if the exfiltrated sewage remains in the subsurface and does not reach a surface water of the State.

- **CATEGORY 1 SPILL:** A spill of any volume of sewage from or caused by a regulated sanitary sewer system that results in a discharge to:
 - a. A surface water, including a surface water body that contains no flow or volume of water; or
 - b. A drainage conveyance system that discharges to surface waters when the sewage is not fully captured and returned to the sanitary sewer system or disposed of properly.

Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility. A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water is a Category 1 spill.

- **CATEGORY 2 SPILL:** A spill of 1,000 gallons or greater, from or caused by a regulated sanitary sewer system that does not discharge to a surface water. A spill of 1,000 gallons or greater that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 2 spill.

According to State Water Resources Control Board personnel, it is assumed that a sewage spill of 1,000 gallons or more will discharge or has the potential to discharge to surface water.

- **CATEGORY 3 SPILL:** A spill of equal to or greater than 50 gallons and less than 1,000 gallons, from or caused by a regulated sanitary sewer system that does not discharge to a surface water. A spill of equal to or greater than 50 gallons and less than 1,000 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 3 spill.
- **CATEGORY 4 SPILL:** A spill of less than 50 gallons, from or caused by a regulated sanitary sewer system that does not discharge to a surface water. A spill of less than 50 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 4 spill.

Training: Training is in-house or external education and guidance needed that provides the knowledge, skills, and abilities to comply with the State Water Board Order No. WQ 2022-0103-DWQ (SSSWDR).

UNAUTHORIZED WASTEWATER DISCHARGE REPORT: CIWQS report name

WASH DOWN WATER: Wash down water is water used to clean a spill area.

WASTE: Waste, as defined in Water Code section 13050(d), includes sewage and any and all other waste substances, liquid, solid, gaseous, or radioactive, associated with human habitation, or of human or animal origin, or from any producing, manufacturing, or processing operation, including waste placed within containers of whatever nature prior to, and for purposes of, disposal.

WATERS OF THE STATE: Waters of the State are surface waters or groundwater within boundaries of the state as defined in Water Code section 13050(e), in which the State and Regional Water Boards have authority to protect beneficial uses. Waters of the State include, but are not limited to, groundwater aquifers, surface waters, saline waters, natural washes and

pools, wetlands, sloughs, and estuaries, regardless of flow or whether water exists during dry conditions. Waters of the State include waters of the United States.

WATERS OF THE UNITED STATES: Waters of the United States are surface waters or waterbodies that are subject to federal jurisdiction in accordance with the Clean Water Act.

WATER QUALITY OBJECTIVE: A water quality objective is the limit or maximum amount of pollutant, waste constituent or characteristic, or parameter level established in statewide water quality control plans and Regional Water Boards' Basin Plans, for the reasonable protection of beneficial uses of surface waters and groundwater and the prevention of nuisance.

WRP – Water Reclamation Plant

21 References

1. Attachment A, Monitoring and Reporting Program, California State Water Resources Control Board Order No. WQ-2013-0058-EXEC.
2. Sewer System Management Plan (SSMP), Coachella Valley Water District, December 1, 2019
3. Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, California State Water Board Order No. WQ2022-0103-DWQ (SSWDR)
4. Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, California State Water Resources Control Board Order No. 2006-0003
5. CVWD Code, <https://cvwd.district.codes>
6. Water Quality Control Plan for the Colorado River Basin Region dated March 30, 2023

22 ATTACHMENTS

- Attachment A: Update Tracking
- Attachment B: Spill Response Workbook
- Attachment C: Spill Report Form
- Attachment D: Post Spill Analysis Workbook
- Attachment E: RWQCB Spill Notification Certification Form
- Attachment F: Sampling Plan
- Attachment G: Training Record Forms
- Attachment H: Lift Station Information
- Attachment I: Stormwater Response – Access Points

Coachella Valley Water District



ATTACHMENT A: Plan Revision and Audit Tracking Form

This tracking form is a copy of the SSMP Part A Tracking Form

TRACKING OF: PLAN REVISIONS/UPDATES AUDITS PERFORMED

- Sanitary Sewer Management Plan (SSMP)
- Sanitary Spill Emergency Response Plan (SERP)
- Sanitary Sewer Overflow Response Plan (SSORP)
- Sanitary Sewer Management Plant Audit (Audit Report)

DOCUMENT	Month	Year	DESCRIPTION
SSORP	November	2010	Initial Document
SSMP	December	2010	Initial Document
Audit Report	December	2012	Routine Audit
SSORP	December	2013	Revision
SSMP	February	2014	Revision
Audit Report	September	2014	Routine Audit
SSORP	December	2015	Revision
SSMP	December	2015	5-Year Revision
Audit Report	November	2016	Routine Audit
SSMP	February	2017	Revision
SSMP	November	2018	Routine Audit
SSMP/SSORP	December	2019	5-Year Revision
SSMP	December	2020	Routine Audit
Audit Report	May	2024	3-Year Audit
SSMP/SERP	May	2025	5-Year Update

Coachella Valley Water District



ATTACHMENT B: Spill Response Workbook



SPILL RESPONSE WORKBOOK

CVWD O&M SANITATION

DATE:

PREPARED BY:

SIGNATURE:

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	Customer Sewer Backup Communication	31
	Customer Sewer Backup Report Completion	31
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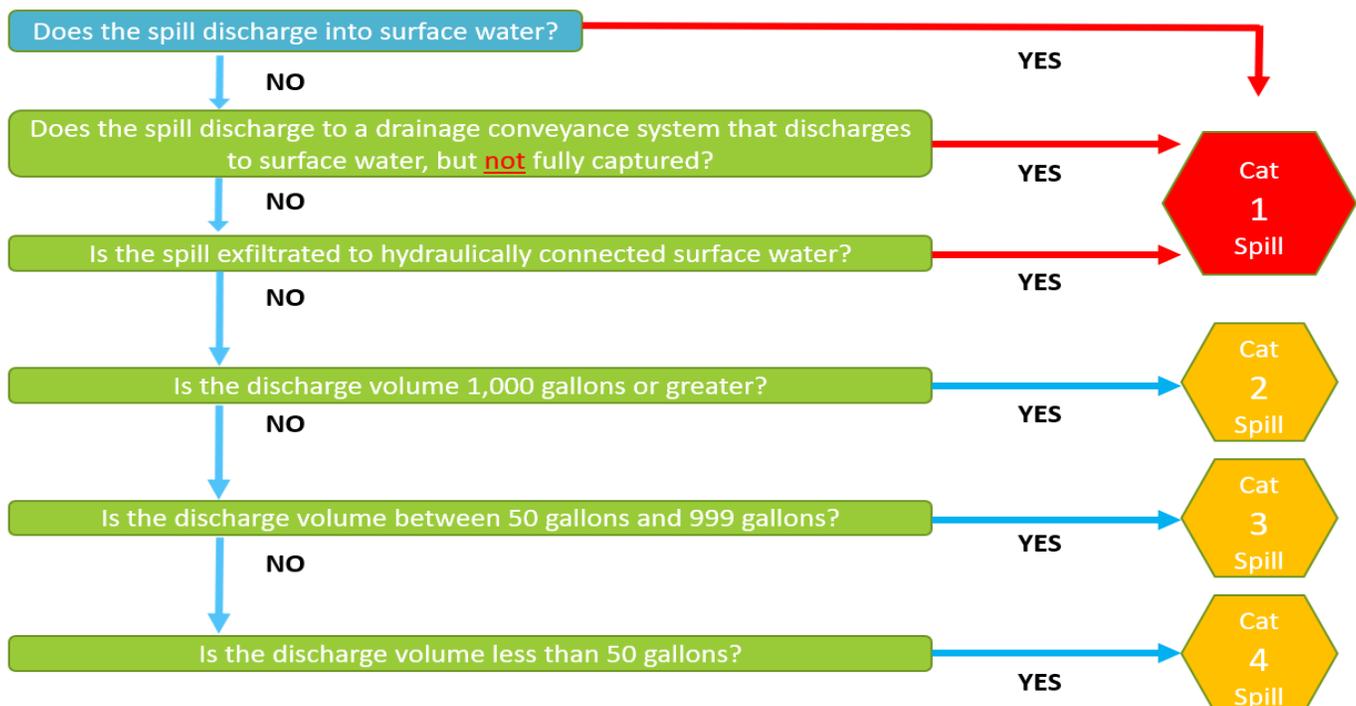
1. Immediate notifications

- Utilize Category Determination flow chart on this page as a quick reference to identify the spill.
- If this sewer spill is discharging or threatening to discharge greater than or equal to 1,000 gallons to Waters of the State, immediately contact Cal OES at (800) 852-7550 within 2 hours and obtain a control number.
 - Record this number in Table 5.**
 - Refer to the Spill Category Notification Selection (Table 1) and Regulatory Reporting Guide (Table 3) in this workbook for additional requirements.
- If there is a backup into a residence/business that may be due to a problem in CVWD's sewer system, notify the immediate manager or Collection Systems Supervisor or Wastewater Operations Manager.
 - Immediate manager (Authorized Staff contact information in SSMP-SERP Section 7.4 Table 2).
 - Collection Systems Supervisor contact number: 760-574-9908,
 - Wastewater Operation Manager contact number: 760-574-2242.
- For media inquiries/requests contact the CVWD Communications Department at:
 - 760-398-2661 ext. 2549 or 760-695-4007 (Communication Manager/Public Information Officer).

Table 1 Spill Category Notification Selection

	SPILL CATEGORY				
	1	2	3	4	*
Notify the California Office of Emergency Services (CalOES) within 2 hours of knowledge of a spill of 1,000 gallons or more, discharging or threatening to discharge to surface waters; obtain notification control number from CalOES (Record this number on Table 5).	X	X			
Assess the spill location and spread and estimate spill volume. For spills discharging to surface waters, conduct additional observations of the receiving water.	X	X	X	X	

Table 2 Category Selection Flow Chart



2. Regulatory Requirement Report Guide

- ✓ **Monthly Spill Reporting of Non-Category 1 Lateral Spills:** If either (1) no spills occur during a calendar month or (2) only Category 4, and/or Enrollee-owned and/or operated lateral spills (that do not discharge to a surface water) occur during a calendar month, the Enrollee shall certify, within 30 calendar days after the end of each calendar month, either a “No-Spill” certification statement, or a “Category 4 Spills” and/or “Non-Category 1 Lateral Spills” certification statement, in the online CIWQS Sanitary Sewer System Database, certifying that there were either no spills, or Category 4 and/or Non-Category 1 Lateral Spills that will be reported annually for the designated month.
- ✓ **Annual Certified Spill Reporting of Category 4 and/or Lateral Spills:** For all Category 4 spills and spills from its owned and/or operated laterals that are caused by a failure or blockage in the lateral and that do not discharge to a surface water, the Enrollee shall annually upload and certify a report, in an appropriate digital format, of all recordkeeping of spills to the online CIWQS Sanitary Sewer System Database, by February 1st after the end of the calendar year in which the spills occurred

Table 3 Regulatory Requirement Timelines Per Category

	SPILL CATEGORY				
	1	2	3	4	*
Conduct water quality sampling of the receiving water within 18 hours of initial knowledge of a spill that is 50,000 gallons or more, discharging to surface waters	X				
Submit a Draft Spill Report within 3 business days of knowledge of the spill.	X	X			
Submit a Certified Spill Report within 15 calendar days of the spill end date.	X	X			
Submit monthly Certified Spill Report within 30 calendar days after the end of the month in which the spill occurs.			X		
Certify monthly the estimated total spill volume exiting the sanitary sewer system, and the total number of all Category 4 spills; submit within 30 calendar days after the end of the month in which the spill occurs.				X	
Submit a Technical Report within 45 days after the spill end date for a spill of 50,000 gallons or more discharged to surface waters.	X				
if necessary to update a Certified Spill Report, submit an Amended Spill Report within 90 calendar days after the spill end date.	X	X			
If necessary to update a monthly Certified Spill Report, submit an Amended Spill Report within 90 calendar days after the Certified Spill Report due date.			X		
Upload and certify a report of all spills of this category by February 1st after the end of the calendar year in which the spills occur.				X	X
Notes: * = Non-numerical placeholder for spills less than 1,000 gallons from Enrollee owned and/or operated laterals that do not discharge to surface waters					

3. Authorized Personnel

Table 4 CVWD's Legally Responsible Official (LRO) is authorized to electronically sign and certify sewer spill reports in CIWQS.

Name	Title	Telephone	
Nahúm Padilla	Supervisor, Collection Systems	760-574-9908	DS
Grant Roper	Crew Chief, Collection Systems	760-393-7078	DS
Felix Bañuelos	Crew Chief, Collection Systems	760-574-9674	DS
Angel Calderon	Crew Chief, Collection Systems	442-256-1708	DS
Andy Calhoun	Supervisor, Mechanical	760-652-9582	DS
Mark Quiroz	Supervisor, WRP-4, 2, 1	760-574-3036	DS
Larry Cobb	Supervisor, WRP-7	760-835-2957	DS
Cristian Castro	Chief Plant Operator, WRP-10	760-989-6778	DS
Vanessa Duong	Environmental Services Specialist	442-666-9164	DS
Ivan Monroy	Environmental Services Coordinator	760-393-7942	DS
Luis Torner	Wastewater Operations Manager	760-574-2242	LRO
Thomas West	Assistant Director of Sanitation O&M	760-229-7522	LRO
Joanne Le	Assistant Director of Environmental Services	760-393-7792	LRO
Armando Rodriguez	Engineering Manager - Sanitation	760-641-4272	LRO
Dan Charlton	Assistant General Manager of O&M	760-972-0828	LRO

4. Spill Work Process and Responsibility Checklist

The responsibility checklist (Pg. 9) and flow chart (below) are guidelines for the response process at any time and in the best interest for public and environmental health, including CVWD, all response staff may be required to perform additional tasks not listed under the guidelines provided or listed.

Field Response Crew - Incident Commander

- Review the Sewer Spill Event Checklist (Pg. 9) and start the notification log located in Section 5.
- Initiate the Spill Response Worksheet (Section 6), and complete forms in this Workbook as necessary to remain in compliance.
- Deliver workbook and required forms via email to the Collection System Supervisor, Wastewater Operation Manager and assigned Authorized Staff EC.
- See provided Flow Charts in Appendix A for additional guidance when responding to a sanitary sewer spill.

Emergency Coordinator - IC

- Review the Sewer Spill Event Checklist (Pg. 9) and the forms in this workbook. Contact the Collections Crew for additional information if necessary.
- Confirm that all required regulatory notifications have been made and properly recorded (Sections 1-5).
- If this was a private system or customer sewer backup, follow instructions on the forms checklist Section 8 of this workbook.
- Complete the Sewer Spill Back Up Response Workbook and Spill Report, forward draft Spill Report to assigned Data Submitter.
- Complete the Failure Analysis Post Sewer Spill Assessment.

Data Submitter - Authorized Staff - EC

- Refer to the Responsibility Checklist (Pg. 9); Data Submitter Responsibilities
- Review and file Sewer Spill Back Up Response Workbook and Spill Report with the sewer spill file then forward email with attachments for certification to a Legally Responsible Official (see Section 3, Table 3 for complete LRO list).
- Enter reviewed Spill Report data on CIWQS.
- Email assigned LRO when a CIWQS draft is submitted and is ready for certification.

Legally Responsible Official - EC

- Refer to Sewer Spill Event Checklist LRO Responsibilities (Pg. 9)
- Review CIWQS, Sanitary Sewer Spill Report, Worksheets, CMMS, and any other documentation to ensure data is consistent (e.g. dates, times, volumes, cause, follow-up action, etc.).
- If needed, file this Spill Report with the sewer spill file.
- Certify spill report by respective due date.

Figure 1 FR (First Response), IC (Incident Commander), EC (Emergency Coordinator); Refer to SERP Section 7 Spill Response Organization for details.

Responsibility Checklist

FIELD CREW RESPONSIBILITIES:

- Effort made to contain and return a portion/all to the sanitary sewer
- Pictures/video taken of spill
- Pictures taken of affected/unaffected area
- If property damage, start investigative process
- Pictures taken of containment efforts
- If spill is Cat 1 > 1000 gallons or Cat 2 > 1000 gal threatening to discharge to waters of the State, OES was contacted within 2 hours, contact EC
- Impacted waters identified
- Assess and document spill location and spread including photos
- Complete, Spill Report Form (includes narrative fields for CIWQS, and estimating procedures and sketch of spill), Section 6 - Step 3.
- Follow Water Quality Monitoring and Sampling procedures, if required (Category 1 Spill over 50,000 gallons) and complete the Surface Water Sampling Worksheet

EMERGENCY COORDINATOR RESPONSIBILITIES

- Start folder for all documentation for this spill event (Spill Report, Field Reports, Worksheets/Forms, follow-up work orders, notes, photos, drawings, CIWQS print outs, emails, etc.)
- For Cat 1 Spills 50,000 gallons or larger, obtain sampling results, Surface Water Sampling Worksheet
- Create a map of where samples were taken, if applicable
- Initial review of forms is complete (ensure consistency of dates, times, volumes, and other data)
- Review of photos and videos (label/date)
- Complete CVWD Sewer Spill Response Workbook
- Document findings and next steps on Sewer Spill – Back Up Response Workbook.
- CCTV to determine cause, if necessary
- Review Asset History
- Determine the next steps to prevent recurrence

DATA SUBMITTER RESPONSIBILITIES

- Submit Draft in CIWQS w/in 3 business days (for Categories 1 and 2 only)
- If applicable, ensure Technical Report is written for Cat 1 SSS (over 50k Gallons); Attach Technical Report to CIWQS
- Review CIWQS, Sewer Spill Report, Workbooks, CMMS, and any other documentation to ensure data is consistent (e.g. dates, times, volumes, cause, follow-up action, etc.)
- Attach photos, forms etc. to CIWQS
- Submit Ready to Certify in CIWQS (with sufficient time for LRO review)
- Print CIWQS Ready to Certify and email to LRO's
- Forward Spill Report and required forms to LRO's.
- Complete Failure Analysis and Post Spill Assessment Workbook (file in appropriate spill folder spill folder)
- Move completed Workbook and spill folder to spill files

LRO RESPONSIBILITIES

- Review CIWQS, Sewer Spill Report, Worksheets, CMMS, and any other documentation to ensure data is consistent (e.g. dates, times, volumes, cause, follow-up action, etc.)
- Certify in CIWQS (within 15 calendar days for Categories 1 & 2, 30 days after the month for Category 3 & 4)
- Any changes? Change in CIWQS and hard copies and explain changes, print our current version
- Record changes made to SSMP
- Update SSMP and link on CIWQS to SSMP
- Add change to SSMP Change Log/Recertification
- Print Certified CIWQS and email Sanitary Authorized staff and other LRO's.

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6. Spill Response Worksheet

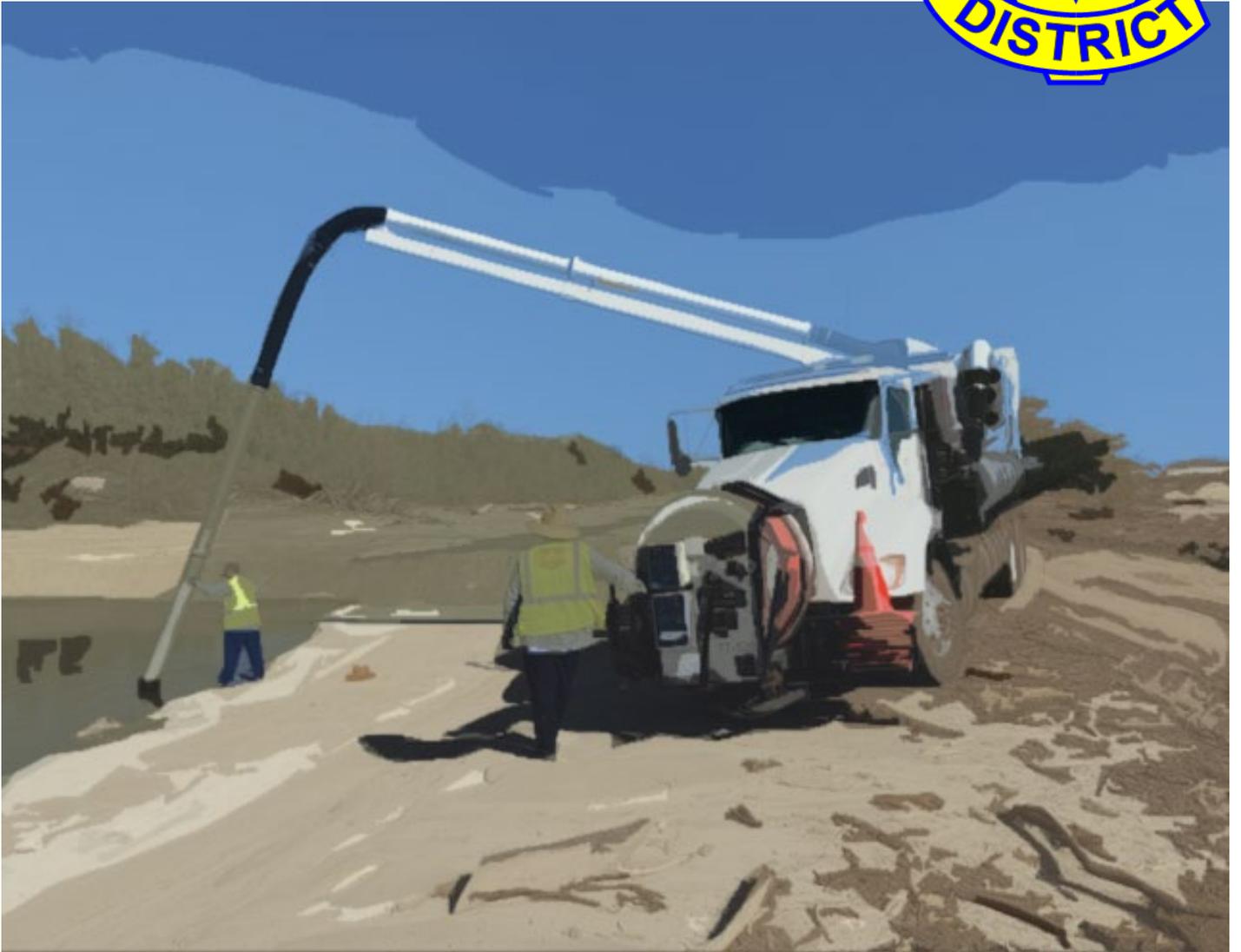


Figure 2 Containment and Removal, Post - Tropical Storm Hilary 2023

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STEP 1 Spill Information

	REQUESTED INFORMATION	RESPONSE
1	First Responder (Name)	
2	Department	
3	Phone number (First Responder)	
4	Incident Commander (Name)	
5	Department	
6	Phone number (Incident Commander)	
7	Location of Spill (address, cross street or landmarks)	
8	Spill GPS coordinates? Latitude:	Longitude:
9	What is the spill material?	
10	Is the spill on site at a WRP?	
11	Is the spill off site within the collection system?	
12	Date Spill Began	
13	Time Spill Began	
14	Date Spill Ended	
15	First Responder Arrival Time:	
16	Time Spill Ended	
17	What was the source/cause of spill	
18	Estimated Volume of Spill	
19	Estimated Volume Recovered	
20	Estimated Rate if still flowing	
21	Estimated Volume Lost to a water body	
22	Location of lost spilled material	
23	Where did spill enter a drainage channel	
24	Where did spill enter a state highway	
25	Water body that received or will receive the spill?	
26	What is the spill category? (CIRCLE CATEGORY)	1 2 3 4
27	Cal OES Control No.	
28	Reported Date and Time	Date: Time:
29	Officer on Duty	

FIELD NOTES LOG SHEET INSTRUCTIONS FOR SELECTED ITEMS

- If reasonably possible, create a list of nearby residents or business owners who have been contacted to attempt to establish the spill start time, duration, and flow rate.
- Attach completed Spill Response Worksheet in the Sewer Spill Response Workbook to the completed Spill Report.
- Follow all required steps of this Sewer Spill Response Workbook and select one of the described methods to determine the total spill volume, spill volume that reached surface waters, and spill volume recovered.
- See provided Flow Charts in Appendix A of this workbook for additional guidance when responding to a sanitary sewer spill.

STEP 2**Supplemental Category 1 Spill Reporting Information**

- Complete this section if the reported spill is **Category 1 only**.
- Proceed to Step 3 if the reported spill is Category 2, 3, or 4.

CATEGORY 1 REPORTING ONLY	
List the GPS Coordinates of Spill Origination	Latitude: _____ Longitude: _____
Notify CalOES of the Spill within 2 hours (for sewage spill that is 1,000 gallons or greater and discharges to surface water) Notification Control Number: 1-800-852-7550 or 916-845-8911 (direct)	Date: _____ Time: _____ Control No. (received from Cal OES): _____ Officer on Duty: _____
<i>Complete the following sections for spills discharging to surface waters. Take photographs/videos of the drainage conveyance system and receiving water to document presence/absence of waterbody conditions noted below.</i>	
Conduct receiving water visual observations, note the presence of any of these conditions and actions taken	<input type="checkbox"/> Waterbody bank erosion <input type="checkbox"/> Floating matter <input type="checkbox"/> Impacts to aquatic life <input type="checkbox"/> Temp. restricted use <input type="checkbox"/> Water surface sheen <input type="checkbox"/> Discoloration <input type="checkbox"/> Public closure <input type="checkbox"/> Posted health warnings <input type="checkbox"/> Restricted access
Estimate the spill travel time to the receiving water, if applicable (in minutes)	
For a spill entering a drainage conveyance system (e.g., storm drain), estimate the spill travel time from the point of entry into the drainage conveyance system to the point of discharge into the receiving water (in minutes)	
Estimate the spill volume that entered the receiving water (gallons)	
Conduct water quality sampling and analysis each day of the duration of the spill (applicable to sewage spill of 50,000 gallons or greater to surface water; within 18 hours)	<input type="checkbox"/> Yes <input type="checkbox"/> No; not applicable

STEP 3 Spill Estimation

- Select estimation method and provide estimate of the spill volume and the recovered spill volume.
- Mathematical formulas are available in Section 7 of this document, for reference.

Estimation Method for Spill Volume		Estimation Method for Recovered Spill Volume:	
<input type="checkbox"/> Eyeball Estimate	<input type="checkbox"/> Duration and Flow Rate	<input type="checkbox"/> Eyeball Estimate	<input type="checkbox"/> Measured Volume
<input type="checkbox"/> Measured Volume	<input type="checkbox"/> Other (explain):	<input type="checkbox"/> Other (explain):	

- If “Other” write explanation on methodology used to estimate the total:

The spill volume estimation method supports documentation and tools available continuing Step 4.

METHOD 1: EYEBALL ESTIMATE

- This method is only useful for spills up to 100 gallons
- This method is effective during dry weather but may not be used during rain events because runoffs can affect the spill volume estimate.
- Imagine the amount of water that would spill from a bucket or a barrel.

Spill Volume			
Container	#	Multiplier	Volume (gal)
1 gal water jug		x 1	
5-gal bucket		x 5	
32-gal trash can		x 32	
55-gal drum		x 55	
Total Volume of Spill (gal)			

Spill Volume Recovered			
Container	#	Multiplier	Volume (gal)
1 gal water jug		x 1	
5-gal bucket		x 5	
32-gal trash can		x 32	
55-gal drum		x 55	
Total Spill Volume Recovered (gal)			

Notes:

METHOD 2: DURATION AND FLOW RATE

Line 1	Spill End Date and Time	Date:	Time:
Line 2	Spill Start Date and Time	Date:	Time:
Line 3	Total time elapsed of overflow (minutes) <i>(Subtract line 2 from line 1. Show time in minutes)</i>	Time Elapsed (minutes):	
Line 4	Average flow rate (GPM) Circle Below		
Line 5	Spill volume in gallons (Multiply Line 3 x Line 4)		

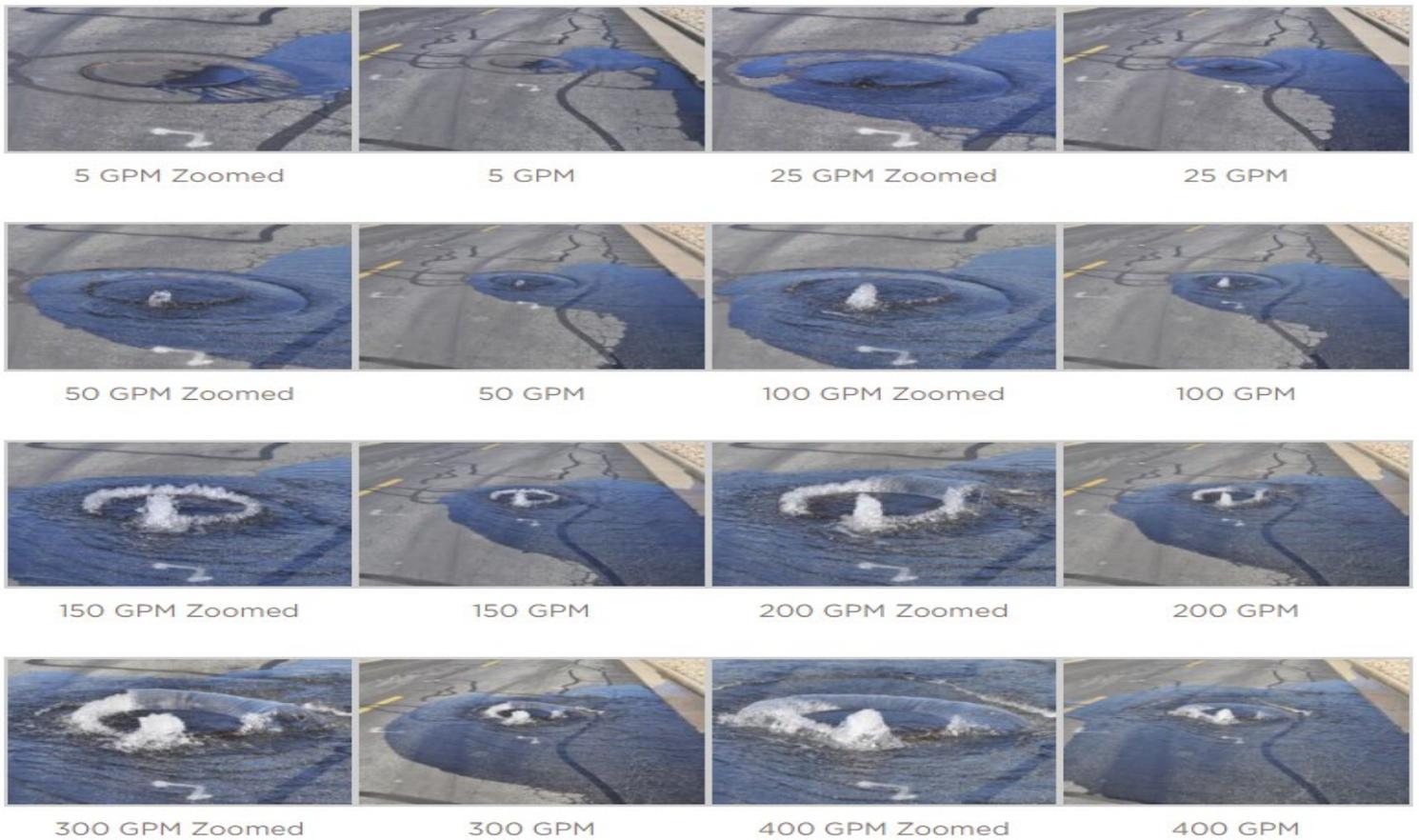


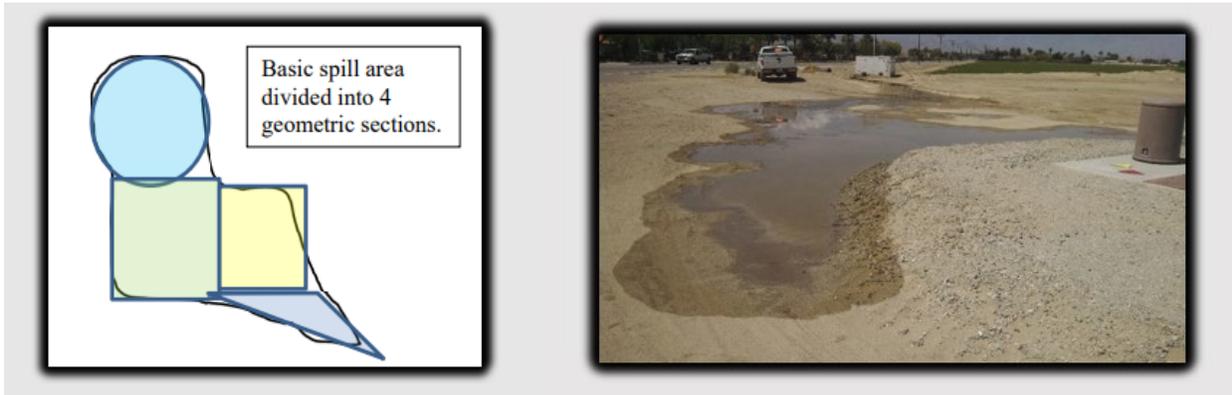
Figure 3 Photos by Jim Aanderud, SSCSC (Southern Sections Collection Systems Committee of CWEA). <https://www.cwea.org/news/wdr-compliance-sewer-spill-overflow-images>

METHOD 3: MEASURED VOLUME

STEP 3A: Describe spill area surface: Asphalt Concrete Dirt Landscape Inside Building

Other: _____

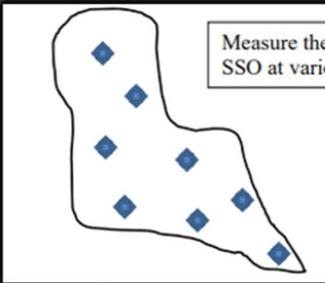
STEP 3B: Draw/sketch the outline (footprint) of the spill. Then break the footprint down into recognizable shapes. Label/identify each sketch outline area, with various depths (See example below).



Labeled Drawing: INSERT PICTURE or SKETCH DRAWING

Step 3C Calculation of Volume Using Measured Volume, continued next page.

STEP 3C: Calculate the area of the footprint by completing the table below for each area illustrated in Step 3B. Measure actual depth of standing sewage whenever possible. When depth varies, measure several representative sample points, and determine the average. If the depth is not measurable because it is only a wet stain, use the following estimated depths, and use additional paper if necessary:



Measure the depth of the SSO at various locations.

Where it is difficult to measure wet spots on asphalt, use a depth of **0.0026'** or **1/32"**

For wet spots on concrete use depths of **0.0013'** or **1/64"** for reasonable estimates



Inches	to Feet
1/8"	= 0.01'
1/4"	= 0.02'
3/8"	= 0.03'
1/2"	= 0.04'
5/8"	= 0.05'
3/4"	= 0.06'
7/8"	= 0.07'
1"	= 0.08'
2"	= 0.17'
3"	= 0.25'
4"	= 0.33'
5"	= 0.42'
6"	= 0.50'
7"	= 0.58'
8"	= 0.67'
9"	= 0.75'
10"	= 0.83'
11"	= 0.92'
12"	= 1.00'

**Average equals the sum of a set of numbers divided by the count which is the number of the values being added*

Sewer Spill Estimation: Orange County Area Water Discharge Requirements Steering Committee Orange County, CA February 18, 2014 Revised May 15, 2014

Rectangles:

Area # (from labeled drawing)		Length	X	Width	X	% Wet	=	Area	X	Depth	=	Volume
	→	ft	X	ft	X	%	=	ft ²	X	ft	=	ft ³
	→	ft	X	ft	X	%	=	ft ²	X	ft	=	ft ³
	→	ft	X	ft	X	%	=	ft ²	X	ft	=	ft ³
	→	ft	X	ft	X	%	=	ft ²	X	ft	=	ft ³

Circles:

Area # (from labeled drawing)		π	X	Radius	X	Radius	X	% Wet	=	Area	X	Depth	=	Volume
	→	3.14	X	ft	X	ft	X	%	=	ft ²	X	ft	=	ft ³
	→	3.14	X	ft	X	ft	X	%	=	ft ²	X	ft	=	ft ³
	→	3.14	X	ft	X	ft	X	%	=	ft ²	X	ft	=	ft ³
	→	3.14	X	ft	X	ft	X	%	=	ft ²	X	ft	=	ft ³

Step 3D - Calculation of Volume Using Measured Volume, continued next page.

STEP 4 Spill Location Details

- Fill in the rest of the form as completely as possible. Return the completed with photos/videos before the end of your shift or as reasonably possible.

RESPONSE CREW (List all names along with their department or company)			
Geo and Asset Number/ID			
Description of sewer pipe at point of blockage or failure	Diameter: Material:	Estimated Asset Age:	
Additional appearance Points?*	<input type="checkbox"/> Yes; Add all appearance points information to the Description of Appearance Point section below. <input type="checkbox"/> No		Total Appearance Points:
Spill Appearance Point (Select all that apply)	<input type="checkbox"/> Forced Main <input type="checkbox"/> Gravity Mainline <input type="checkbox"/> Inside Building/Structure <input type="checkbox"/> Backflow Prevention Device	<input type="checkbox"/> Lateral Clean Out <input type="checkbox"/> Lateral <input type="checkbox"/> Lateral (Private) <input type="checkbox"/> Manhole	<input type="checkbox"/> Lift Station <input type="checkbox"/> Other (specify):
Description of Spill Appearance Point (additional)			
Final Spill Destination (Select all that apply)	<input type="checkbox"/> Surface Water <input type="checkbox"/> Storm Drain <input type="checkbox"/> Drainage Channel <input type="checkbox"/> Drainage Channel – Connected to Surface Water	<input type="checkbox"/> Building or Structure <input type="checkbox"/> Groundwater Infiltration Facility <input type="checkbox"/> Street/Curb and Gutter	<input type="checkbox"/> Paved Surface <input type="checkbox"/> Unpaved Surface <input type="checkbox"/> Other (specify):
Description of Spill Event Destination (additional)	Latitude: Longitude:		
Was the spill associated with a storm event?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

*In the description section, include GPS coordinates if available that represent the full spread and reach of the spill point, including and additional to coordinates provided Step 1 Spill Information and if applicable Step 2 Supplemental Category 1 Spill Reporting Information. Use the following two examples to record coordinates: Continual spread locations, Example 1: (33.92491-116.52450 to 33.92491-116.52383) and Single Point Spills, Example 2: (33.92491-116.52450).

STEP 4 (cont.) Spill Cause and Response Activities

- Fill in the rest of the form as completely as possible. Return the completed form to finalize the CVWD Spill Report with photos/videos before the end of your shift or as reasonably possible.
- Authorized staff shall follow reporting requirements for the specified spill category.

Spill Cause	<input type="checkbox"/> Air Relief Valve (ARV) <input type="checkbox"/> Construction Diversion Failure <input type="checkbox"/> CVWD Staff Caused Spill or Damage <input type="checkbox"/> Damage by Other Not Related to CVWD Construction / Maintenance (specify): <input type="checkbox"/> Debris from Construction <input type="checkbox"/> Debris from Lateral <input type="checkbox"/> Debris – General <input type="checkbox"/> Debris – Rags <input type="checkbox"/> Flow Exceeded Capacity <input type="checkbox"/> Grease Deposition (FOG) <input type="checkbox"/> Inappropriate Discharge to System	<input type="checkbox"/> Natural Disaster <input type="checkbox"/> Non-Dispersible <input type="checkbox"/> Operator Error <input type="checkbox"/> Pipe Structural Problem / Failure <input type="checkbox"/> Pipe Structural Problem / Failure – Installation <input type="checkbox"/> Lift Station Failure – Controls <input type="checkbox"/> Lift Station Failure – Mechanical <input type="checkbox"/> Lift Station Failure – Power <input type="checkbox"/> Rainfall Exceeded Design <input type="checkbox"/> Root Intrusion <input type="checkbox"/> Siphon Failure <input type="checkbox"/> Vandalism <input type="checkbox"/> Other (specify):	
Where did the failure occur?	<input type="checkbox"/> Air Relief Valve (ARV) <input type="checkbox"/> Force Main <input type="checkbox"/> Gravity Mainline <input type="checkbox"/> Lateral <input type="checkbox"/> Manhole	<input type="checkbox"/> Lift Station - Controls <input type="checkbox"/> Lift Station – Mechanical <input type="checkbox"/> Lift Station – Power <input type="checkbox"/> Siphon <input type="checkbox"/> Other (specify):	
Spill Response Activities (check all that apply)	<input type="checkbox"/> Cleaned up <input type="checkbox"/> Mitigated effects of spill <input type="checkbox"/> Contained all or portion of spill <input type="checkbox"/> Restored flow <input type="checkbox"/> Returned all spill to sanitary sewer system	<input type="checkbox"/> Returned portion of spill to sanitary sewer system <input type="checkbox"/> Property owner/building occupants notified <input type="checkbox"/> Vendor engaged for plumbing, restoration, or cleanup assistance <input type="checkbox"/> enforcement agency notified	
Spill Corrective Action Taken (check all that apply)	<input type="checkbox"/> Added sewer to preventative maintenance program <input type="checkbox"/> Adjusted schedule/method of preventative maintenance <input type="checkbox"/> Enforcement action against source	<input type="checkbox"/> Inspected sewer using CCTV to determine cause <input type="checkbox"/> Plan rehabilitation or replacement of sewer <input type="checkbox"/> Repaired facilities or replaced defect <input type="checkbox"/> Other (specify):	
Is there an on-going investigation?	<input type="checkbox"/> Yes; describe the reason and expected date of completion: <input type="checkbox"/> No		
Name of receiving water	<input type="checkbox"/> Whitewater River <input type="checkbox"/> CVSWC <input type="checkbox"/> Salton Sea	<input type="checkbox"/> Coachella Canal <input type="checkbox"/> Lake Cahuilla <input type="checkbox"/> Salton Sea	<input type="checkbox"/> Other (specify):

7. Mathematical Formulas for Spill Estimation

<p>To convert inches to feet</p> <p>(NOTE: for the purposes of this worksheet, the unit of measurement will be in feet for formula examples)</p>	<p>Divide the inches by 12 or use the chart on the right.</p> <p>Example 1: $27" \div 12 = 2.25'$</p> <p>Example 2: $1\frac{3}{4}" = ?'$</p> <p>$1" (0.08') + \frac{3}{4}" (0.06') = 0.14'$</p>
<p>Volume of one cubic foot</p>	<p>7.48 gallons of liquid</p>
<p>Area:</p> <p>Two-dimensional measurement represented in square feet (SQ/FT or ft²)</p>	<p>Square/rectangle: Area = Length x Width</p> <p>Circle: Area = $\pi \times r^2$ (where $\pi \approx 3.14$ and $r = \text{radius} = \frac{1}{2} \text{ diameter}$)</p> <p>Triangle: Area = $\frac{1}{2} (\text{Base} \times \text{Height})$</p>
<p>Volume:</p> <p>Three-dimensional measurement represented in cubic feet (CU/FT or ft³)</p>	<p>Rectangle/square footprint: Volume = Length x Width x Depth</p> <p>Circle footprint (cylinder): Volume = $\pi \times r^2 \times \text{Depth}$ (where $\pi \approx 3.14$ and $r = \text{radius} = \frac{1}{2} \text{ diameter}$)</p> <p>Triangle footprint: Volume = $\frac{1}{2} (\text{Base} \times \text{Height}) \times \text{Depth}$</p>
<p>Depth:</p> <p>Wet Stain on Concrete or asphalt surface</p>	<p>If the depth is not measurable because it is only a wet stain, use the following estimated depths:</p> <ul style="list-style-type: none"> ○ Depth of a wet stain on concrete surface: 0.0026' (1/32") ○ Depth of a wet stain on asphalt surface: 0.0013' (1/64") <p>These were determined to be a reasonable depth to use on the respective surfaces through a process of trial and error. One gallon of water was poured onto both asphalt and concrete surfaces. Once the area was determined as accurately as possible, different depths were used to determine the volume of the wetted footprint until the formula produced a result that (closely) matched the one gallon spilled. This process was repeated several times.</p>
<p>Depth:</p> <p>Contained or "Ponded" sewage</p>	<p>Measure actual depth of standing sewage whenever possible. When depth varies, measure several representative sample points, and determine the average. Use that number in your formula to determine volume.</p>

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8. Customer Sewer Backup Response



Figure 4 2017 Marrakesh Country Club, Customer Sewer Backup Lateral Repair

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STEP 1 Customer Sewer Backup Response Worksheet

- Complete this form only if there is a spill as a result of a backup into a residence or business.
- (Attach photographs)

Did the back-up cause a spill that entered or has the potential to reach a drainage conveyance?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
---	---

STOP **If yes, immediately contact an Emergency Coordinator and start a Spill Response Form first, then complete this form.

Name and ID No. of First Responder completing this form	Name:	ID:
NG Work Order Number(s)		
WF Work Order Number(s)		
GEO Location		
Address		
City		
Resident Name:		
Owner?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Customer ID (If available)	ID:	Tel.:
Concern Date and Time	Date:	Time:
First Responder's Date and Time of Arrival on Scene	Date:	Time:
Was the customer sewer back up a result of failure or blockage in the CVWD collection system?	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
Was the customer sewer back up a result of failure or blockage in a private system or private sewer lateral (PSL)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
Have there ever been any previous spills at this location?	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
Is the pipeline segment where the sewer service connection working as per design?	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
Were pipe segments affected, inspected?	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
Type of Inspection:	<input type="checkbox"/> CCTV Video Inspection <input type="checkbox"/> Quick View Camera <input type="checkbox"/> Visual Inspection – Photographs (Camera or Cell)	
Were pipe segments affected inspected?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Type of Inspection:	<input type="checkbox"/> CCTV Lateral Video Inspection – LAUNCH <input type="checkbox"/> CCTV Lateral Push Camera Video Inspection <input type="checkbox"/> Visual Inspection – Photographs (Camera or Cell)	
CVWD Assets and Associated Numbers:		

STEP 2 Private Property Assessment

- If safe, attempt to contact the customer; contact customer via phone number provided.
- Identify all spill points and damage in private property.
- Take photographs of easement areas and from public areas and roadways affected and not affected by the sewer backup.
- If the affected customer is not present, leave a door hanger and photograph for validation of contact.
- See provided Flow Charts in Appendix A for additional guidance when responding to a sanitary sewer spill.

<ul style="list-style-type: none"> • Customer declined contact or to provide any information: 	<input type="checkbox"/> Declined	Date:	Time:
---	-----------------------------------	-------	-------

STOP ** If declined, proceed to Step 4

Backup Spill Point (Private property)	<input type="checkbox"/> Toilet <input type="checkbox"/> Shower/Tub <input type="checkbox"/> Floor Drain	<input type="checkbox"/> Washer <input type="checkbox"/> Pump/lift station <input type="checkbox"/> Sink	<input type="checkbox"/> Cleanout <input type="checkbox"/> Other
Backup affected the following areas (check all that apply)	<input type="checkbox"/> Bathroom <input type="checkbox"/> Hallway <input type="checkbox"/> Kitchen <input type="checkbox"/> Bedroom	<input type="checkbox"/> Garage <input type="checkbox"/> Crawlspace <input type="checkbox"/> Front yard <input type="checkbox"/> Back yard	<input type="checkbox"/> Side Yard - Right <input type="checkbox"/> Side Yard - Left <input type="checkbox"/> Basement <input type="checkbox"/> Other
Backup affected the following customer materials:	<input type="checkbox"/> Tile <input type="checkbox"/> Wood Flooring <input type="checkbox"/> Furniture	<input type="checkbox"/> Carpet <input type="checkbox"/> Area Rug <input type="checkbox"/> Personal Belongings	<input type="checkbox"/> Walls <input type="checkbox"/> Landscaping <input type="checkbox"/> Other
Photographs or video of private areas and/or materials:	<input type="checkbox"/> No photographs – Customer refused to allow access <input type="checkbox"/> Photographs obtained <input type="checkbox"/> CCTV inspection of private sewer lateral		

Recommendations to customers to clean up the spill:

- Consider contracting a professional cleaning and decontamination service.
- Keep pets and children out of the affected area.
- Wear personal protective equipment such as rubber boots, rubber gloves, and goggles during cleanup of the affected area.
- Remove and discard items that cannot be washed and disinfected (such as: mattresses, rugs, cosmetics, baby toys, etc.)
- Thoroughly clean all hard surfaces with hot water and laundry or dish detergent.
- Help the drying process with fans, air conditioning units, and dehumidifiers.
- After completing the cleanup, wash your hands with soap and water.
- Wash clothes contaminated with flood or sewage water in hot water and detergent. Use a laundromat for washing large quantities of clothes and linens until your onsite wastewater system has been professionally inspected and serviced.
- Seek immediate attention if you become injured or ill.
- Clean and disinfect your personal protective equipment.

STEP 3 Customer Sewer Backup Communication

- Provide customer with “Understanding Your Private Sewer Lateral Handout”.



Handouts are also available in Spanish. Both are included in the SMMP (Attachments).

STEP 4 Customer Sewer Backup Report Completion

- Complete Incident Report and provide it to the immediate Supervisor or Manager
- If requested, inform the customer to contact Risk Management – Claims for further review.

Customer Backup Response Completion Date and Time	Date:	Time:
Name of First Responder	Name:	EMP No:

- CC Risk Management in the Right Signature email: IncidentReports@cvwd.org
- CC Collection Systems in the Right Signature email: CollectionSystems@cvwd.org
- Attach this list to the completed Sewer Spill Backup Response Workbook and Spill Report, if applicable

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Appendix A

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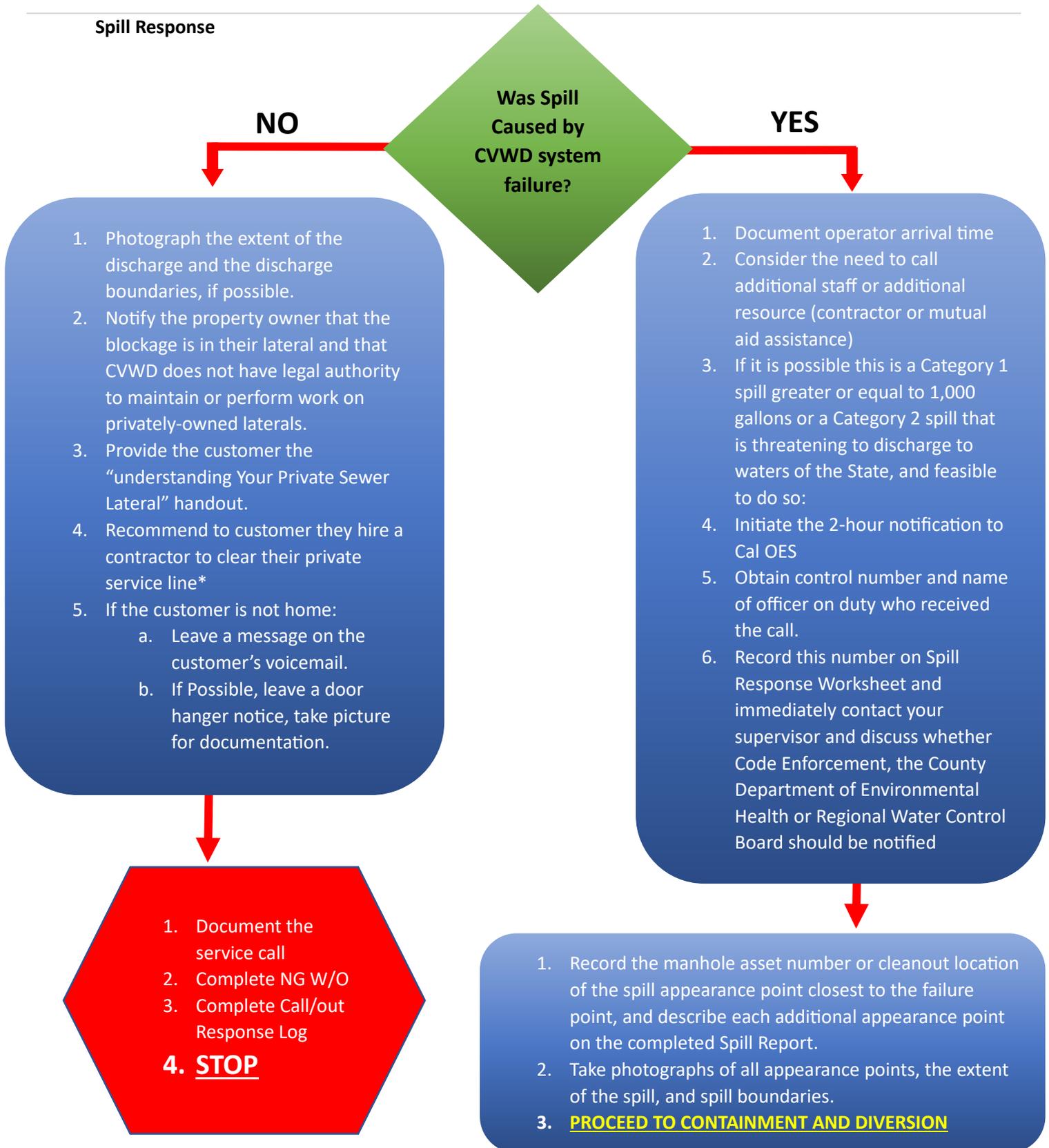
Spill Response Workbook – Flow Charts

The following flow charts can be utilized as a supplemental tool for direction when responding to an active sanitary sewer spill, steps to mitigate impact, how to place sanitary sewer system back to normal operations, and responding to private sanitary issues:

Spill Response	<ul style="list-style-type: none">• Was the spill caused by a CVWD system failure?
Containment and Diversion	<ul style="list-style-type: none">• Block or divert flow• Determine the cause
Water Quality and Recovery	<ul style="list-style-type: none">• Did Spill reach surface waters?• Can spilled sewage be contained and/or recovered?
Drainage Conveyance System Impact	<ul style="list-style-type: none">• Was a drainage system conveyance system impacted?
Customer Sewer Backup Private Property	<ul style="list-style-type: none">• Did spill events impact private property?

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Spill Response



* If the Property owner is unable or unwilling to address the cause of the SSS, immediately contact your supervisor and discuss with the Environmental Compliance Department or other regulatory agency.

CONTAINMENT AND DIVERSION

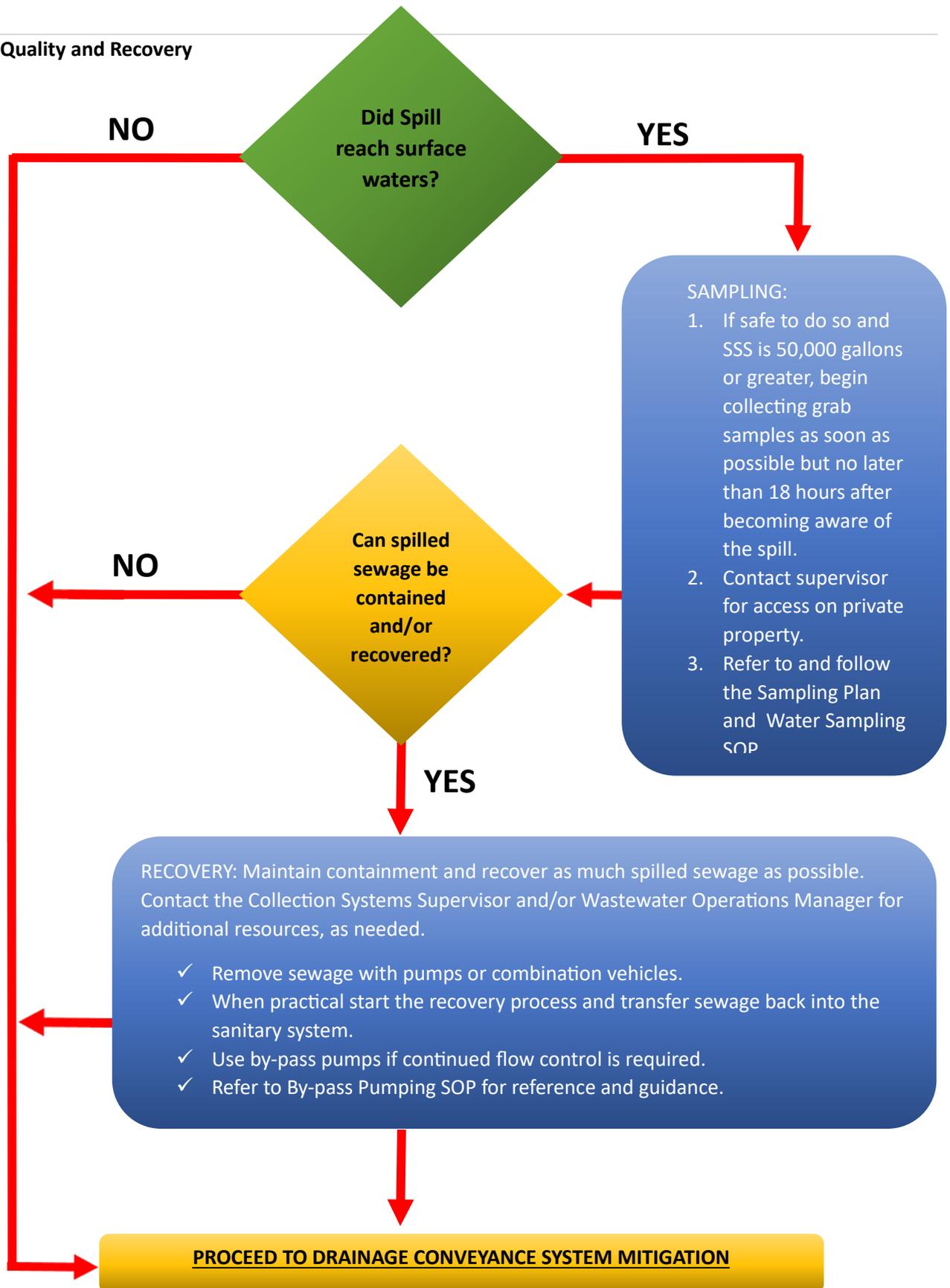
1. If possible, block or divert flow away from a drainage conveyance entry point(s), or other sensitive areas.
2. Means and Methods:
 - a. Berms and dikes
 - b. Rubber Mats
 - c. Air plugs
 - d. Other
3. Plug drainage conveyance system downstream. Utilizing air plugs, sandbags, or vacuum truck.
4. For a pressurized sewer force main, utilize the Sewer Force Main (SFM) Response SOP for guidance when responding to a broken SFM pipeline.
5. PHOTOGRAPH each drainage conveyance entry location.

1. ADDRESS THE CAUSE OF THE ISSUE

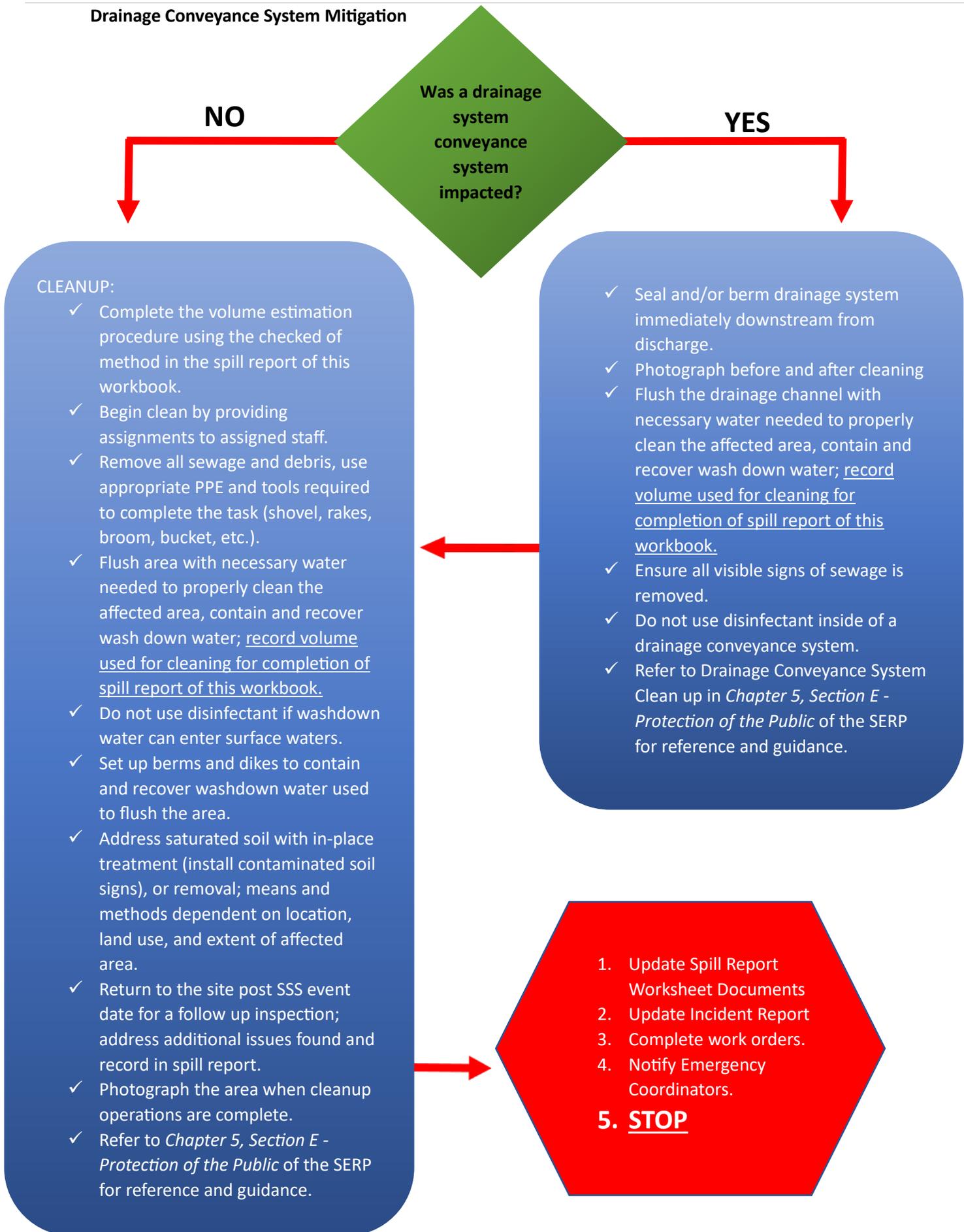
- a. Gravity Sewer Main
 - i. Identify the location of the obstruction or failure in the pipe segment.
 - ii. Hydro-jet line and remove blockage.
 - iii. Catch /remove debris that could cause another stoppage.
 - iv. After stoppage is relieved and flow is normal, clean line thoroughly.
 - v. Consider inspecting the pipe segment (CCTV) for confirmation.
- b. For the response/restoration of flow of a lift station or pressurized sewer force main, utilize the Sewer Force Main (SFM) Response SOP and site specific Lift Station Emergency Response Plan for guidance when responding to a broken SFM pipeline.
- c. PHOTOGRAPH all actions and activities during the response process.

PROCEED TO WATER QUALITY AND RECOVERY (Pg. 20)

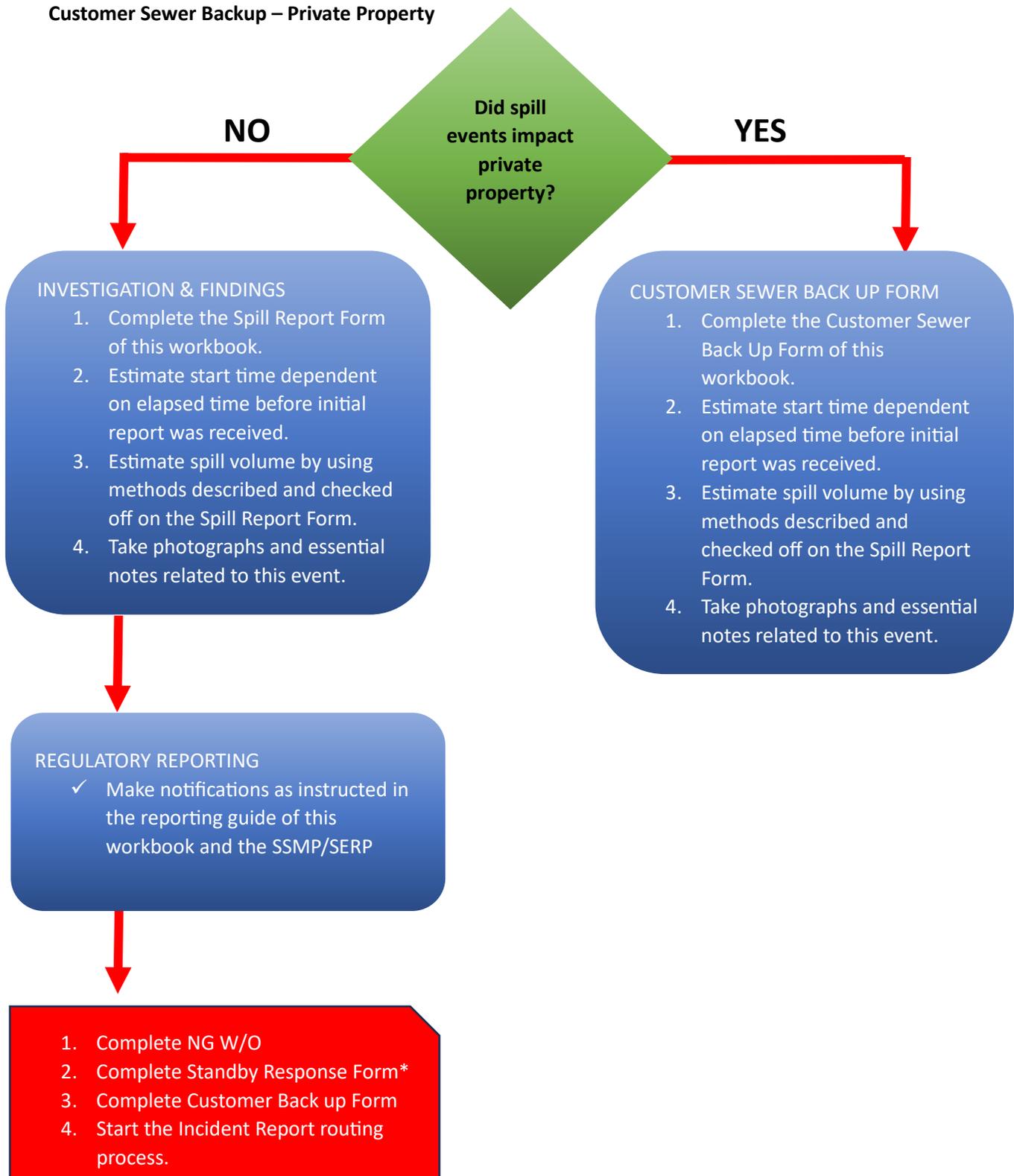
Water Quality and Recovery



Drainage Conveyance System Mitigation



Customer Sewer Backup – Private Property



*Standby response forms are routinely emailed after every standby call-out performed by Operations staff.

Coachella Valley Water District



ATTACHMENT C: Spill Report Form

STEP 1

CVWD Sanitary Sewer Spill Report



Attach to Incident Report and include all supporting information to the report.

Immediately start notification process (within 2-hours) for Category 1 and Category 2 (if threatening to discharge to surface waters)

Agency:	Coachella Valley Water District		CATEGORY _____	
WDID:	7SSO10535			
CIWQS Spill ID:	<input type="text"/>	Spill Date:		<input type="text"/>
OES Control No:	<input type="text"/>	<input type="checkbox"/> Not Applicable		
Primary Enrollee Contact Person:	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Primary contact phone number:	<input type="text"/>			
Spill Location Name:	<input type="text"/>			
Did the discharge touch any body of water or drainage?	<input type="text"/>			
Did the spill discharge to a drainage channel and/or surface water?	<input type="text"/>			
Did the spill reach a storm drainage pipe that is not part of a combined sewer system?	<input type="text"/>			
If spill reached a separate storm drainpipe was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system?	<input type="text"/>			

Spill Volume Summary

Estimated total spill volume to reach surface water	Gallons
Estimated Total spill volume discharged to land	Gallons
Estimated total spill volume recovered	Gallons
Estimated total spill loss to sepage or evaporation	Gallons
Estimated total spill volume	Gallons

Asset Information

1 - Spill Location Name and address: 1a - GEO Number(s): 1b - Asset Number(s): 1c - Upstream Manhole Number: 1d - Downstream Manhole Number:	<input type="text"/>	<input type="text"/>
	<i>Street, City</i>	<i>Zip Code</i>
	<input type="text"/>	<input type="checkbox"/> Not Applicable
	<input type="text"/>	<input type="checkbox"/> Not Applicable
	<input type="text"/>	<input type="checkbox"/> Not Applicable
<input type="text"/>	<input type="checkbox"/> Not Applicable	

Estimated Spill Volume Details

Estimated spill volume that reached a separate storm drain that flows to a Surface water body:	<input type="text"/>
Estimated spill volume recovered from the separate storm drain that flows to a surface water body: (do not include water used for clean-up)	<input type="text"/>
Estimated spill volume that reached a drainage channel that flows to a surface water body:	<input type="text"/>
Estimated spill volume recovered from a drainage channel that flows to a surface water body:	<input type="text"/>
Estimated spill volume discharged directly to a surface water body:	<input type="text"/>
Estimated spill volume recovered from surface water body:	<input type="text"/>
Estimated spill volume discharged to land? (included discharges directly to land, and discharges to a storm drain system or drainage channel that flows to a storm water infiltration/retention structure, field, or other non-surface water location.)	<input type="text"/>
Estimated spill volume recovered from discharge to land? (Do not include water used for clean up):	<input type="text"/>

Response Staff and Tasks Spill Details

1- Spill Location Name:	<input type="text"/>		
2a: NG Work Order Number(s):	<input type="text"/>		
2b - Name and title of First Responder:	<input type="text"/>	<input type="text"/>	<input type="text"/>
2c - First Responder phone Number:	<input type="text"/>		
2d - Incident Commander (IC) On-Site:	<input type="text"/>	<input type="text"/>	<input type="text"/>
2e - IC phone number:	<input type="text"/>		
2f - Response Staff (Name(s) and EE#):	<input type="text"/>		
2g - Pictures of SSS event saved to file:	<input type="text"/>	<i>(If incomplete, In Process, Pending Specify Below)</i>	
2h - Description to Pictures;	<input type="text"/>		
	<i>Required if answer for question 1h is not completed or not applicable</i>		
2i - CCTV Inspection Completed:	<input type="text"/>	<i>(If incomplete, In Process, Pending Specify Below)</i>	
2h - Description to CCTV Inspection;	<input type="text"/>		
	<i>Required if answer for question 1j is not completed or not applicable</i>		

STEP 2 Notification

- Follow notification requirement as per the regulatory requirement dictates for respective spill category.

3 - Sanitary sewer system agency was notified of or discovered:

4 - Estimated Operator Arrival Date/Time:

4 - Response Time:

5 - Estimated Spill Start Date/Time:

5b - Estimated Spill End Date/Time:

6 - Cal OES Called Date/Time:

6a - Cal OES Control Number:

Date		Time
<input type="text"/>	[MM/DD/YYYY]	<input type="text"/> HRS
<input type="text"/>	[MM/DD/YYYY]	<input type="text"/> HRS
MINUTES		
<input type="text"/>	[MM/DD/YYYY]	<input type="text"/> HRS
<input type="text"/>	[MM/DD/YYYY]	<input type="text"/> HRS
<input type="text"/>	[MM/DD/YYYY]	<input type="text"/> HRS
<input type="checkbox"/> Not Applicable		

STEP 3 Spill Location Details

- Provide accurate location details and take photographs to document spill locations.

7 - Description, photographs, and GPS coordinates of the system location where the spill originated: If a single spill event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the spill appearance point explanation field:

Photographs are required and shall be included with the report.

7a - Latitude of Spill Location

7b - Longitude of Spill Location

7c - Spill Appearance Point:

- | | | |
|--|---|---------------------------------------|
| <input type="checkbox"/> Non-CVWD Asset | <input type="checkbox"/> Combined Sewer Inlet | <input type="checkbox"/> Backflow |
| <input type="checkbox"/> Forced Main | <input type="checkbox"/> Air Relief Valve | <input type="checkbox"/> Lift Station |
| <input type="checkbox"/> Gravity Main | <input type="checkbox"/> Manhole | <input type="checkbox"/> Structure |
| <input type="checkbox"/> Clean Out | <input type="checkbox"/> Cleanout (Private) | <input type="checkbox"/> Building |
| <input type="checkbox"/> Private Sewer Later | <input type="checkbox"/> CVWD Sewer Lateral | <input type="checkbox"/> Other |

Select all that apply, if other describe below

7d - If other, describe;

Required if answer for question 7c is "Other"

7e - Additional spill appearance point(s) explanation:

Use additional paper and attach if necessary.

STEP 4 Spill Volume Estimation

- Select estimation method and provide estimate of the spill volume and the recovered spill volume.

8 - Estimated total spill volume exiting the system:

8a Spill estimation method used:
(Attach method and notes to report)

8b Recovery estimation method:
(Attach method and notes to report)

8c - Estimated recovered spill volume:

8d - Estimated spill volume not recovered:

 Gallons

Eyeball Volume Formula Flowrate Other

Eyeball Volume Formula Flowrate Other

 Gallons Gallons

9 - Description and photographs of the extent of the spill and spill boundaries:

Photographs are required and shall be included with the report.

10 - Did the spill reach a drainage conveyance system?

SELECT YES or NO

10a -Description of the drainage conveyance system transporting the spill and photographs of the drainage conveyance system entry location(s):

Required if answer for question 10 is "Yes"; Photographs are required and shall be included with the report.

10b - Estimated spill volume fully recovered from the drainage conveyance system:

 Gallons

Not Applicable

10c - Estimated spill volume remaining within the drainage conveyance system:

 Gallons

Not Applicable

11 - Description and photographs of all discharge point(s) into the surface water:

Not Applicable

Photographs are required and shall be included with the report.

12 - Estimated spill volume that discharged to surface waters:

 Gallons

Not Applicable

13 - Estimated total spill volume recovered:

 Gallons

Not Applicable

STEP 5 Spill Destination Details

- Supporting information to identify the overall extent of the spill.

14 - Spill Destination:	<input type="checkbox"/> Building or Structure	<input type="checkbox"/> Drainage Conveyance System (DCS)
	<input type="checkbox"/> Paved Surface	<input type="checkbox"/> DCS that discharges to surface water
	<input type="checkbox"/> Street Curb/Gutter	<input type="checkbox"/> Ground Water Infiltration Basin or Facility
	<input type="checkbox"/> Surface Water	<input type="checkbox"/> Other, describe below:
	<i>Select all that apply, if other describe below</i>	
14a - If other, describe;	<div style="border: 1px solid black; height: 50px; width: 100%;"></div>	
	<i>Required if answer for question 14 is "Other"</i>	
14b - Description of the spill event destination(s), including GPS coordinates if available, that represent the full spread and reach of the spill:	<div style="border: 1px solid black; height: 60px; width: 100%;"></div>	
	<i>Enter "See Attachment" if supporting diagrams are provided</i>	
14c - Coordinates available?	<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">SELECT YES or NO</div>	
14d - Latitude:	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	
14e - Longitude:	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	
14f - Latitude:	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	
14g - Longitude:	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	
14h - Latitude:	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	
14i - Longitude:	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	
14j - Latitude:	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	
14k - Longitude:	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	
15 - Estimated Spill End Date/Time:	/ / [MM/DD/YYYY]	HOURS (24HR FORMAT)

STEP 6 Spill Narrative Details

- Supporting information required for certification of spill report; include diagrams, records, screenshots, aerial maps to support the spill report.

Methodology Narrative

16 - Description of how the spill volume estimations were calculated, including at a minimum:

See question 8 for details, attach diagrams and records as support for the narrative to the report, state "See Attachment" if necessary

16a - Description of the methodology(ies), assumptions and type of data relied upon for estimations of the spill start time and the spill end time:

See question 3-6 for details, attach diagrams and records as support for the narrative to the report, state "See Attachment" if necessary

Spill Cause

17 - Spill Cause:

- | | |
|--|---|
| <input type="checkbox"/> Debris - Construction | <input type="checkbox"/> Collection System Maintenance Failure |
| <input type="checkbox"/> Debris - Lateral | <input type="checkbox"/> Construction Diversion Failure |
| <input type="checkbox"/> Debris -General | <input type="checkbox"/> Damage by others; not related to CVWD PM's |
| <input type="checkbox"/> Debris - Rags | <input type="checkbox"/> Flow Exceeded Capacity (Separate Coll. System) |
| <input type="checkbox"/> Debris - Wipes | <input type="checkbox"/> Inappropriate Discharge to Collection System |
| <input type="checkbox"/> Debris - Non-Disposables | <input type="checkbox"/> Natural Disaster (Specify Below) |
| <input type="checkbox"/> Fats, Oils, Grease (FOG) | <input type="checkbox"/> Operator Error (Specify Below) |
| <input type="checkbox"/> LS Failure - Controls | <input type="checkbox"/> Pipe Structural Problem/Failure - Controls |
| <input type="checkbox"/> LS Failure - Mechanical | <input type="checkbox"/> Pipe Structural Problem/Failure - Mechanical |
| <input type="checkbox"/> LS Failure - Power | <input type="checkbox"/> Pipe Structural Problem/Failure - Power |
| <input type="checkbox"/> Root Intrusion | <input type="checkbox"/> Rainfall Exceeded Design (Inflow & Infiltration) |
| <input type="checkbox"/> Siphon Failure | <input type="checkbox"/> Surcharged Pipe (Combined System Only) |
| <input type="checkbox"/> Vandalism (Specify Below) | <input type="checkbox"/> Other (Specify Below) |

Select all that apply, if other describe below

17a - If other, describe:

Required if answer for question 17 is "Other"

18- System failure location:

- | | |
|--|---|
| <input type="checkbox"/> Force Main | <input type="checkbox"/> Air Relief Valve/Blow-Off Valve |
| <input type="checkbox"/> Gravity Mainline | <input type="checkbox"/> Lift Station/Pump Station Controls |
| <input type="checkbox"/> Manhole | <input type="checkbox"/> Lift Station/Pump Station Mechanical |
| <input type="checkbox"/> Siphon | <input type="checkbox"/> Lift Station/Pump Station Power |
| <input type="checkbox"/> Lateral (Specify Below) | <input type="checkbox"/> Other (Specify Below) |

Select all that apply, if other describe below

18a - If other, describe:

Required if answer for question 18 is "Other"

Asset Details

19 - Pipe material at the failure location:

- | | |
|---|--|
| <input type="checkbox"/> Cast Iron | <input type="checkbox"/> Acrylonitrile Butadiene Styrene (ABS) |
| <input type="checkbox"/> Concrete | <input type="checkbox"/> Cross-Linked Polyethylene (PEX) |
| <input type="checkbox"/> Copper | <input type="checkbox"/> Ductile Iron |
| <input type="checkbox"/> Galvanized Steel | <input type="checkbox"/> Fiberglass |
| <input type="checkbox"/> Vitrified Clay | <input type="checkbox"/> Other (Specify Below) |

Select all that apply, if other describe below

19a - If other, describe:

Required if answer for question 19 is "Other"

19b - Estimated age of sewer at the point of blockage or spill cause (if applicable):

 Years

Spill Impact

20 - Description of the impact of the spill:

Include spill impact diagram or pictures with attachments provided, if applicable

21 - Was the spill associated with a storm event?

SELECT YES or NO

21a - Spill Response Activities:

- | | |
|--|---|
| <input type="checkbox"/> Leaned Up (Specify Below) | <input type="checkbox"/> Contained All or Portion of Spill |
| <input type="checkbox"/> Property Owner Notified | <input type="checkbox"/> Returned All Spill to Sanitary System |
| <input type="checkbox"/> Restored Flow | <input type="checkbox"/> Returned Portion of Spill to Sanitary System |
| <input type="checkbox"/> Other Agency Notified | <input type="checkbox"/> Mitigated the Effects of Spill (Specify Below) |
| <input type="checkbox"/> Cleaned - Washdown | <input type="checkbox"/> Other (Specify Below) |

Select all that apply, if other describe below

21b - If other, describe:

Required if answer for question 21 is "Other"

21c - Description of spill response activities including description of immediate spill containment and cleanup efforts:

Include spill impact diagram or pictures with attachments provided, if applicable

Spill Corrective Actions

22 - Spill Corrective Actions:

- Added Sewer to Preventative Maintenance Program
- Adjusted Schedule/Method of Preventative Maintenance
- Enforcement action against Fats, Oil, and Grease (FOG) source
- Inspected sewer using CCTV to determine cause
- Plan Rehabilitation or Replacement of Sewer
- Post Spill CCTV
- Repaired Facilities or Replaced Defect
- Other (Specify Below)

Select all that apply, if other describe below

22a - If other, describe:

Required if answer for question 22 is "Other"

22b - Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent recurrence of the spill, and a

Include an outline as an attachment, if applicable

22c - Schedule of major milestones:

Include an outline as an attachment, if applicable

22d - Spill Response Completion:

[MM/DD/YYYY]

HRS

Post-Spill Investigative Actions

23 - Detailed narrative of investigation and investigation findings of cause of spill:

24 - Is there an ongoing investigation?

SELECT YES or NO

24a - Reason for ongoing investigation:

24b - Expected date of completion of investigation:

[MM/DD/YYYY]

Water Body Impacts

Not Applicable - Spill is not a CATEGORY 1

Skip to Step 6

25 - Name of receiving water body(s):

- Coachella Valley Storm Water Channel (CVSWC)
- Whitewater River
- Coachella Canal / Lake Cahuilla
- Salton Sea
- Other (Specify Below)

25a - Type of receiving water body(s):

Describe "type" of body of water selected

25b - If other, describe:

Required if answer for question 25 is "Other"

25c - Receiving water visual observations:

- Waterbody bank erosion
- Water Surface Sheen
- Floating Matter
- Discoloration
- No observable observations at the time of inspection (enter details below)
- Other (Specify Below)

25d - Date and time of inspection:

[MM/DD/YYYY]

HRS

Not Applicable

26 - Description of the water body(s):

Describe the body of water selected

26a - Observed impacts on aquatic life at the water body:

Describe how and what kind of aquatic life is impacted

26b - Public access impact:

Not Applicable

26c - If other, describe:

Required if answer for question 26b is "Other"

26d - Responsible entity for closing/restricting use of water body:

Not Applicable

26e - Number of days closed/restricted as a result of the spill:

Not Applicable

27 - Was the spill located within 1,000 feet of a municipal surface water intake?

Yes or No

Sampling Details

28 - Where water samples collected? *If not required select "Not Applicable" in yellow ribbon below*

28a - Was there water at the time of sampling? Yes or No Dry, Sampling cannot be completed

Take pictures of all sampling locations and document times

Not Applicable - Spill is not a CATEGORY 1 and over 50,000 gallons

If "Not Applicable", Skip to Step 6

28b - Where samples within 18 hours? *Yes or No*

28c - If "No", provide explanation:

Required if answer for question 28b is "No"

28d - Identify water body sample location

- | | |
|---|--|
| <input type="checkbox"/> River | <input type="checkbox"/> Drain |
| <input type="checkbox"/> Stream | <input type="checkbox"/> Basin |
| <input type="checkbox"/> Pond | <input type="checkbox"/> Manhole |
| <input type="checkbox"/> Lake | <input type="checkbox"/> Vault |
| <input type="checkbox"/> Irrigation Channel | <input type="checkbox"/> Other (Specify Below) |

Select all that apply, if other describe below

28e - If other, describe:

Required if answer for question 28d is "Other"

28f - Identify sample locations:

- | | |
|--|--|
| <input type="checkbox"/> DCS-001 Drainage Conveyance | <input type="checkbox"/> RSW-001U Upstream |
| <input type="checkbox"/> RSW-001 Source | <input type="checkbox"/> RSW-001D Downstream |
| <input type="checkbox"/> Dry, Sampling was not completed | <input type="checkbox"/> Other (Specify Below) |

Select all that apply, if other describe below

28g - If other, describe:

Required if answer for question 28f is "Other"

28h - Identify parameters the water quality samples analyzed for:

- | | |
|---|--|
| <input type="checkbox"/> NH3-N | <input type="checkbox"/> Dry, Sampling was not completed |
| <input type="checkbox"/> Total Coliform | <input type="checkbox"/> Other (Specify Below) |

Select all that apply, if other describe below

28i - If other, describe:

Required if answer for question 28h is "Other"

28j - Field Sample Tests:

- | | |
|--|--|
| <input type="checkbox"/> Electrical Conductivity | <input type="checkbox"/> Turbidity |
| <input type="checkbox"/> pH | <input type="checkbox"/> Dissolved Oxygen |
| <input type="checkbox"/> Temperature | <input type="checkbox"/> Other (Specify Below) |

Select all that apply, if other describe below

28k - If other, describe:

Required if answer for question 28j is "Other"

28l - Was Chain of Custody documentation completed and processed?

Yes or No

28m - If "No", provide explanation:

Required if answer for question 28l is "No"

28n - Sampling completed, date and time:

HRS Not Applicable

[MM/DD/YYYY]

Include chain of custody (COC) with a the technical report, if applicable

STEP 6 CIWQS Reporting and Internal Assessment

- Set Staff reminders for CIWQS Reporting and Internal Assessment.

Draft report due date:	<input type="text"/>	[MM/DD/YYYY]	<input type="checkbox"/> Created Event Reminder
Certified report due date:	<input type="text"/>	[MM/DD/YYYY]	<input type="checkbox"/> Created Event Reminder
Technical Reort due date:	<input type="text"/>	[MM/DD/YYYY]	<input type="checkbox"/> Created Event Reminder
Post-Spill Assessment due date:	<input type="text"/>	[MM/DD/YYYY]	<input type="checkbox"/> Created Event Reminder

(Internal Assessment - set your own date, recommended within 30 days after spill)

Category 1:	Submit Draft report within 3 business days of becoming aware of the spill and certify within 15 calendar days of spill end date. Submit Technical report within 45 days of spill end date for a spill of 50,000 gallons or more discharged to surface waters.
Category 2:	Submit Draft report within 3 business days of becoming aware of the spill and certify within 15 calendar days of spill end date.
Category 3:	Submit certified report within 30 calendar days after the end of the month in which the spill occurs.
Category 4:	Submit certified report within 30 calendar days of the end of the month of the estimated total spill volume exiting the sanitary sewer system, and the total number of all Category 4 spills.

Report Details Contact Person Information

Completed by:	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>		Date: <input type="text"/>
	<input type="text"/>		
Completed by Signature:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Contact Person Phone Number:	<input type="text"/>		
Authorized Staff Only			
Reviewed by:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Reviewer Signature:	<input type="text"/>		Date: <input type="text"/>
Reviewer Phone Number:	<input type="text"/>		
Certification LRO:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Certification LRO Signature:	<input type="text"/>		Date: <input type="text"/>
LRO Phone Number:	<input type="text"/>		
Name and Title (Contact person who can answer specific questions):	<input type="text"/>	<input type="text"/>	<input type="text"/>
Contact Person Phone Number:	<input type="text"/>		

Coachella Valley Water District



ATTACHMENT D: Post Spill Analysis



Post Spill Analysis Workbook

OPERATIONS AND MAINTENANCE - SANITATION

DATE:

PREPARED BY:

SIGNATURE:

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Post Spill Lessons Learned - Follow Up Meeting.....	14

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Step 1 Failure Analysis

- To be completed by Authorized Staff* only, attach the Incident Report and Spill Response Form for reference.

Failure Analysis Assessor	Name/ID:
----------------------------------	----------

**Identify additional assessors in an attached sign-in sheet included in this analysis.*

Sanitary Sewer Spill Information	
Name of Spill	
Event Date/Time	Date: <input type="text"/> Time: <input type="text"/>
CIWQS Event Number (if available)	
Spill Category	<input type="checkbox"/> Cat 1 <input type="checkbox"/> Cat 2 <input type="checkbox"/> Cat 3 <input type="checkbox"/> Cat 4
CVWD Work Order Numbers	
Location of Spill (e.g., Building Name, Cross Streets, Address)	<input type="text"/> <input type="text"/> <input type="text"/>
Volume Spilled	<input type="text"/>
Volume Recovered	<input type="text"/>
Cause(s)	<input type="text"/> <input type="text"/> <input type="text"/>
Additional Notes:	<input type="text"/>

***For additional details see the attached completed Incident Report and Spill Response Form associated with this event.*

Summary of Historical Information			
	Reason for Work	Causes	Date
Previous Inspection	<input type="text"/>	<input type="text"/>	<input type="text"/>
Previous Cleaning	<input type="text"/>	<input type="text"/>	<input type="text"/>
Previous CCTV Inspection	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Work	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Authorized Staff are Data Submitters and Legally Responsible Staff, may include assistant Supervisors and Crew Chiefs.*

***For additional details, attach documents with any relevant historical information with this report.*

Step 2 Post Spill Assessment

- Select each method and provide description in the observations section.

Spill Activities Assessment

- | | | | |
|--|---|---|--|
| <input type="checkbox"/> CCTV Inspection | <input type="checkbox"/> Corrective Repair | <input type="checkbox"/> System Inspection - Visual | <input type="checkbox"/> Update to SOP/Process |
| <input type="checkbox"/> Hydro-Jet (CLM) | <input type="checkbox"/> Corrective Replacement | <input type="checkbox"/> SCADA Analysis | <input type="checkbox"/> Other |

Summary of Post Spill CCTV Information

	<input type="checkbox"/> CCTV Completed Video Van	<input type="checkbox"/> CCTV Push Camera - M-Plus®	<input type="checkbox"/> Scheduled – Not Completed
	<input type="checkbox"/> CCTV Completed Quickview®	<input type="checkbox"/> Jet-Scan® Nozzle Camera	<input type="checkbox"/> No CCTV Required (describe below)
Inspection Date		Unit #	
CCTV Operator			
CCTV Reviewed by			
ATTACH ALL FIELD REPORTS RELATED TO THIS SPILL RESPONSE			
Assets Inspected			
Observations			

Summary of Post Spill Cleaning Information

	<input type="checkbox"/> Hydro-Jet Cleaning	<input type="checkbox"/> Scheduled	<input type="checkbox"/> Not Required
Cleaning Date		Unit #	
Assets Cleaned			

Summary of Post Spill Corrective Repairs Information			
	<input type="checkbox"/> Sewer Gravity Main	<input type="checkbox"/> Private Sewer Lateral	<input type="checkbox"/> Maintenance Hole
	<input type="checkbox"/> Sewer Force Main	<input type="checkbox"/> Sanitation Valve	<input type="checkbox"/> Water Reclamation Plant
	<input type="checkbox"/> Sewer Air-Vac	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Other (describe below)
Repair Date:		Repair Completion Date (if different):	
Other CVWD Staff involved in the repair:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Identify Interdepartmental Staff:			
Assets Repaired			
Does repair require CMMS Asset update(s)?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
QR Asset Code(s) to be Replaced:		New Asset QR Code(s):	
<i>Complete a list and attach to report if more asset codes required replacement.</i>			
New Asset Attributes and Information: <i>(Manufacturer Make, Model, Size, Etc.)</i>			
Does repair require GIS updating?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
<i>If yes, contact GIS for updating of the assets and locations.</i>			
Critical Parts and Materials Used			

Add to Capital Improvement Rehabilitation/Replacement List?	<input type="checkbox"/> Yes <input type="checkbox"/> No
--	--

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Step 3 Post Spill Questionnaire

Discuss the following questions during the lessons learned meeting:

NOTIFICATION AND COMMUNICATION PROCEDURES	
Were notification procedures adhered to?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were notification procedures effective?	<input type="checkbox"/> Yes <input type="checkbox"/> No
RESPONSE PROCEDURES	
Were response time goals met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were safety procedures adhered to?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were safety procedures effective?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were initial response procedures adhered to?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were initial response procedures effective?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were containment procedures adhered to?	<input type="checkbox"/> Yes <input type="checkbox"/> No

RESPONSE PROCEDURES (continued)	
Were containment procedures effective?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were clean up and recovery procedures adhered to?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were clean up and recovery procedures effective?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were sewer back up procedures adhered to?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were sewer back up procedures effective?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Were chain of custody procedures adhered to?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was failure analysis investigation performed and documented?	<input type="checkbox"/> Yes <input type="checkbox"/> No

REPORTING AND NOTIFICATION PROCEDURES

Were reporting and notification timeline requirements met?

 Yes No**DOCUMENTATION**

Was spill file created?

 Yes No

Was QA/QC performed to ensure field data matched CIWQS data?

 Yes No**RECOMMENDED CHANGES** N/A

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Step 4 Post Spill Recommendation- Assignments

RECOMMENDATIONS					
No Changes or Repairs Required	<input type="checkbox"/>	Check the box if no changes or repairs are required or assigned.			
	N/A	Assignee	Emp ID	Specific Actions	Completion Date
Change(s) to Spill Response Procedures	<input type="checkbox"/> N/A				
Change(s) to PM Schedules	<input type="checkbox"/> N/A				
Repair(s)/Replacement	<input type="checkbox"/> N/A				
Construction	<input type="checkbox"/> N/A				
Capital Improvement(s)	<input type="checkbox"/> N/A				
Training/SOP	<input type="checkbox"/> N/A				
GIS Update	<input type="checkbox"/> N/A				
CMMS Update	<input type="checkbox"/> N/A				
Miscellaneous Changes	<input type="checkbox"/> N/A				
Additional Comments or Notes					
Assessor Name	Signature	Title	Date		

Step 5 Post Spill Lessons Learned- Follow Up Meeting

Spill Name:	
Date:	
Time:	
Facilitator/s	

No.	Name (PRINT):	Signature:	Emp#:	Department:
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Attach multiple copies of sign-in sheets, if necessary.

Coachella Valley Water District



ATTACHMENT E: RWQCB Spill Notification Cert. Form

List of NPDES or Order Nos. for WRP's

Facility Name	NPDES or Board Order No.
WRP 1	Board Order No. R7-2013-0024
WRP 2	Board Order No. R7-2013-0025
WRP 4	NPDES No. CA0104973 Board Order No. R7-2023-0013
WRP 7	Board Order No. R7-2022-0009
WRP 10	Board Order No. R7-2024-0016

Whitewater River Region Principal Permittees

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Coachella Valley Water District



ATTACHMENT F: Sampling Plan

Coachella Valley Water District Water Quality Division Sanitary Sewer Spill Response Plan Sampling Plan



Sanitary Sewer Spill Response Plan Sampling Plan

Introduction/Scope:

This Sampling Plan (Plan) describes when sampling is to be performed by the Coachella Valley Water District (CVWD) when there is a Sanitary Sewer Spill (SSS) and what analyses are required. Sampling and analyses are determined based on regulatory requirements to best protect public health, beneficial uses of waters of the State, and the environment.

Regulatory Requirements:

- 1) Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, State Water Resources Control Board Order No. 2022-0103-DWQ (6/5/2023)

Section 3.1.3 Spill Technical Report for Individual Category 1 Spill in which 50,000 gallons or Greater Discharged into a Surface Water:

For any spill in which 50,000 gallons or greater discharged into a surface water, within **45 calendar days of the spill end date**, the Enrollee shall submit a Spill Technical Report that contains at a minimum the following Water Quality Monitoring information:

- Description of all water quality sampling activities conducted
- List of pollutants and parameters monitored, sampled and analyzed; as required in section 2.3
- Laboratory Results, including laboratory reports
- Detailed location map illustrating all water quality sampling points
- Other regulatory agencies receiving water sample results, if applicable.

Section 2.3.1. Receiving Water Visual Observations:

Enrollee shall gather and document the following information for spills discharging surface water:

- Estimated spill travel to the receiving water

- For spills entering a drainage conveyance system, estimated spill travel time from the point of entry into the drainage conveyance system to the point of discharge into the receiving water
- Estimated spill volume entering the receiving water
- Photography of:
 - Waterbody bank erosion
 - Floating matter
 - Water surface sheen (potentially from oil and grease)
 - Discoloration of the receiving water and
 - Impact to the receiving water

Section 2.3.2. Receiving Water – Water Quality Sampling Analysis¹:

“For sewage spills in which an estimated 50,000 gallons or greater are discharged into a surface water, the Enrollee shall conduct the following water quality sampling **no later than 18 hours after the Enrollee’s knowledge** of a potential discharge to a surface water:

- Collect one water sample each day of the duration of the spill at the following locations:
 - DCS-001: A point in a drainage conveyance system before the drainage conveyance system flow discharges into a receiving water
 - RSW-001: A point in the receiving water where sewage initially enters the receiving water
 - RSW-001U: A point in the receiving water, upstream of the point of sewage discharge, to capture ambient conditions absent of sewage discharge impacts. A minimum of 100 feet upstream.
 - RSW-001D: A point in the receiving water, downstream of the point of sewage discharge, where the spill material is fully mixed with the receiving water. A minimum of 100 feet downstream.
- If the receiving water has no flow during the duration of the spill, the Enrollee must report, “No Sampling Due To No Flow” for its receiving water sampling locations.

The Enrollee shall analyze the collected receiving water samples for the following constituents:

¹ This Sanitary Sewer Spill Response Plan (SSSRP) Sampling Plan implements the requirements of State Water Resources Control Board Order WQ 2022-0103-DWQ, the Statewide Waste Discharge Requirements General Order for Sanitary Sewer Systems (General Order), including the monitoring requirements of Attachment E1 of the General Order. The monitoring protocols required to conform to the General Order and which are implemented through this revised SSSRP Sampling Plan differ from previously applicable requirements that are no longer in effect and are no longer legally binding on CVWD, including, but not limited to, certain provisions set forth in CVWD’s 2015 Settlement Agreement and Mutual Release of Claims with California River Watch. The term of that agreement expired in or about 2019. CVWD has determined based on its professional judgment that the monitoring protocols set forth in this SSSRP Sampling Plan both meet the legal requirements of the General Order and most effectively provide CVWD with the specific and timely information needed to address impacts of a spill and thereby best protect public health, beneficial uses of waters of the State, and the environment.

- Ammonia
- Appropriate bacterial indicator per Basin Plan:
 - Total Coliform Bacteria
 - Fecal Coliform Bacteria
 - *E. coli*²
 - Enterococcus

If the Enrollee encounters access restrictions or unsafe conditions that prevents its compliance with spill response requirements or monitoring requires, the Enrollee shall provide documentation of access restrictions and/ or safety hazards in the technical report. Examples include: No flash warning has been issued, no storm conditions exist within the local watershed, and sufficient daylight exists to determine that unsafe flow conditions are not present upstream of the sampling locations when water sampling is needed.

Section 2.3.3. Water Quality Analysis Specification:

- Spill monitoring must be representative of the monitored activity
- Sample analysis must be conducted according to sufficiently sensitive test methods approved under 40 CFR Part 136 for the sample analysis of pollutants.
- The analysis of water quality samples required per this General Order must be performed by a laboratory that has accreditation... The State Water Board accredits laboratories through its Environmental Laboratory Accreditation Program (ELAP).

Go Kit:

Because sample events for qualifying SSS's cannot be predicted, a Go Kit is prepared so that a sampler team can be deployed within just a few minutes. The Go Kit includes:

- 1) A copy of this sampling plan
- 2) Two generic chain of custody forms (COCs) without laboratory information management system (LIMS) COC or Sample Identification numbers
- 3) Safety Data Sheets for preservatives present in sample bottles
- 4) Sample bottles for required samples
- 5) Extra sample bottles
- 6) Other personal protective equipment (PPE) and miscellaneous materials needed to perform the required sampling.

If there is sufficient time and someone is available, COCs should be generated from the LIMS so that the event is logged into the system. If not, the generic COC may be used and LIMS COCs can be generated by Environmental Services Department

² Per the Water Quality Control Plan for the Colorado River Basin Region dated March 30, 2023, *E. coli* was determined to be the most reliable indicator bacteria for protecting human health for the Coachella Valley Storm Water Channel.

(ESD) staff concurrent with or after sampling has been performed; then the generic COC can be attached to the LIMS-generated COC to preserve the field record.

Post-Sampling Procedures:

Once all samples have been collected, the samples will be delivered to CVWD’s laboratory at the Palm Desert location. On weekend and holidays, CVWD laboratory’s hours of operation are limited for sample drop offs. Please refer to lab staff’s email prior to weekend/holiday for specific times laboratory will be open on those days. CVWD’s laboratory will analyze the bacteriological samples at earliest available laboratory hours of operation and CVWD’s contract laboratory will analyze the ammonia sample. CVWD’s laboratory staff will handle releasing the ammonia sample to the contract laboratory, currently Babcock Laboratories Inc., on the next available business day.

CVWD Laboratory Contact	Babcock Laboratories, Inc. Contact
<p>Wil Gonzalez, Laboratory Director</p> <ul style="list-style-type: none"> • Phone: (760) 398-2651 ext. 2235 • Cell: (760) 895-0746 • Email: WGonzalez@cvwd.org <p>Address: 75-519 Hovley Lane East Palm Desert, CA 92211</p>	<p>Kayelani Marshall, Client Success Manager</p> <ul style="list-style-type: none"> • Phone: (951) 653-3351 ext. 163 • Email: KMarshall@babcocklabs.com <p>Alexis Harold, Project Manager</p> <ul style="list-style-type: none"> • Phone: (951) 653-3351 ext. 124 • Email: AHarold@babcocklabs.com <p>Deanna Tillman, Assistant Project Manager</p> <ul style="list-style-type: none"> • Phone: (951) 653-3351 ext. 125 • Email: DTillman@babcocklabs.com <p>Address: Babcock Laboratories, Inc. 6100 Quail Valley Court Riverside, CA 92507</p> <p>Phone: (951) 653-3351</p>

Coachella Valley Water District



ATTACHMENT G: Training Record Forms

COACHELLA VALLEY WATER DISTRICT SSMP-SERP TRAINING RECORD



Subject:			
Date:		Time:	
Location:			
Training length:	<i>(one sheet per training day)</i>		

Reason for Training <i>(Check that apply)</i>	
<input type="checkbox"/> Ongoing Training <input type="checkbox"/> Standard Operating Procedures <input type="checkbox"/> Regulatory Update <input type="checkbox"/> Policy Refresher	<input type="checkbox"/> Policy Update <input type="checkbox"/> Manufacturer's Recommendations <input type="checkbox"/> Performance Improvement Training <input type="checkbox"/> Other (Enter details in comment section)
Training Description:	
Comments:	

Training Method <i>(Check that apply)</i>	
<input type="checkbox"/> Classroom/Instructor <input type="checkbox"/> Tabletop Exercise <input type="checkbox"/> Field Exercise <input type="checkbox"/> Hands-On	<input type="checkbox"/> Computerized Training <input type="checkbox"/> Role Playing (Scenario) <input type="checkbox"/> Coaching/Mentoring <input type="checkbox"/> Mock Drill
Comments/Description:	

Qualifying Metric Medium <i>(Check that apply)</i>	
<input type="checkbox"/> Exam/Quiz <input type="checkbox"/> Field Assessment <input type="checkbox"/> Combination of qualifying metrics	<input type="checkbox"/> Participation <input type="checkbox"/> Attendance <input type="checkbox"/> Other (Describe below)
Comments/Description:	

Trainer/Instructor Information	
Name	
Title/Company	
Signature	

Additional Trainers/Instructors can also be identified in the attendance sign sheet attached.

COACHELLA VALLEY WATER DISTRICT SSMP-SERP TRAINING RECORD



Subject:			
Date:		Total Training Hours:	
Instructor:			
Title/Company:			

No.	Name (PRINT):	Signature:	Emp#:	Department:
1				
2				
3				
4				
5				
6				
7				
8				
9				
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26				
27				
28				

ALL training must be documented. Send a copy of this attendance sheet to Collection Systems Supervisor for recordkeeping compliance.

Coachella Valley Water District



ATTACHMENT H: Lift Station Contingency Plan

SITE NO.:

50-01

LOCATION:

**North Shore
Desert Beach Drive
And Sea View Drive**



MANUFACTURER: WEMCO TORQUE FLOW

PUMP DATA: (2) 4 x 11 M-Centrifugal

MOTOR DATA: Baldor

PUMP MODEL NO.: 4 x 11 M EVP

H.P.: 15

GPM: 250

PHASE: 3

TDH: 74 ft.

HERTZ: 60

APPROX. HOLDING TIME: 6-12 hours

VOLTS: 230/460

NEAREST OVERFLOW POINT: Unknown

STANDBY GENERATOR: YES
(At WRP #2) NO

PLAT SHEET: 7-10-34-3

MANHOLE NO.: Undetermined

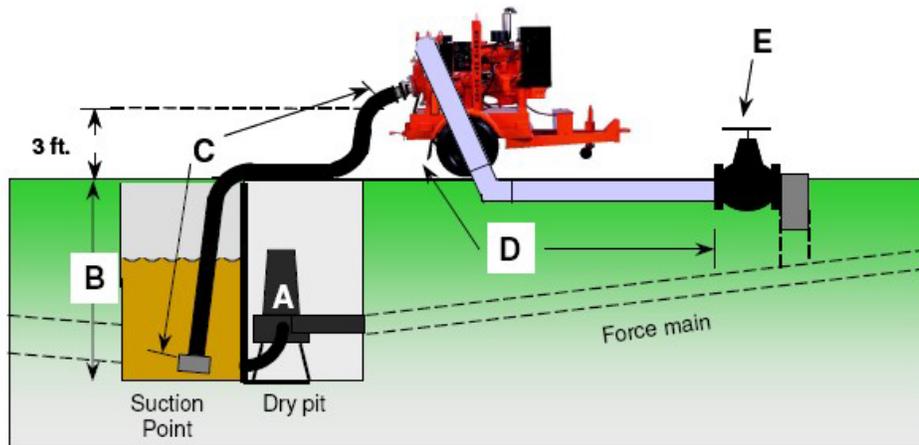
EMERGENCY BY-PASS : YES
NO



Lift Station By-Pass Contingency Plan

Municipality: Coachella Valley Water
Pump Station Name: 50-01
Pump Station Address: Desert Beach Drive North Shore, CA
Contact Name(s):
Phone #: 760-398-2651
Cross street Sea View Drive

Typical Lift Station Design



A. What is the existing lift station rated for? 250 GPM @ 32 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 14 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 20 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 50 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? Buried 6" Male Cam and Groove
Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
Godwin Pumps of America, Inc
11171 Harrel St.
Mira Loma Ca. 91752

Carmen Cordova
Office (951) 681-3636
Cell (562) 572-4738

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD103M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 4" 150# Flange Suction and Discharge • John Deere 4024T diesel engine • Skid-mounted, 80 gal fuel tank
B	1	Godwin Dri-Prime CD103M Diesel Pump <ul style="list-style-type: none"> • Stand-By Unit • 4" 150# Flange Suction and Discharge • John Deere 4024T Diesel Engine • GP60 highway trailer, 60 gal fuel tank
C	4	4" x 10' Black Water Suction Hose with Godwin QD Fittings
D	2	4" Godwin QD Step Bow
E	5	4" 90 Degree Godwin QD Bend
F	2	4" Check Valve with 150# Flange <ul style="list-style-type: none"> • with godwin QD
G	4	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
H	2	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand
I	1	4" Godwin QD Tee Female x Female x Male
J	1	6" FCG x 4" FQDadaptor

<i>ESTIMATED AILYENTAL TOTAL</i>	\$ 706.75
<i>ESTIMATED DELIVERY CHARGE</i>	\$ 500.00
<i>ESTIMATED PICKUP CHARGE</i>	\$ 500.00
<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.: 50-02

**LOCATION: North Shore
South of Tripoli Drive
on West Palm Avenue**



MANUFACTURER: ESSCO

PUMP DATA: 1 ea. 4" submersible

PUMP MODEL NO.: 493

GPM: 50

TDH: 60 ft.

APPROX. HOLDING TIME: 6-12 hours

NEAREST OVERFLOW POINT: Unknown

PLAT SHEET: 7-10-34-4

MANHOLE NO.: Undetermined

MOTOR DATA: Reliance

H.P.: 7.5

PHASE: 3

HERTZ: 60

VOLTS: 230

**STANDBY GENERATOR: YES
NO**

**EMERGENCY BY-PASS : YES
NO**

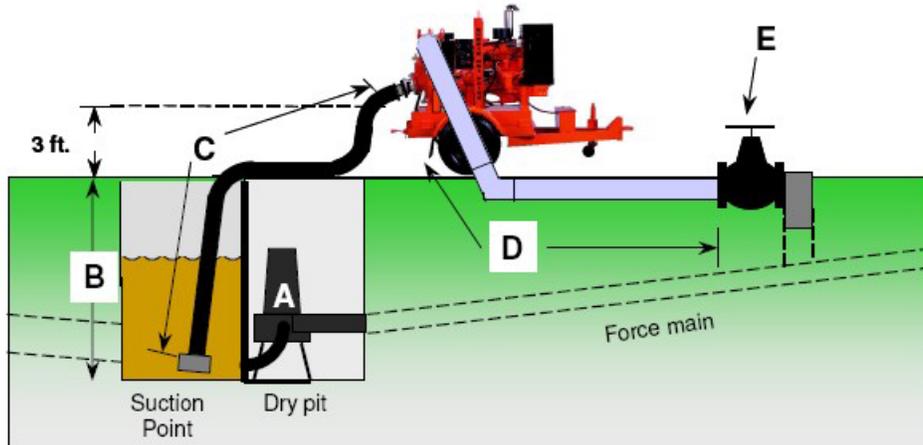


Lift Station By-Pass Contingency Plan

Coachella Valley Water

Municipality:	50-02
Pump Station Name:	Tripoli Drive
Pump Station Address:	North Shore, CA
Phone #:	760-398-2651
Contact Name(s):	Street West Palm Ave
Phone #:	

Typical Lift Station Design



A. What is the existing lift station rated for? 50 GPM @ 25.9 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 11 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 20 Feet.
Carmen Cordova

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 300 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? Down Stream Manhole
Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
Godwin Pumps of America, Inc
11171 Harrel St.
Mira Loma Ca. 91752

Carmen Cordova
Office (951) 681-3636
Cell (562) 572-4738

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION	
A	1	Godwin Dri-Prime CD103M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 4" 150# Flange Suction and Discharge • John Deere 4024T diesel engine • Skid-mounted, 80 gal fuel tank 	
B	1	Godwin Dri-Prime CD103M Diesel Pump <ul style="list-style-type: none"> • Stand-By Unit • 4" 150# Flange Suction and Discharge • John Deere 4024T Diesel Engine • GP60 highway trailer, 60 gal fuel tank 	
C	4	4" x 10' Black Water Suction Hose with Godwin QD Fittings	
D	2	4" Godwin QD Step Bow	
E	4	4" 90 Degree Godwin QD Bend	
F	2	4" Check Valve with 150# Flange <ul style="list-style-type: none"> • with godwin QD 	
G	9	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings	
H	2	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand 	
I	1	4" Godwin QD Tee Female x Female x Male	
		ESTIMATED DAILY RENTAL TOTAL	\$ 795.75
		ESTIMATED DELIVERY CHARGE	\$ 500.00
		ESTIMATED PICKUP CHARGE	\$ 500.00
		REQUIRED EXTRAS	\$ 0.00

SITE NO.: 51-01

LOCATION:

Bombay Beach

Lift Station By-Pass

Fifth Street and E Street

Contingency Plan



MANUFACTURER: HOMA

PUMP DATA: Pumps 1 & 2 Submersibles

MOTOR DATA: HOMA

PUMP MODEL NO.: AMX-310/34.5F

H.P.: 34.5

GPM: 345

PHASE: 3

TDH: 125'

HERTZ: 60

APPROX. HOLDING TIME: 6-10 hours

VOLTS: 460

NEAREST OVERFLOW POINT: MH @ L/ S site

STANDBY GENERATOR: YES
NO

PLAT SHEET: 9-12-33-2

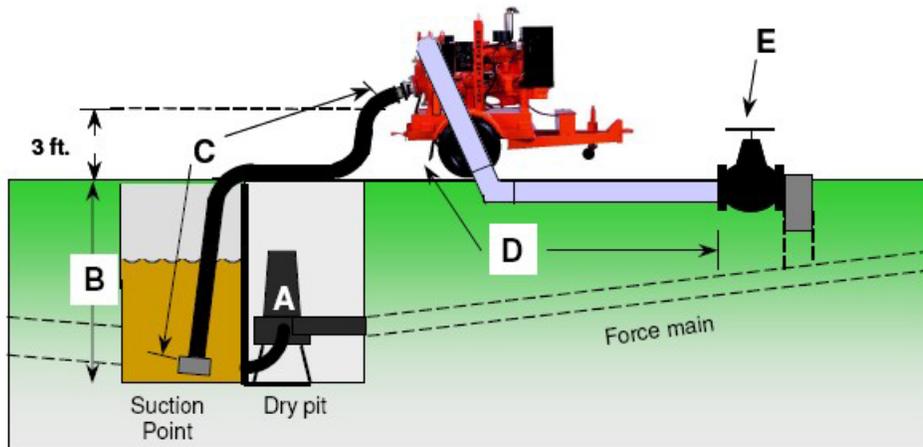
EMERGENCY BY-PASS : YES
NO

MANHOLE NO.: Sta. 2+20.01



Coachella Valley Water District
 51-01
 Fifth St and E St
 Bombay Beach, CA

Typical Lift Station Design



A. What is the existing lift station rated for? 345 GPM @ 55 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 17 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 50 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 6" 150# Flange
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St. Mira Loma Ca. 91752	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL		
ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD103M Critically Silenced Diesel Pump • Primary Unit <ul style="list-style-type: none"> • Sound Attenuated Enclosure • 4" 150# Flange Suction and Discharge • John Deere 4024T diesel engine • Skid-mounted, 80 gal fuel tank
B	1	Godwin Dri-Prime CD103M Diesel Pump • Stand-By Unit <ul style="list-style-type: none"> • 4" 150# Flange Suction and Discharge • John Deere 4024T Diesel Engine • GP60 highway trailer, 60 gal fuel tank
C	6	4" x 10' Black Water Suction Hose with Godwin QD Fittings
D	2	4" Godwin QD Step Bow
E	4	4" 90 Degree Godwin QD Bend
F	2	4" Check Valve with 150# Flange <ul style="list-style-type: none"> • with godwin QD
G	4	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
H	1	4" Godwin QD Tee Female x Female x Male
I	1	6" 150# Flange x 4" 150# Flange Concentric Adapter <ul style="list-style-type: none"> • With NBG
J	1	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand
		<i>ESTIMATED DAILY RENTAL TOTAL</i>
		<i>ESTIMATED DELIVERY CHARGE</i>
		<i>ESTIMATED PICKUP CHARGE</i>
		<i>REQUIRED EXTRAS</i>
		\$ 667.75
		\$ 500.00
		\$ 500.00
		\$ 0.00

SITE NO.: 55-01

LOCATION:

**La Quinta ½ mile east of
Washington Street on Avenue 50**



MANUFACTURER: ESSCO

PUMP DATA: Pumps 1 & 2 submersible

PUMP MODEL NO.: 8 x 8 x 17.5 x 3.38

GPM: 2000

TDH: 185 ft.

APPROX. HOLDING TIME: 1-6 hours

NEAREST OVERFLOW POINT: MH @ SWC

PLAT SHEET: 5-7-31-4

MANHOLE NO.: MH #47

MOTOR DATA: Reliance Electric

H.P.: 135

PHASE: 3

HERTZ: 60

VOLTS: 480

STANDBY GENERATOR: YES
NO

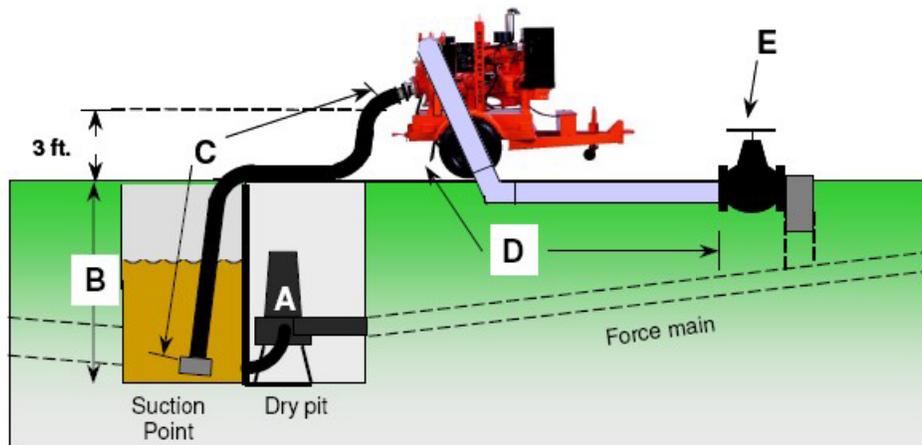
EMERGENCY BY-PASS : YES
NO

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	55-01
Pump Station Address:	Washington St La Quinta, CA
Contact Name(s):	
Phone #:	760-398-2651
Cross Street Ave	50

Typical Lift Station Design



A. What is the existing lift station rated for? 2,500 GPM @ 30 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 18 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 200 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 10" Flange
Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
Godwin Pumps of America, Inc
11171 Harrel St.

Carmen Cordova
Office (951) 681-3636
Cell (562) 572-4738

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD150M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 6" 150# Flange Suction and Discharge • John Deere 4045D diesel engine • Skid-mounted, 125 gal fuel tank • 10" QD Suction 8" 150# Flanged discharge
B	1	Godwin Dri-Prime CD150M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Lag Unit • Sound Attenuated Enclosure • 6" 150# Flange Suction and Discharge • John Deere 4045D diesel engine • Skid-mounted, 125 gal fuel tank • 10" QD Suction 8" 150# Flanged discharge
C	1	Godwin Dri-Prime CD150M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Stand-By Unit • Sound Attenuated Enclosure • 6" 150# Flange Suction and Discharge • John Deere 4045D diesel engine • Skid-mounted, 125 gal fuel tank • 10" QD Suction 8" 150# Flanged discharge
D	1	Godwin GHPU10SG Diesel Power Pack <ul style="list-style-type: none"> • Primary Unit • Yanmar 3TNV88B-T3 diesel engine • Critically Silent Skid Base 75 Gal
E	1	Godwin GHPU10 Diesel Power Pack <ul style="list-style-type: none"> • Stand-By Unit • Yanmar 3TNV88 diesel engine • GP30 highway trailer, 30 gal fuel tank

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
F	2	Godwin Heidra HS100 Hydraulic Pumpend <ul style="list-style-type: none"> • 4" 150# FL discharge • Anti-Cavitation kit, Biodegradable oil
G	4	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand
H	6	10" x 10' Black Water Suction Hose with Godwin QD Fittings
I	3	10" FQD x 6" MQD on suction of CD150M pumps
J	3	8" 150# Flange x 6" 150# Flange Concentric Adapter <ul style="list-style-type: none"> • On discharge of CD150M pumps
K	3	12" x 12" x 8" 150# Flanged Tee <ul style="list-style-type: none"> • Manifold with 1 each 12" Blind flange on 12" end of Tee
L	3	8" Check Valve with 150# Flange
M	6	8" X 20' Composite Hose with 150# Flange Fittings
N	200'	12" HDPE Pipe SDR 17 (Per Foot)
O	1	12" HDPE Saddle with 4" Female NPT <ul style="list-style-type: none"> • With Ball Valve and flush adaptor
P	12	12" HDPE 150#FL Back Up Ring
Q	12	12" HDPE SDR 17 150# Flange Adapter

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
R	6	12" 90 Degree Bend with 150# Flange
S	2	12" 45 Degree HDPE SDR 17 Bend
T	4	3/4" x 50' Hydraulic Hose with Wingnut Couplers
U	2	1/2" x 50' Hydraulic Hose with Push Connect Fittings
V	7	4" x 20' Godwin QD Pipe
W	2	4" x 10' Godwin QD Pipe
X	2	4" x 3' Godwin QD Pipe
Y	1	4" Godwin QD Tee Female x Female x Male
Z	3	4" Godwin QD Pipe with Female NPT drain <ul style="list-style-type: none"> • With Ball Valve and flush adaptor
AA	1	4" FQD x 6" 150# Flange
AB	2	4" Check Valve with 150# Flange <ul style="list-style-type: none"> • With Godwin QD Fittings
AC	1	6" HDPE SDR 17 150# Flange Adapter
AD	2	6" HDPE 150#FL Back Up Ring
AE	260'	6" HDPE Pipe SDR 17 (Per Foot)
AF	1	6" HDPE Saddle

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
AG	1	2" Combination Air Valve ARI D-025-2 • With Ball valve and 4" MNPT
AH	2	6" 45 Degree HDPE SDR 17 Bend
AI	4	6" 90 Degree Bend with 150# Flange
AJ	3	10" 45 Degree Godwin QD Bend
AK	3	8" Gate Valve W/150#FL
AL	1	12" 150# Flange x 10" 150# Flange Concentric Adapter

<i>ESTIMATED DAILY RENTAL TOTAL</i>	\$ 2,957.60
<i>ESTIMATED DELIVERY CHARGE</i>	\$ 1,000.00
<i>ESTIMATED PICKUP CHARGE</i>	\$ 1,000.00
<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.:

55-11

LOCATION: Mecca

66-100 Hammond Road



MANUFACTURER: Vaughan Chopper

PUMP DATA: Pumps 1&2 submersible

MOTOR DATA: Reliance Electric

PUMP MODEL NO.: SE4P-460V-118

H.P.: 50

GPM: 1000

PHASE: 3

TDH: 100 ft.

HERTZ: 60

APPROX. HOLDING TIME: 2-4 hours

VOLTS: 460

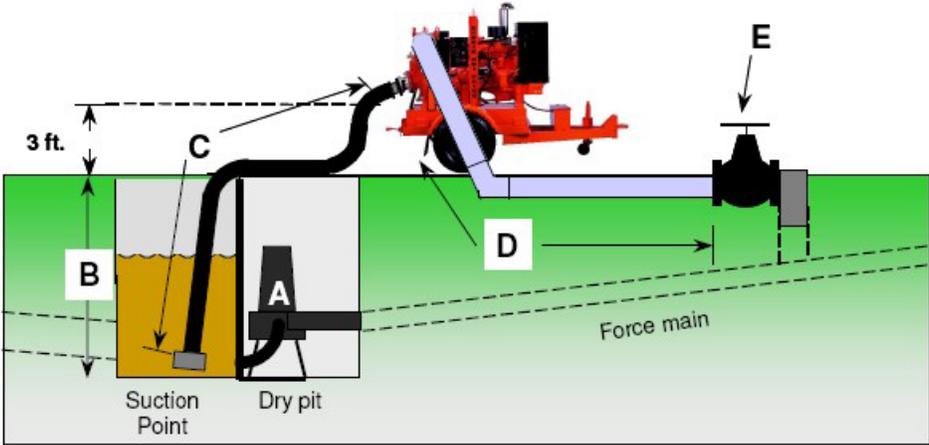
NEAREST OVERFLOW POINT: MH @ Ave.66 + Lincoln **STANDBY GENERATOR: YES**
NO

PLAT SHEET: 7-9-17-2 **EMERGENCY BY-PASS: YES**
MANHOLE NO.: 3+82.79 **NO**



Municipality:	Coachella Valley Water
Pump Station Name:	55-11
Pump Station Address:	66-100 Hammond rd Mecca, CA
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for? 1,000 GPM @ 43.5 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 18 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 100 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 10" Gate Valve 150# flange
Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St. Mira Loma Ca. 91752	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL QUOTATION		
ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD150M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 6" 150# Flange Suction and Discharge • John Deere 4045D diesel engine • Highway trailer, 80 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
B	1	Godwin Dri-Prime CD150M Diesel Pump <ul style="list-style-type: none"> • Primary Unit • 6" 150# Flange Suction and Discharge • John Deere 4045D Diesel Engine • GP60 highway trailer, 60 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
C	2	Auto Diesel Control Panel, 12 Volts
D	2	8" Female Godwin QD x 6" Male Godwin QD Adapter
E	2	8" Male Godwin QD x 6" Female Godwin QD Adapter
F	2	8" Godwin QD Step Bow
G	2	8" Check Valve with 150# Flange <ul style="list-style-type: none"> • With Godwin QD
H	1	8" Godwin QD Tee Female x Female x Male
I	1	8" FQD x 8" 150# Flange adaptor
J	1	10" 150# Flange x 8" 150# Flange Concentric Adapter <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand

Coachella Valley Water District

Rental Quotation # 117008036



K	6	8" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
L	2	8" 45 Degree Godwin QD Bend
M	6	8" 90 Degree Godwin QD Bend
N	6	8" x 10' Black Water Suction Hose with Godwin QD Fittings

<i>ESTIMATED DAILY RENTAL TOTAL</i>	\$ 1,448.00
<i>ESTIMATED DELIVERY CHARGE</i>	\$ 400.00
<i>ESTIMATED PICKUP CHARGE</i>	\$ 400.00
<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.: 55-12

LOCATION:

**La Quinta
Jefferson Street @ SWC-AKA
Home Depot L/S**



MANUFACTURER: Barnes Pumps

PUMP DATA: Pumps 1 & 2 submersible

PUMP MODEL NO.: 8SE-HA

GPM: 2500

TDH: 80 ft.

APPROX. HOLDING TIME: 1-6 hours

NEAREST OVERFLOW POINT: MH in SWC

PLAT SHEET: 5-7-29-1

MANHOLE NO.: MH #22

MOTOR DATA: Reliance

H.P.: 75

PHASE: 3

HERTZ: 60

VOLTS: 460

STANDBY GENERATOR: YES
NO

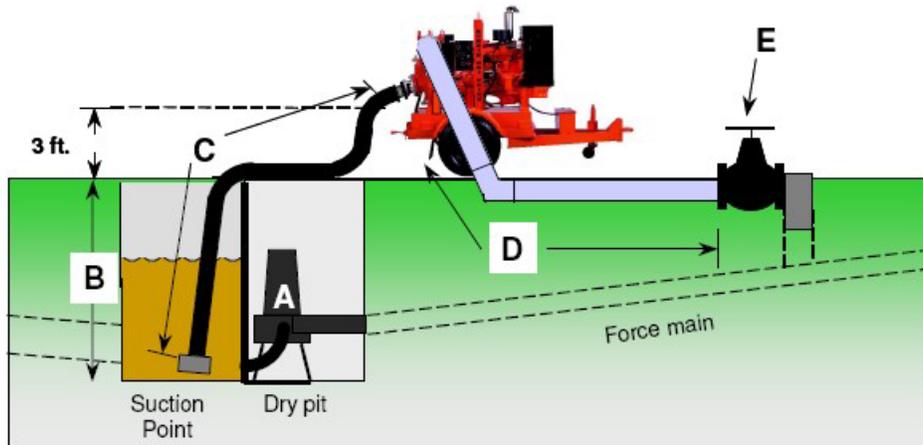
EMERGENCY BY-PASS: YES
NO

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley water
Pump Station Name:	55-12
Pump Station Address:	Jefferson Street La Quinta, CA
Contact Name(s):	
Phone #:	760-398-2651 Next to Home Depot

Typical Lift Station Design



A. What is the existing lift station rated for? 2500 GPM @ 35 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 26 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? N/A Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 100/50 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 8" 150# Flange

Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:	Carmen Cordova
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
G	1	Godwin GHPU30 Diesel Power Pack <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • John Deere 4045D diesel engine • Skid-mounted, 105 gal fuel tank
H	1	Godwin GHPU30 Diesel Power Pack <ul style="list-style-type: none"> • Stand-By Unit • Sound Attenuated Enclosure • John Deere 4045D diesel engine • Skid-mounted, 105 gal fuel tank
I	1	Godwin Heidra 150MR Hydraulic Pumpend <ul style="list-style-type: none"> • 6" FNPT discharge • Anti-Cavitation kit, Biodegradable oil • 8" MQD on discharge
J	1	Godwin Heidra 150MR Hydraulic Pumpend <ul style="list-style-type: none"> • 6" FNPT discharge • Anti-Cavitation kit, Biodegradable oil • 8" MQD on discharge
K	2	8" x 20' Black Water Suction Hose with Godwin QD Fittings
L	3	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand
M	8	3/4" x 50' Hydraulic Hose with Wingnut Couplers
N	8	1/2" x 50' Hydraulic Hose with Push Connect Fittings
O	8	1" x 50' Hydraulic Hose with Wingnut Couplers

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
P	4	4" x 20' Godwin QD Pipe
Q	4	4" x 10' Godwin QD Pipe
R	4	4" x 6' Godwin QD Pipe
S	4	4" x 3' Godwin QD Pipe
T	2	4" Godwin QD Pipe with Female NPT drain <ul style="list-style-type: none"> • With Ball valve and flush adaptor
U	4	8" x 20' Godwin QD Pipe
V	4	8" x 10' Godwin QD Pipe
W	4	8" x 6' Godwin QD Pipe
X	4	8" x 3' Godwin QD Pipe
Y	4	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
Z	12	8" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
AA	2	8" Godwin QD Step Bow
AB	4	8" Godwin QD Pipe with Female NPT drain <ul style="list-style-type: none"> • with ball valve and flush adaptor
AC	2	4" Godwin QD Tee Female x Female x Male
AD	2	8" Godwin QD Tee Female x Female x Male

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
AE	2	4" Check Valve with 150# Flange • With Godwin QD
AF	2	8" Check Valve with 150# Flange • With Godwin QD
AG	1	8" x 8" x 4" Steel Tee w/150#FL • with 1 each 4" FQD and 1 each 8" FQD fittings
AH	8	4" 90 Degree Godwin QD Bend
AI	8	8" 90 Degree Godwin QD Bend

<i>ESTIMATED DAILY RENTAL TOTAL</i>	\$ 4,052.00
<i>ESTIMATED DELIVERY CHARGE</i>	\$ 1,000.00
<i>ESTIMATED PICKUP CHARGE</i>	\$ 1,000.00
<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.:

55-19

**LOCATION: Coachella
Ave. 56 and Calhoun**



MANUFACTURER: GORMAN-RUPP

PUMP DATA: Pumps 1 & 2

PUMP MODEL NO.: T4A3S-B /WWS

GPM: 200

TDH: 36'

APPROX. HOLDING TIME: 2-6 hours

NEAREST OVERFLOW POINT: Undetermined

PLAT SHEET: 6-7-13-3

MANHOLE NO.: Unknown

MOTOR DATA: WEG

H.P.: 20

PHASE: 3

HERTZ: 60

VOLTS:

**STANDBY GENERATOR: YES
NO**

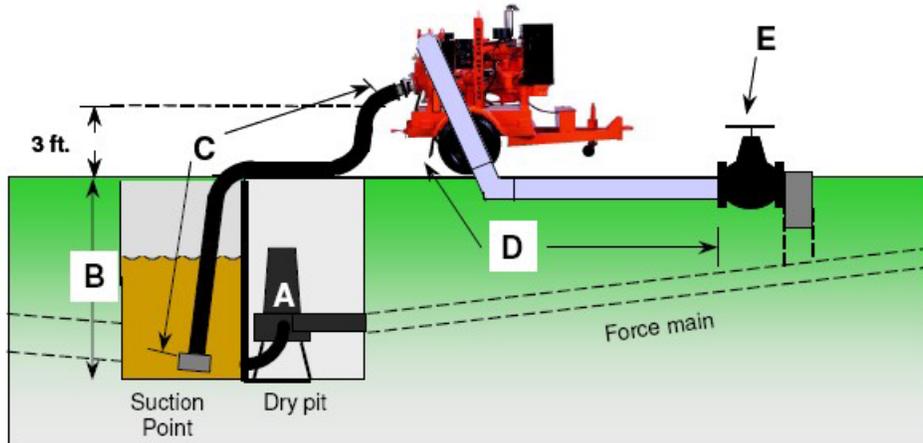
**EMERGENCY BY-PASS: YES
NO**

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	55-19
Pump Station Address:	Ave 56 and Calhoun Coachella, CA
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for? 200 GPM @ 15.5 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 11 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 12 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required?
What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? Manhole on Airport blvd and Calhoun ST
Raised face flange or threaded fitting? Size? 100 Feet

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
Godwin Pumps of America, Inc
11171 Harrel St.

Carmen Cordova
Office (951) 681-3636
Cell (562) 572-4738

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD103M Critically Silenced Diesel Pump • Primary Unit • Sound Attenuated Enclosure • 4" 150# Flange Suction and Discharge • John Deere 4024T diesel engine • Skid-mounted, 80 gal fuel tank
B	1	Godwin Dri-Prime CD103M Diesel Pump • Stand-By Unit • 4" 150# Flange Suction and Discharge • John Deere 4024T Diesel Engine • GP60 highway trailer, 60 gal fuel tank
C	4	4" x 10' Black Water Suction Hose with Godwin QD Fittings
D	2	4" Godwin QD Step Bow
E	4	4" 90 Degree Godwin QD Bend
F	2	4" Check Valve with 150# Flange • with godwin QD
G	6	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
H	1	Auto Diesel Control Panel, 12 Volts • with two 65' Floats • with 25' harness with round plug• mounted on stand

<i>ESTIMATED DAILY RENTAL TOTAL</i>	\$ 672.75
<i>ESTIMATED DELIVERY CHARGE</i>	\$ 500.00
<i>ESTIMATED PICKUP CHARGE</i>	\$ 500.00
<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.:

55-21

LOCATION: Thermal

South of Ave. 63 and Polk



MANUFACTURER: FAIRBANKS MORSE

**PUMP DATA: Pumps 1 & 2 Submersibles
Morse**

PUMP MODEL NO.: D5435MV

GPM: P#1 - 300 / P#2 - 600

TDH: P#1 - 67' / P#2 - 81'

APPROX. HOLDING TIME: 4-8 hours

NEAREST OVERFLOW POINT: Undetermined

PLAT SHEET: 7-8-9-1

MANHOLE NO.: Unknown

MOTOR DATA: Fairbanks

H.P.: P#1-15 / P#2 - 25

PHASE: 3

HERTZ: 60

VOLTS: 460

**STANDBY GENERATOR: YES
NO**

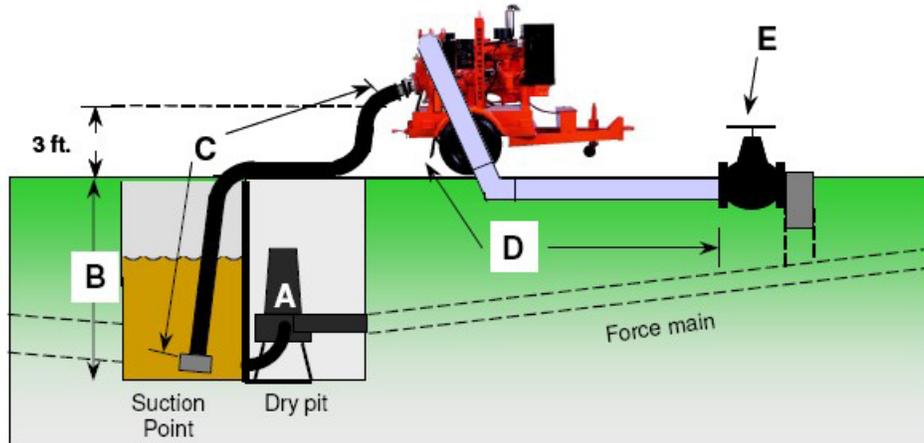
**EMERGENCY BY-PASS: YES
NO**

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	55-21
Pump Station Address:	Ave 63 and Polk Thermal, CA
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for? 970 GPM @ 35 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 23 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? N/A Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 80 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 8" Flange
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St. Mira Loma Ca. 91752	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin GHPU30SG Slurry Gate Power Pack <ul style="list-style-type: none"> • Primary Unit • John Deere 4045D diesel engine • Skid-mounted, 105 gal fuel tank • Critically Silenced
B	1	Godwin GHPU30 Diesel Power Pack <ul style="list-style-type: none"> • Stand-By Unit • John Deere 4045D diesel engine • Skid-mounted, 60 gal fuel tank
C	2	Godwin Heidra 150MR Hydraulic Pumpend <ul style="list-style-type: none"> • 6" FNPT discharge • Anti-Cavitation kit, Biodegradable oil
D	2	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand
E	4	6" x 20' Godwin QD Pipe
F	2	6" x 10' Godwin QD Pipe
G	2	6" x 6' Godwin QD Pipe
H	2	6" x 3' Godwin QD Pipe
I	2	6" Godwin QD Pipe with Female NPT Drain <ul style="list-style-type: none"> • with ball valve and 4" FQD
J	2	2" Combination Air Valve ARI D-025-2

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
K	2	6" Check Valve with 150# Flange • with 6" Godwin QD
L	8	6" 90 Degree Godwin QD Bend
M	2	6" 45 Degree Godwin QD Bend
N	6	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
O	1	6" Godwin QD Tee Female x Female x Male
P	1	8" 150# Flange x 6" 150# Flange Concentric Adapter
Q	1	6" FQD x 6" 150# Flange adaptor
R	6	1" x 50' Hydraulic Hose with Wingnut Couplers
S	3	1/2" x 50' Hydraulic Hose with Push Connect Fittings

<i>ESTIMATED DAILY RENTAL TOTAL</i>	\$ 1,340.00
<i>ESTIMATED DELIVERY CHARGE</i>	\$ 650.00
<i>ESTIMATED PICKUP CHARGE</i>	\$ 650.00
<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.:

55-24

**LOCATION: Indio
Polo Estates, Jackson St.**



MANUFACTURER: FAIRBANKS MORSE

PUMP DATA: Pumps 1 & 2 Submersibles

PUMP MODEL NO.: 4" D5435MV

GPM: 400

TDH: 171'

APPROX. HOLDING TIME: 4-8 hours

NEAREST OVERFLOW POINT: On site drain

PLAT SHEET: 6-7-2-4

MANHOLE NO.: N/A

MOTOR DATA: Fairbanks Morse

H.P.: 60

PHASE: 3

HERTZ: 60

VOLTS: 460

STANDBY GENERATOR: YES
NO

EMERGENCY BY-PASS: YES
NO

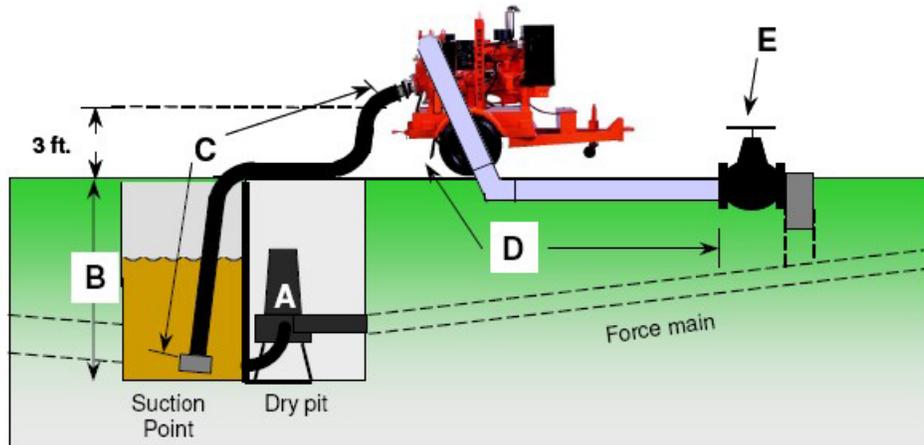


Lift Station By-Pass Contingency Plan

Coachella Valley Water

Municipality:	55-24
Pump Station Name:	Polo Estates
Pump Station Address:	
Contact Name:	Jerry Rodriguez
Contact Phone #:	951-388-2651
Phone #:	
Address:	Franklin Street

Typical Lift Station Design



A. What is the existing lift station rated for? 400 GPM @ 74.03 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 18 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 50 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 8" 150# Flange
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St. Mira Loma Ca. 91752	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime HL4M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 4" 150# Flange Suction and Discharge • John Deere 4045T Diesel Engine • Includes Godwin PrimeGuard Manual • Skid-mounted, 150 gal fuel tank • 6" Suction and discharge 150# Flanged
B	1	Godwin Dri-Prime HL4M Diesel Pump <ul style="list-style-type: none"> • Stand-By Unit • 4" 150# Flange Suction and Discharge • John Deere 4045T Diesel Engine • Includes Godwin PrimeGuard Manual • Skid-mounted, 100 gal fuel tank • 6" Suction and discharge 150# Flanged
C	2	Godwin PrimeGuard Float Set
D	6	6" x 10' Black Water Suction Hose with Godwin QD Fittings
E	2	6" Check Valve with 150# Flange
F	2	6" x 6" x 4" Tee W/150#FL <ul style="list-style-type: none"> • With ball valve and 2 1/2" Flush adaptor on each
G	1	6" 150# Flanged Tee
H	4	6" X 20' Composite Hose with 150# Flange Fittings
I	4	6" X 10' Composite Hose with 150# Flange Fittings
J	2	6" 90 Degree Godwin QD Bend

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
K	4	6" 90 Degree Bend with 150# Flange
L	1	8" 150# Flange x 6" 150# Flange Concentric Adapter

<i>ESTIMATED DAILY RENTAL TOTAL</i>	\$ 1,619.00
<i>ESTIMATED DELIVERY CHARGE</i>	\$ 500.00
<i>ESTIMATED PICKUP CHARGE</i>	\$ 500.00
<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.:

55-26

**LOCATION: Thermal
Pierce St. S. of Ave. 62**



MANUFACTURER: Homa

PUMP DATA: Pumps 1 & 2 Submersibles

PUMP MODEL NO.: AMX334-250/13P/C FM

GPM: 150

TDH: 45

APPROX. HOLDING TIME: Undetermined

NEAREST OVERFLOW POINT: Undetermined

PLAT SHEET:

MANHOLE NO.: Unknown

MOTOR DATA: Homa

H.P.: 13.0

PHASE: .3

HERTZ: 60

VOLTS: 208

**STANDBY GENERATOR: YES
NO**

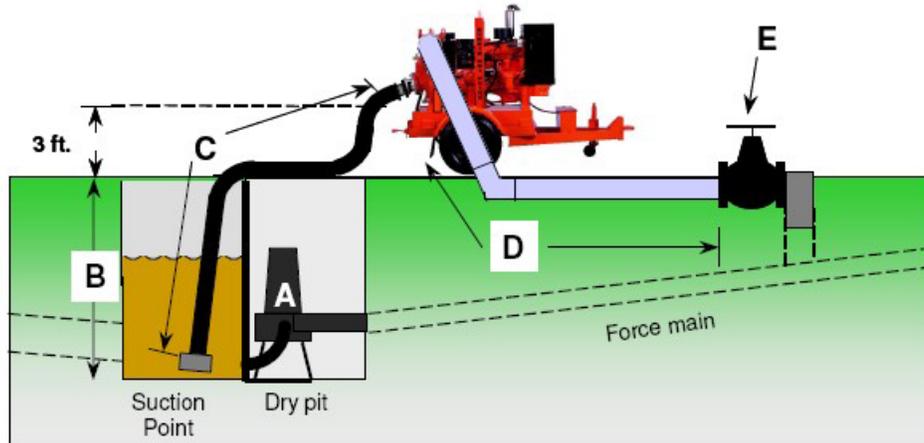
**EMERGENCY BY-PASS: YES
NO**

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	55-26
Pump Station Address:	Pierce St and Ave 62 Thermal, CA
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for? 400 GPM @ 19.6 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 20 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? N/A Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 60 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 6" Flange

Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
Godwin Pumps of America, Inc

Carmen Cordova
Office (951) 681-3636

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION	DAILY UNIT	DAILY TOTAL
A	1	Godwin GHPU10SG Diesel Power Pack <ul style="list-style-type: none"> • Primary Unit • Yanmar 3TNV88B-T3 diesel engine • Critically Silent Skid Base 75 Gal 	\$ 226.00	\$ 226.00
B	1	Godwin GHPU10 Diesel Power Pack <ul style="list-style-type: none"> • Primary Unit • John Deere 3015D diesel engine • GP60 highway trailer, 60 gal fuel tank 	128.00	128.00
C	2	Godwin Heidra 100TD Hydraulic Pumpend <ul style="list-style-type: none"> • 4" FNPT discharge • Anti-Cavitation kit, Biodegradable oil 	66.00	132.00
D	8	3/4" x 50' Hydraulic Hose with Wingnut Couplers	12.00	96.00
E	4	1/2" x 50' Hydraulic Hose with Push Connect Fittings	10.00	40.00
F	2	6" x 20' Godwin QD Pipe	10.00	20.00
G	4	6" x 10' Godwin QD Pipe	7.00	28.00
H	4	6" x 3' Godwin QD Pipe	7.00	28.00
I	2	6" Godwin QD Pipe with Female NPT Drain	7.00	14.00
J	2	6" Check Valve with 150# Flange	16.00	32.00
K	4	6" 90 Degree Godwin QD Bend	7.00	28.00
L	1	6" Godwin QD Tee Female x Female x Male	7.00	7.00

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION	DAILY UNIT	DAILY TOTAL
M	2	2" Combination Air Valve ARI D-025-2	24.00	48.00
N	2	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings	31.00	62.00
O	1	Godwin Miscellaneous QD Adapter	0.00	0.00
P	2	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand 	60.00	120.00

	\$ 1,009.00
<i>ESTIMATED RENTAL</i>	\$ 500.00
<i>TOTAL ESTIMATED</i>	\$ 500.00
<i>DELIVERY CHARGE</i>	\$ 0.00
<i>ESTIMATED PICKUP</i>	
<i>CHARGE REQUIRED EXT</i>	

SITE NO.:

55-27

LOCATION: San Antonio Del Desierto

91080 66th Avenue

Mecca, CA 92254



MANUFACTURER: Vaughn

PUMP DATA: Pumps 1 & 2

PUMP MODEL NO.: S3P4

GPM: 300

TDH: 70

APPROX. HOLDING TIME: 14 hours

NEAREST OVERFLOW POINT: 68th & Lincoln Avenue

PLAT SHEET: 7-9-17-3

MANHOLE NO.: On-site

MOTOR DATA: Baldor

H.P.: 15

PHASE: 3

HERTZ: 60

VOLTS: 208

STANDBY GENERATOR: YES
NO

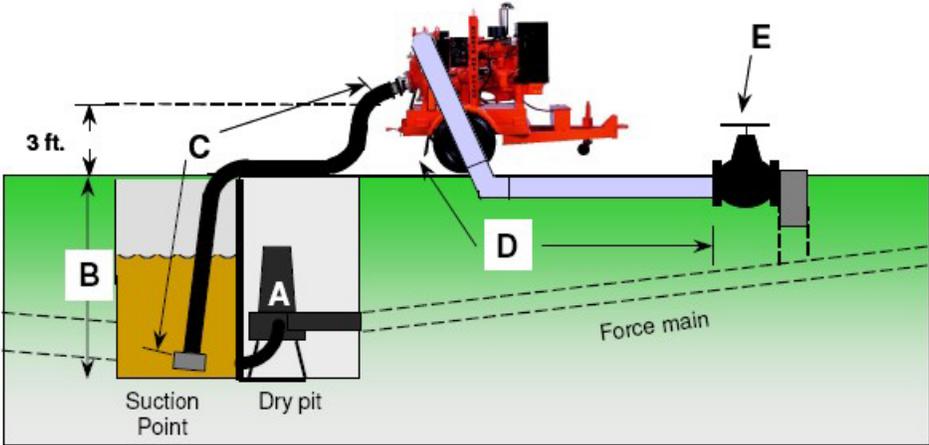
EMERGENCY BY-PASS: YES

**Lift Station By-Pass
Contingency Plan**



Municipality:	Coachella Valley Water D
Pump Station Name:	55-27
Pump Station Address:	Lincoln St/ Ave 68
	ThA
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for? 400 GPM @ 19.6 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 20 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? N/A Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 60 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 6" Flange
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St.	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION	DAILY UNIT	DAILY TOTAL
A	1	Godwin GHPU10SG Diesel Power Pack <ul style="list-style-type: none"> • Primary Unit • Yanmar 3TNV88B-T3 diesel engine • Critically Silent Skid Base 75 Gal 	\$ 226.00	\$ 226.00
B	1	Godwin GHPU10 Diesel Power Pack <ul style="list-style-type: none"> • Primary Unit • John Deere 3015D diesel engine • GP60 highway trailer, 60 gal fuel tank 	128.00	128.00
C	2	Godwin Heidra 100TD Hydraulic Pumpend <ul style="list-style-type: none"> • 4" FNPT discharge • Anti-Cavitation kit, Biodegradable oil 	66.00	132.00
D	8	3/4" x 50' Hydraulic Hose with Wingnut Couplers	12.00	96.00
E	4	1/2" x 50' Hydraulic Hose with Push Connect Fittings	10.00	40.00
F	2	6" x 20' Godwin QD Pipe	10.00	20.00
G	4	6" x 10' Godwin QD Pipe	7.00	28.00
H	4	6" x 3' Godwin QD Pipe	7.00	28.00
I	2	6" Godwin QD Pipe with Female NPT Drain	7.00	14.00
J	2	6" Check Valve with 150# Flange	16.00	32.00
K	4	6" 90 Degree Godwin QD Bend	7.00	28.00
L	1	6" Godwin QD Tee Female x Female x Male	7.00	7.00

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION	DAILY UNIT	DAILY TOTAL
M	2	2" Combination Air Valve ARI D-025-2	24.00	48.00
N	2	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings	31.00	62.00
O	1	Godwin Miscellaneous QD Adapter	0.00	0.00
P	2	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand 	60.00	120.00
<i>ESTIMATED RENTAL TOTAL</i>				\$ 1,009.00
<i>ESTIMATED DELIVERY CHARGE</i>				\$ 500.00
<i>ESTIMATED PICKUP CHARGE</i>				\$ 500.00
<i>REQUIRED EXTRAS</i>				\$ 0.00

SITE NO.:

80-03

LOCATION:

**Palm Desert
Cook Street and
Whitewater River
Stormwater
Channel**



MANUFACTURER: FAIRBANKS MORSE

PUMP DATA: Pumps 2 & 3

PUMP MODEL NO.: Fig. B5414

GPM: 3375

TDH: 55 ft.

APPROX. HOLDING TIME: 5-15 Minutes

NEAREST OVERFLOW POINT: MH # 44

PLAT SHEET: 5-6-15-3

MANHOLE NO.: #44

SITE NO.:

80-03

MOTOR DATA: General Electric

H.P.: 75

PHASE: 3

HERTZ: 60

VOLTS: 460

STANDBY GENERATOR: YES
NO

EMERGENCY BY-PASS : YES
NO

LOCATION:

**Palm Desert
Cook Street and**

**Whitewater River
Stormwater
Channel**



MANUFACTURER: FAIRBANKS MORSE

PUMP DATA: Pump 1

PUMP MODEL NO.: 14" B5711C

GPM: 5100/4000

TDH: 29/34 ft.

APPROX. HOLDING TIME: 5-15 minutes

NEAREST OVERFLOW POINT: MH #44

PLAT SHEET: 5-6-15-3

MANHOLE NO.: #44

SITE NO.: 80-03

MOTOR DATA: General Electric

H.P.: 60

PHASE: 3

HERTZ: 60

VOLTS: 460

STANDBY GENERATOR: YES
NO

EMERGENCY BY-PASS : YES
NO

**LOCATION: Palm Desert
Cook Street and
Whitewater River
Storm water
Channel**



MANUFACTURER: CORNELL PUMP

PUMP DATA: Pump 4 Hydraulic Submersible

PUMP MODEL NO.: 12NHTM

GPM: 1000

TDH: 80'

APPROX. HOLDING TIME: 5-15 minutes

NEAREST OVERFLOW POINT: MH #44

**PLAT SHEET: 5-6-15-3
MANHOLE NO.: MH#44**

**MOTOR DATA: Vickers
ENGINE DATA: John Deer**

H.P.: Variable

PHASE: N/A

HERTZ: N/A

VOLTS: N/A

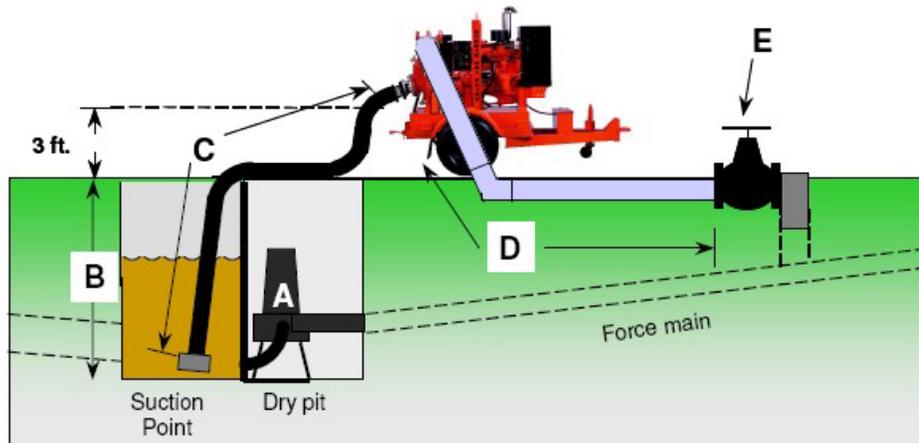
**STANDBY GENERATOR: YES
NO**

EMERGENCY BY-PASS : YES



Municipality:	Coachella Valley Water
Pump Station Name:	80-03
Pump Station Address:	Cook st and Whitewater Palm Desert, CA
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for? 4,100 GPM @ 0 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 18 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 40 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 60 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 3 each 8" 150# Flange fittings

Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St. Mira Loma Ca. 91752	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	2	Godwin Dri-Prime CD225M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 8" 150# Flange Suction and Discharge • John Deere 4045T Diesel Engine • Skid-mounted, 150 gal fuel tank • 10" QD Suction 8" MQD discharge
B	1	Godwin Dri-Prime CD225M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Stand-By Unit • Sound Attenuated Enclosure • 8" 150# Flange Suction and Discharge • John Deere 4045T Diesel Engine • Skid-mounted, 150 gal fuel tank • 10" QD Suction 8" MQD discharge
C	12	10" x 10' Black Water Suction Hose with Godwin QD Fittings
D	3	8" Godwin QD Step Bow
E	6	8" 90 Degree Godwin QD Bend
F	3	8" Check Valve with 150# Flange <ul style="list-style-type: none"> • With Godwin qd fittings
G	3	8" Godwin QD Pipe with Female NPT drain <ul style="list-style-type: none"> • with ball valve and flush adaptor
H	12	8" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
I	3	10" 90 Degree Godwin QD Bend
J	3	8" FQD x 8" 150# Flange adaptor with NBG



RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
K	2	Godwin PrimeGuard Float Set

<i>ESTIMATED DAILY RENTAL TOTAL</i>	\$ 3,007.00
<i>ESTIMATED DELIVERY CHARGE</i>	\$ 650.00
<i>ESTIMATED PICKUP CHARGE</i>	\$ 650.00
<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.: 80-04

**LOCATION: Indian Wells
Highway 111 and
Mountain Cove Drive**



MANUFACTURER: FAIRBANKS MORSE

PUMP DATA: Pumps 1 & 2 Submersible

PUMP MODEL NO.: 4D5434MV Size 4"

GPM: 1000

TDH: 225 ft.

APPROX. HOLDING TIME: 1-4 hours

NEAREST OVERFLOW POINT: MH #68

PLAT SHEET: 5-7-19-3

MANHOLE NO.: MH #68

MOTOR DATA: Fairbanks Morse

H.P.: 100

PHASE: 3

HERTZ: 60

VOLTS: 460

**STANDBY GENERATOR: YES
NO**

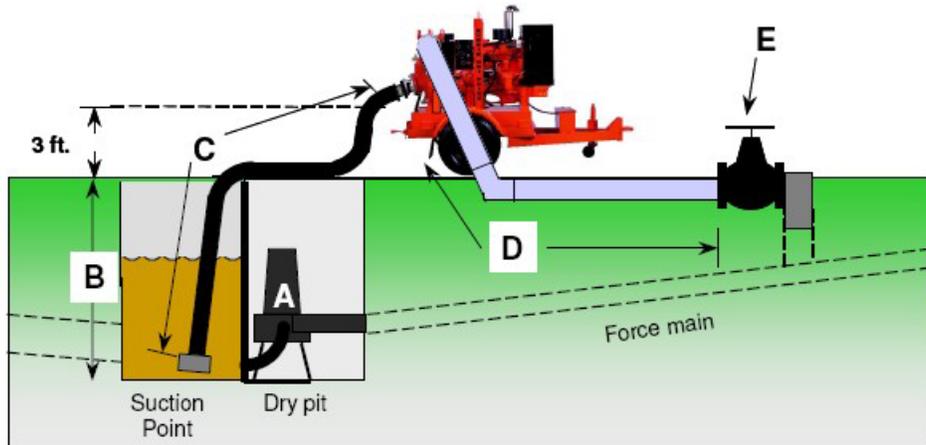
**EMERGENCY BY-PASS: YES
NO**



**Lift Station By-Pass
Contingency Plan**

Municipality: Coachella Valley Water
Pump Station Name: 80-04
Pump Station Address: Highway 111 Indian Wells, CA
Contact Name(s): Jerry Rodriguez
Phone #: 760-398-2651
Cross Street Mountain Cove Drive

Typical Lift Station Design



A. What is the existing lift station rated for? 1,000 GPM @ 97.40 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 18 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 130 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 10" 150# Flange

Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St.	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime HL4M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 4" 150# Flange Suction and Discharge • John Deere 4045T Diesel Engine • Includes Godwin PrimeGuard Manual • Skid-mounted, 150 gal fuel tank • 6" Suction and discharge 150# Flanged
B	1	Godwin Dri-Prime HL4M Diesel Pump <ul style="list-style-type: none"> • Stand-By Unit • 4" 150# Flange Suction and Discharge • John Deere 4045T Diesel Engine • Includes Godwin PrimeGuard Manual • Skid-mounted, 100 gal fuel tank • 6" Suction and discharge 150# Flanged
C	2	Godwin PrimeGuard Float Set
D	6	6" x 10' Black Water Suction Hose with Godwin QD Fittings
E	2	6" Check Valve with 150# Flange
F	2	6" x 6" x 4" Tee W/150#FL <ul style="list-style-type: none"> • With ball valve and 2 1/2" Flush adaptor on each
G	1	6" 150# Flanged Tee
H	8	6" X 20' Composite Hose with 150# Flange Fittings
I	4	6" X 10' Composite Hose with 150# Flange Fittings
J	2	6" 90 Degree Godwin QD Bend

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
K	4	6" 90 Degree Bend with 150# Flange
	1	10" 150# Flange x 6" 150# Flange Concentric Adapter

ESTIMATED DAILY RENTAL TOTAL

ESTIMATED DELIVERY CHARGE

ESTIMATED PICKUP CHARGE

REQUIRED EXTRAS

\$ 1,855.00

\$ 500.00

\$ 500.00

\$ 0.00

SITE NO.:

80-05

LOCATION:

**Indian Wells
Mountain Cove Drive and
Deep Canyon Wash**



MANUFACTURER: SMITH & LOVELESS

PUMP DATA: Pumps 1 & 2

MOTOR DATA: Ecodyne

PUMP MODEL NO.: 8 x 8-6B3

H.P.: 7.5

GPM: 550

PHASE: 3

TDH: 23 ft.

HERTZ: 60

APPROX. HOLDING TIME: 1-4 hours

VOLTS: 208

NEAREST OVERFLOW POINT: MH #3

STANDBY GENERATOR: YES
NO

PLAT SHEET: 5-7-30-2
MANHOLE NO.: MH#3

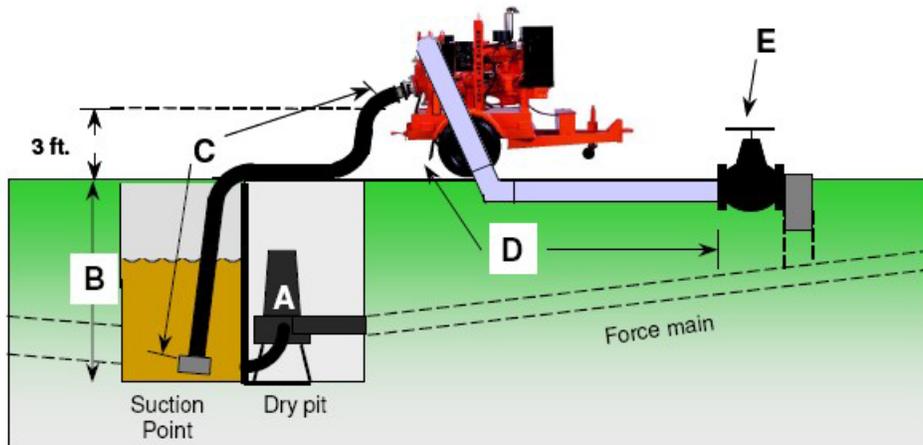
EMERGENCY BY-PASS : YES
NO

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	80-05 Mountain Cove Dr
Pump Station Address:	Cross Street: Deep Canyon Wash
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for? 550 GPM @ 9.96 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 15 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 100 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 6" 150 # Flange
Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:	Carmen Cordova
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**RENTAL
QUOTATION**

ITEM	QTY	DESCRIPTION
A	1 • Primary Unit	Godwin Dri-Prime CD150M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Sound Attenuated Enclosure • 6" 150# Flange Suction and Discharge • John Deere 4045D diesel engine • Highway trailer, 80 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
B	1 •	Godwin Dri-Prime CD150M Diesel Pump Primary Unit <ul style="list-style-type: none"> • 6" 150# Flange Suction and Discharge • John Deere 4045D Diesel Engine • GP60 highway trailer, 60 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
C	2	Auto Diesel Control Panel, 12 Volts with two 65' Floats <ul style="list-style-type: none"> • with 25' harness with round plug • mounted stand
D	1	6" FQD x 6" 150# Flange adaptor
E	6	6" x 10' Black Water Suction Hose with Godwin QD Fittings
F	2	6" Godwin QD Step Bow
G	2	6" Check Valve with 150# Flange with Godwin QD
H	1	6" Godwin QD Tee Female x Female x Male
I	6	6" 90 Degree Godwin QD Bend
J	6	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings

ESTIMATED DAILY RENTAL TOTAL	\$ 1,041.00
ESTIMATED DELIVERY CHARGE	\$ 500.00
ESTIMATED PICKUP CHARGE	\$ 500.00
REQUIRED EXTRAS	\$ 0.00

SITE NO.:

80-06

LOCATION:

**Rancho Mirage
Country Club Drive
northwest of storm channel**



MANUFACTURER: GORMAN-RUPP

PUMP DATA: Pumps 1 & 2

PUMP MODEL NO.: T6A3-B

GPM: 1100

TDH: 30 ft.

APPROX. HOLDING TIME: 1-4 hours

NEAREST OVERFLOW POINT: MH #56

PLAT SHEET: 5-5-2-4

MANHOLE NO.: MH#56

MOTOR DATA: Allis Chalmers

H.P.: 20

PHASE: 3

HERTZ: 60

VOLTS: 230/460

STANDBY GENERATOR: YES
NO

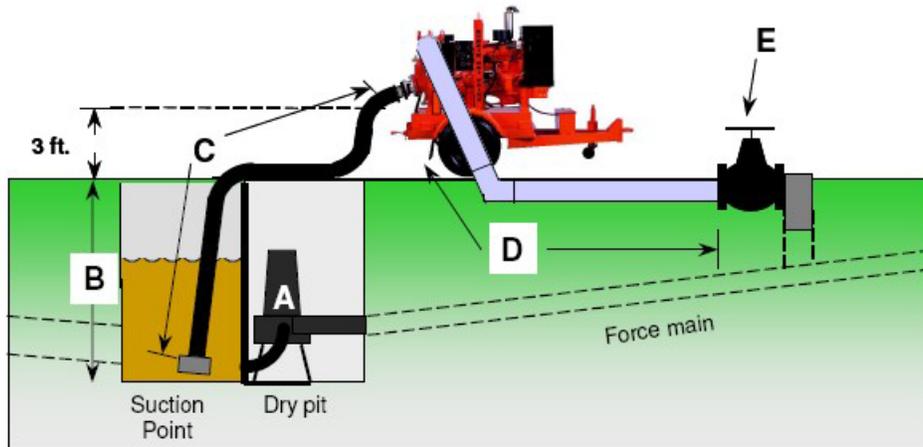
EMERGENCY BY-PASS: YES
NO



Lift Station By-Pass Contingency Plan

Municipality:	Coachella Valley Water District
Pump Station Name:	80-06
Pump Station Address:	Country Club Drive
	Rancho Mirage, CA
Contact Name(s):	
Phone #:	760-398-2651
	NW Of Storm Channel

Typical Lift Station Design



A. What is the existing lift station rated for? 1,100 GPM @ 12.99 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 18 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 100 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 6" 150# Flange
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc	Carmen Cordova Office (951) 681-3636
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD150M Critically Silenced Diesel Pump • Primary Unit <ul style="list-style-type: none"> • Sound Attenuated Enclosure • 6" 150# Flange Suction and Discharge • John Deere 4045D diesel engine • Highway trailer, 80 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
B	1	Godwin Dri-Prime CD150M Diesel Pump • Primary Unit <ul style="list-style-type: none"> • 6" 150# Flange Suction and Discharge • John Deere 4045D Diesel Engine • GP60 highway trailer, 60 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
C	2	Auto Diesel Control Panel, 12 Voltswith two 65' Floats • with 25' harness with round plug • mounted on stand
D	1	6" FQD x 6" 150# Flange adaptor
E	6	6" x 10' Black Water Suction Hose with Godwin QD Fittings
F	2	6" Godwin QD Step Bow
G	2	6" Check Valve with 150# Flange With Godwin QD
H	1	6" Godwin QD Tee Female x Female x Male
I	6	6" 90 Degree Godwin QD Bend
J	6	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
		ESTIMATED DAILY RENTAL TOTAL ESTIMATED DELIVERY CHARGE ESTIMATED PICKUP CHARGE REQUIRED EXTRAS
		\$ 1,041.00 \$ 500.00 \$ 500.00 \$ 0.00

SITE NO.:

80-07

LOCATION:

**Rancho Mirage
Highway 111 and
Paxton Road**



MANUFACTURER: WEMCO

PUMP DATA: Pumps 1 & 2 submersible

MOTOR DATA: Reliance

PUMP MODEL NO.: 4S3

H.P.: 5

GPM: 100

PHASE: 3

TDH: 28 ft.

HERTZ: 60

APPROX. HOLDING TIME: 4-8 hours

VOLTS: 240

NEAREST OVERFLOW POINT: MH #33

STANDBY GENERATOR: YES
NO

PLAT SHEET: 5-5-12-2
MANHOLE NO.: MH#33

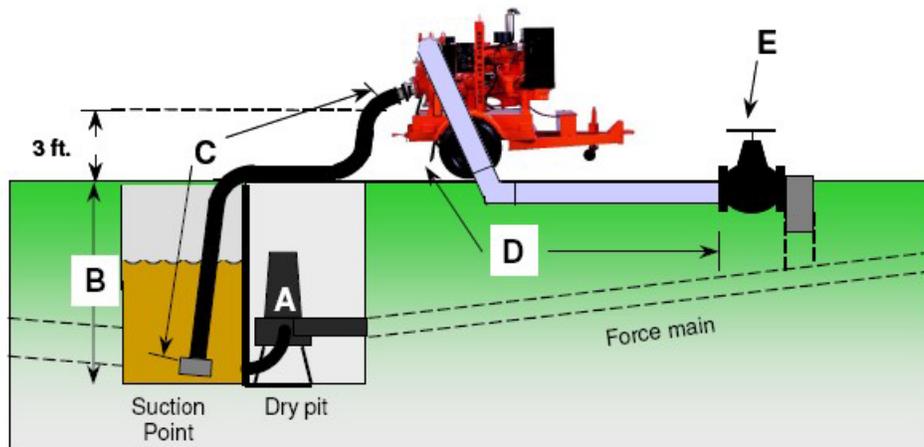
EMERGENCY BY-PASS: YES
NO

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	80-07
Pump Station Address:	Highway 111
	Rancho Mirage, CA
Contact Name(s):	
Phone #:	760-398-2651
	Cross Street Paxton Road

Typical Lift Station Design



A. What is the existing lift station rated for? 100 GPM @ 12.12 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 8 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 20 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 200 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 4" Flange Fitting
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc	Carmen Cordova Office (951) 681-3636
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**RENTAL
QUOTATION**

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD103M Critically Silenced Diesel Pump • Primary Unit <ul style="list-style-type: none"> • Sound Attenuated Enclosure • 4" 150# Flange Suction and Discharge • John Deere 4024T diesel engine • Skid-mounted, 80 gal fuel tank
B	1	Godwin Dri-Prime CD103M Diesel Pump • Stand-By Unit <ul style="list-style-type: none"> • 4" 150# Flange Suction and Discharge • John Deere 4024T Diesel Engine • GP60 highway trailer, 60 gal fuel tank
C	4	4" x 10' Black Water Suction Hose with Godwin QD Fittings
D	2	4" Godwin QD Step Bow
E	5	4" 90 Degree Godwin QD Bend
F	2	4" Check Valve with 150# Flange with godwin QD
G	6	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
H	2	Auto Diesel Control Panel, 12 Volts with two 65' Floats <ul style="list-style-type: none"> • with 25' harness with round plug mounted on stand
I	1	4" Godwin QD Tee Female x Female x Male
J	1	4" FQD adaptor x 4" 150# flange
		<i>ESTIMATED DAILY RENTAL TOTAL</i> <i>ESTIMATED DELIVERY CHARGE</i> <i>ESTIMATED PICKUP CHARGE</i> <i>REQUIRED EXTRAS</i>
		\$ 744.75 \$ 500.00 \$ 500.00 \$ 0.00

SITE NO.:

80-08

LOCATION:

**Palm Desert
Sandpiper Country Club**



MANUFACTURER: WEMCO TORQUE FLOW

PUMP DATA: Pump 1 Submersible

MOTOR DATA: Reliance

PUMP MODEL NO.: 352

H.P.: 1.5

GPM: 50

PHASE: 1

TDH: 9 ft.

HERTZ: 60

APPROX. HOLDING TIME: 8-16 hours

VOLTS: 115/230

NEAREST OVERFLOW POINT: WW Overflow

STANDBY GENERATOR: YES
NO

X
PLAT SHEET: 5-6-19-3
MANHOLE NO.: N/A

EMERGENCY BY-PASS: YES
NO

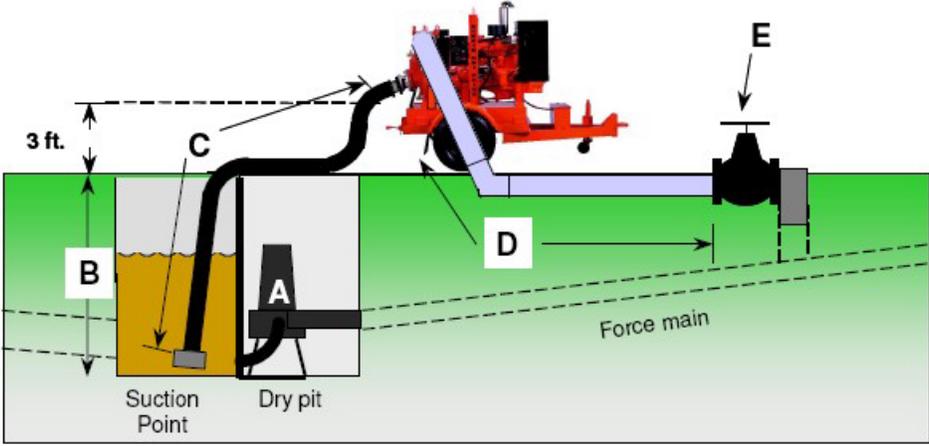
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**Lift Station By-Pass
Contingency Plan**



Municipality:	Coachella Valley Water
Pump Station Name:	80-08
Pump Station Address:	Sand Piper CC Palm Desert, CA
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for? 50 GPM @ 3.89 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 6 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? N/A Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 250 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? Down Stream Manhole
Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St.	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION	
A	1	Sub-Prime GST10 Submersible Trash <ul style="list-style-type: none"> • 2" Discharge • 1 HP Electric Motor • 115 Volt, 1 phase • with 4" MQD on discharge 	
B	1	Sub-Prime GST10 Submersible Trash <ul style="list-style-type: none"> • 2" Discharge • 1 HP Electric Motor • 115 Volt, 1 phase • with 4" MQD on discharge 	
C	2	N/O 30' 1150 Volt Piggyback Float Switch <ul style="list-style-type: none"> • Mechanical Swith wth Plug 	
D	6	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings	
E	2	4" Check Valve with 150# Flange <ul style="list-style-type: none"> • With Godwin Qd fittings 	
F	1	4" Godwin QD Tee Female x Female x Male	
G	2	4" Godwin QD Pipe with Female NPT drain <ul style="list-style-type: none"> • with ball valve and 2 1/2" Flush adaptor 	
ESTIMATED DAILY RENTAL TOTAL			\$ 256.00
ESTIMATED DELIVERY CHARGE			\$ 225.00
ESTIMATED PICKUP CHARGE			\$ 225.00
REQUIRED EXTRAS			\$ 0.00

SITE NO.:

80-09

LOCATION:

**Indian Wells
Vintage Country Club**



MANUFACTURER: ESSCO

PUMP DATA: Pump 1 Submersible

MOTOR DATA: Reliance

PUMP MODEL NO.: 4 x 12 TF

H.P.: 10

GPM: 300

PHASE: 3

TDH: 50 ft.

HERTZ: 60

APPROX. HOLDING TIME: 2-4 hours

VOLTS: 230/460

NEAREST OVERFLOW POINT: Overflow pipe in MH

**STANDBY GENERATOR: YES
NO**

PLAT SHEET: 5-6-27-2

MANHOLE NO.: MH#4

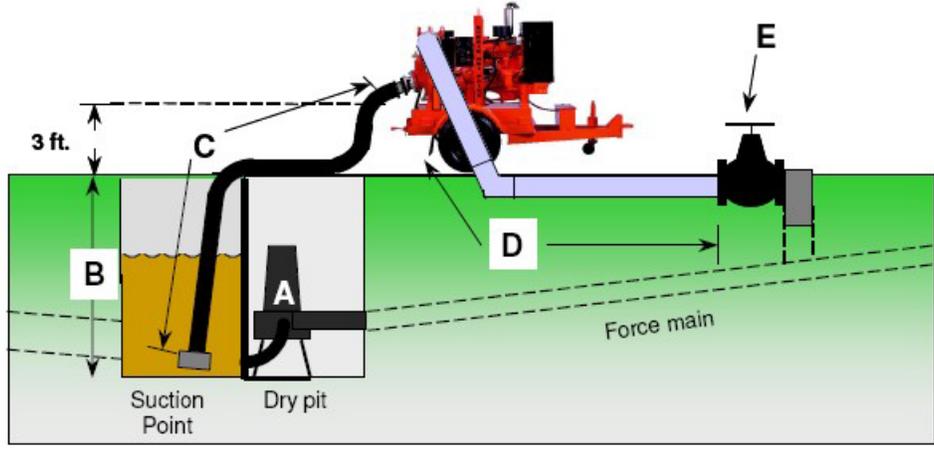
**EMERGENCY BY-PASS: YES
NO**

**Lift Station By-Pass
Contingency Plan**



Municipality:	Coachella Valley Water
Pump Station Name:	80-09
Pump Station Address:	Vintage Country Club Indian Wells, CA
Contact Name(s):	
Phone #:	760-398-2651
	Guard Shack must get escorted in

Typical Lift Station Design



A. What is the existing lift station rated for? 300 GPM @ 21.65 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 17 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 40 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 150 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 4"
 Raised face flange or threaded fitting? Size? 150# Flange in box

Emergency response available 24 hours per day seven days per week.

Emergency contact information:	Carmen Cordova
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD103M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 4" 150# Flange Suction and Discharge • John Deere 4024T diesel engine • Skid-mounted, 80 gal fuel tank
B	1	Godwin Dri-Prime CD103M Diesel Pump <ul style="list-style-type: none"> • Stand-By Unit • 4" 150# Flange Suction and Discharge • John Deere 4024T Diesel Engine • GP60 highway trailer, 60 gal fuel tank
C	8	4" x 10' Black Water Suction Hose with Godwin QD Fittings
D	2	4" Godwin QD Step Bow
E	5	4" 90 Degree Godwin QD Bend
F	2	4" Check Valve with 150# Flange with godwin QD
G	6	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
H	2	Auto Diesel Control Panel, 12 Volts with two 65' Floats <ul style="list-style-type: none"> • with 25' harness with round plug mounted on stand
I	1	4" Godwin QD Tee Female x Female x Male
J	1	4" 150 # Flange x 4" FQD adaptor

ESTIMATED DAILY RENTAL TOTAL
\$ 784.75
ESTIMATED DELIVERY CHARGE
\$ 500.00
ESTIMATED PICKUP CHARGE
\$ 500.00
REQUIRED EXTRAS
\$ 0.00

SITE NO.: 80-13

LOCATION: Indian Wells Grand Champions
at Highway 111



MANUFACTURER: GORMAN RUPP

PUMP DATA: 2 Stage Pumps 1 & 2

PUMP MODEL NO.: T6A3-B

GPM: 700

TDH: 75 ft.

APPROX. HOLDING TIME: 1-4 hours

NEAREST OVERFLOW POINT: Private loading dock

PLAT SHEET: 5-6-23-1

MANHOLE NO.: N/A

MOTOR DATA: Gorman Rupp

H.P.: 30

PHASE: 3

HERTZ: 60

VOLTS: 460

STANDBY GENERATOR: YES
NO

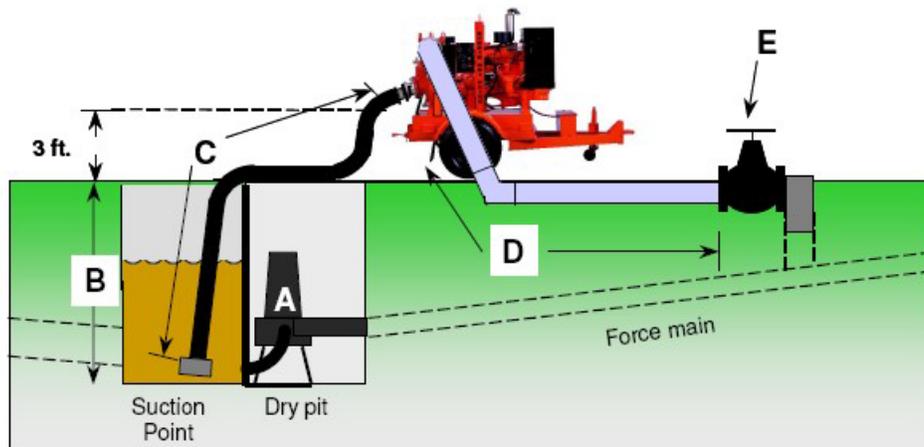
EMERGENCY BY-PASS: YES
NO

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	80-13
Pump Station Address:	Grand Champions Indian Wells, CA
Contact Name(s):	
Phone #:	760-398-2651
	Cross Street Hwy. 111

Typical Lift Station Design



A. What is the existing lift station rated for? 700 GPM @ 32.47 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 20 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? N/A Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 100 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 8" 150# Flange
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
 Godwin Pumps of America, Inc

Carmen Cordova
 Office (951) 681-3636

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin GHPU30SG Slurry Gate Power Pack <ul style="list-style-type: none"> • Primary Unit • John Deere 4045D diesel engine • Skid-mounted, 105 gal fuel tank • Critically Silenced
B	1	Godwin GHPU30 Diesel Power Pack <ul style="list-style-type: none"> • Stand-By Unit • John Deere 4045D diesel engine • Skid-mounted, 60 gal fuel tank
C	2	Godwin Heidra 150MR Hydraulic Pumpend <ul style="list-style-type: none"> • 6" FNPT discharge • Anti-Cavitation kit, Biodegradable oil
D	2	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand
E	4	6" x 20' Godwin QD Pipe
F	2	6" x 10' Godwin QD Pipe
G	2	6" x 6' Godwin QD Pipe
H	2	6" x 3' Godwin QD Pipe
I	2	6" Godwin QD Pipe with Female NPT Drain <ul style="list-style-type: none"> • with ball valve and 4" FQD
J	2	2" Combination Air Valve ARI D-025-2

**RENTAL
QUOTATION**

ITEM	QTY	DESCRIPTION
K	2	6" Check Valve with 150# Flange • with 6" Godwin QD
L	8	6" 90 Degree Godwin QD Bend
M	2	6" 45 Degree Godwin QD Bend
N	6	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
O	1	6" Godwin QD Tee Female x Female x Male
P	1	8" 150# Flange x 6" 150# Flange Concentric Adapter
Q	1	6" FQD x 6" 150# Flange adaptor
R	6	1" x 50' Hydraulic Hose with Wingnut Couplers
S	3	1/2" x 50' Hydraulic Hose with Push Connect Fittings

ESTIMATED DAILY RENTAL TOTAL
\$ 1,340.00
ESTIMATED DELIVERY CHARGE
\$ 500.00
ESTIMATED PICKUP CHARGE
\$ 500.00
REQUIRED EXTRAS
\$ 0.00

SITE NO.:

80-18

LOCATION:

**Palm Desert
43-000 Cook Street
Water Reclamation
Plant No. 10**



MANUFACTURER: ITT FLYGT

PUMP DATA: Pumps 1, 2 & 3 Submersible

MOTOR DATA: FLYGT

PUMP MODEL NO.: NP31503 HT

H.P.: 18

GPM: 500

PHASE: 3

TDH: 65'

HERTZ: 60

APPROX. HOLDING TIME: Unknown

VOLTS: 480

NEAREST OVERFLOW POINT: Undetermined

**STANDBY GENERATOR: YES
NO**

PLAT SHEET: 5-6-15-3

MANHOLE NO.: Unknown

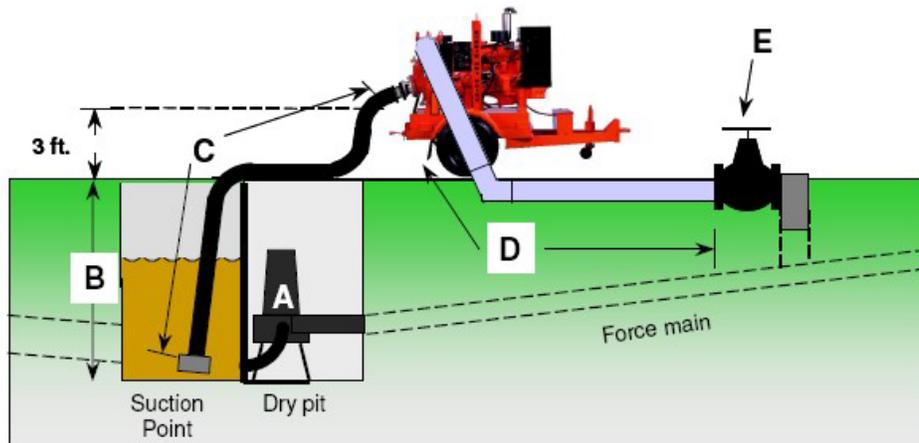
**EMERGENCY BY-PASS: YES
NO**

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	80-18
Pump Station Address:	43-000 Cook Street Water Reclamation Plant
Contact Name(s):	
Phone #:	760-398-2651

Typical Lift Station Design



A. What is the existing lift station rated for?

500 GPM @ 0 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 28 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? N/A Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 60 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 6" 150# Flange

Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
Godwin Pumps of America, Inc
11171 Harrel St.
Mira Loma Ca. 91752

Carmen Cordova
Office (951) 681-3636
Cell (562) 572-4738

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin GHPU10 Diesel Power Pack <ul style="list-style-type: none"> • Primary Unit • John Deere 3015D diesel engine • GP60 highway trailer, 60 gal fuel tank
B	1	Godwin GHPU10 Diesel Power Pack <ul style="list-style-type: none"> • Stand-By Unit • John Deere 3015D diesel engine • GP60 highway trailer, 60 gal fuel tank
C	2	Godwin Heidra 100TD Hydraulic Pumpend <ul style="list-style-type: none"> • 4" FNPT discharge • Anti-Cavitation kit, Biodegradable oil • With 6" MQD fitting on discharge
D	8	3/4" x 50' Hydraulic Hose with Wingnut Couplers
E	4	1/2" x 50' Hydraulic Hose with Push Connect Fittings
F	2	6" x 20' Godwin QD Pipe
G	4	6" x 10' Godwin QD Pipe
H	4	6" x 3' Godwin QD Pipe
I	2	6" Godwin QD Pipe with Female NPT Drain <ul style="list-style-type: none"> • With 4" FQD and 4 " Ball valve for air vac and flushing
J	2	6" Check Valve with 150# Flange <ul style="list-style-type: none"> • With Godwin qd
K	4	6" 90 Degree Godwin QD Bend

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
L	1	6" Godwin QD Tee Female x Female x Male
M	2	2" Combination Air Valve ARI D-025-2
N	2	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
O	1	6" FQD x 6" 150# Flange adaptor NBG included
P	1	Auto Diesel Control Panel, 12 Volts <ul style="list-style-type: none"> • with two 65' Floats • with 25' harness with round plug • mounted on stand
		<i>ESTIMATED DAILY RENTAL TOTAL</i>
		\$ 851.00
		<i>ESTIMATED DELIVERY CHARGE</i>
		\$ 500.00
		<i>ESTIMATED PICKUP CHARGE</i>
		\$ 500.00
		<i>REQUIRED EXTRAS</i>
		\$ 0.00

SITE NO.: 80-19

LOCATION: Indian Wells Miles Ave and
Whitewater Storm Channel



MANUFACTURER: FAIRBANKS MORSE

PUMP DATA: Pumps 1 & 2 Submersible

MOTOR DATA: FAIRBANKS

PUMP MODEL NO.: 4"D5435MV

H.P.: 60

GPM: 865

PHASE: 3

TDH: 144'

HERTZ: 60

APPROX. HOLDING TIME: 2-4 hours

VOLTS: 460

NEAREST OVERFLOW POINT: Undetermined

STANDBY GENERATOR: YES
NO

PLAT SHEET: 5-6-24-2

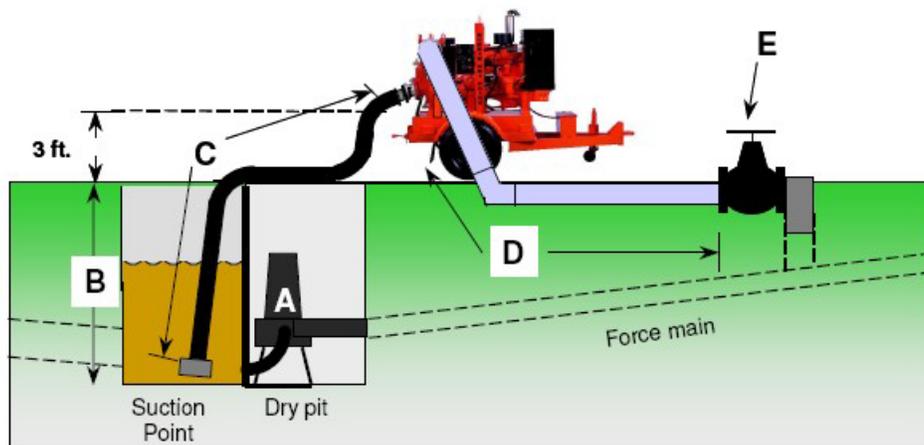
MANHOLE NO.: Unknown

EMERGENCY BY-PASS: YES
NO



Municipality:	Coachella Valley Water
Pump Station Name:	80-19
Pump Station Address:	Miles Ave Indian Wells, CA
Contact Name(s):	
Phone #:	760-398-2651
	Cross St White Water Storm Channel

Typical Lift Station Design



A. What is the existing lift station rated for? 500 GPM @ 20 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 16 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 50 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 6" Flange
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St. Mira Loma Ca. 91752	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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**RENTAL
QUOTATION**

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD150M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 6" 150# Flange Suction and Discharge • John Deere 4045D diesel engine • Highway trailer, 80 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
B	1	Godwin Dri-Prime CD150M Diesel Pump <ul style="list-style-type: none"> • Primary Unit • 6" 150# Flange Suction and Discharge • John Deere 4045D Diesel Engine • GP60 highway trailer, 60 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
C	2	Auto Diesel Control Panel, 12 Volts with two 65' Floats <ul style="list-style-type: none"> • with 25' harness with round plug mounted on stand
D	1	6" FQD x 6" 150# Flange adaptor
E	6	6" x 10' Black Water Suction Hose with Godwin QD Fittings
F	2	6" Godwin QD Step Bow
G	2	6" Check Valve with 150# Flange with Godwin QD
H	1	6" Godwin QD Tee Female x Female x Male
I	6	6" 90 Degree Godwin QD Bend
J	4	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings

ESTIMATED DAILY RENTAL TOTAL

\$ 979.00

ESTIMATED DELIVERY CHARGE

\$ 500.00

ESTIMATED PICKUP CHARGE

\$ 500.00

REQUIRED EXTRAS

\$ 0.00

SITE NO.:

81-01

LOCATION:

**Palm Desert
Washington**

Street

**and Country
Club Drive**



MANUFACTURER: GODWIN PUMP

PUMP DATA: Group I

PUMP MODEL NO.: HL250M

GPM: 3500

TDH: 125

APPROX. HOLDING TIME: 1-2 hours

NEAREST OVERFLOW POINT: Emerald Place

PLAT SHEET: 5-6-1-4

MANHOLE NO.:5-7-7-2 CO #15

ENGINE DATA: CATERPILLAR

H.P.: 440

PHASE: N/A

HERTZ: N/A

VOLTS: N/A

STANDBY GENERATOR: YES

NO

EMERGENCY BY-PASS: YES

NO

SITE NO.:

81-01

LOCATION:

**Palm Desert
Washington**

Street

**and Country
Club Drive**



MANUFACTURER: Vaughan

PUMP DATA: Pumps 1 & 2 Submersibles

MOTOR DATA: Baldor

PUMP MODEL NO.: S8N5

H.P.: 125

GPM: 3340

PHASE: 3

TDH: 78'

HERTZ: 60

APPROX. HOLDING TIME: 1-2 hours

VOLTS: 460

NEAREST OVERFLOW POINT: Emerald Place

STANDBY GENERATOR: YES
NO

PLAT SHEET: 5-6-1-4

MANHOLE NO.: 5-7-7-2 CO #15

EMERGENCY BY-PASS : YES

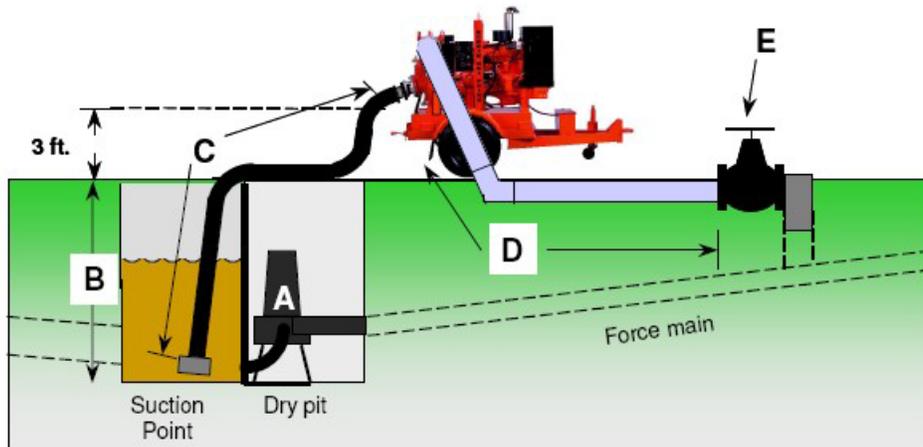
NO

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	81-01
Pump Station Address:	Washington Street Palm Desert, CA
Contact Name(s):	
Phone #:	760-398-2651
	Cross Street Country Club

Typical Lift Station Design



A. What is the existing lift station rated for? 3,500 GPM @ 54.11 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 19 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 150 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 12" 150# Flange
Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
Godwin Pumps of America, Inc
11171 Harrel St.
Mira Loma Ca. 91752

Carmen Cordova
Office (951) 681-3636
Cell (562) 572-4738

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION	
A	1	Godwin Dri-Prime HL250M Diesel Pump <ul style="list-style-type: none"> • Primary Unit • 12" x 10" 150# FL suction and discharge • Caterpillar C15 Diesel Engine • Skid-mounted, 250 gal fuel tank 	
B	1	Godwin Godwin PrimeGuard Float Set <ul style="list-style-type: none"> • w/ 65' NM Mechanical Floats 	
C	1	12" 150# Flange x 10" 150# Flange Concentric Adapter <ul style="list-style-type: none"> • For Discharge on pump 	
D	4	12" 90 Degree Bend with 150# Flange	
E	15	12" x 10' Cargo Hose with 150# Flange Fittings	
F	3	12" x 10' Black Water Suction Hose with Godwin QD Fittings	
G	1	12" Check Valve with 150# Flange	
H	1	12" 90 Degree Godwin QD Bend	
I	1	12" x 12" x 4" 150# Flanged Tee	
J	1	2" Combination Air Valve ARI D-025-2 <ul style="list-style-type: none"> • High Pressure Air vac with ball valve and 4" 150# Flange connection 	
		<i>ESTIMATED DAILY RENTAL TOTAL</i>	\$ 1,858.00
		<i>ESTIMATED DELIVERY CHARGE</i>	\$ 500.00
		<i>ESTIMATED PICKUP CHARGE</i>	\$ 500.00
		<i>REQUIRED EXTRAS</i>	\$ 0.00

SITE NO.:

81-03

LOCATION:

**Indio
Burr Street**



MANUFACTURER: Vaughan

PUMP DATA: Pumps 1 & 2 Submersibles

MOTOR DATA: Baldor

PUMP MODEL NO.: S8P6

H.P.: 200

GPM: 2400

PHASE: 3

TDH: 145'

HERTZ: 60

APPROX. HOLDING TIME: 1-3 hours

VOLTS: 460

NEAREST OVERFLOW POINT: Brown St. CO #11

STANDBY GENERATOR: YES
NO

PLAT SHEET: 5-7-16-4
MANHOLE NO.: CO#11

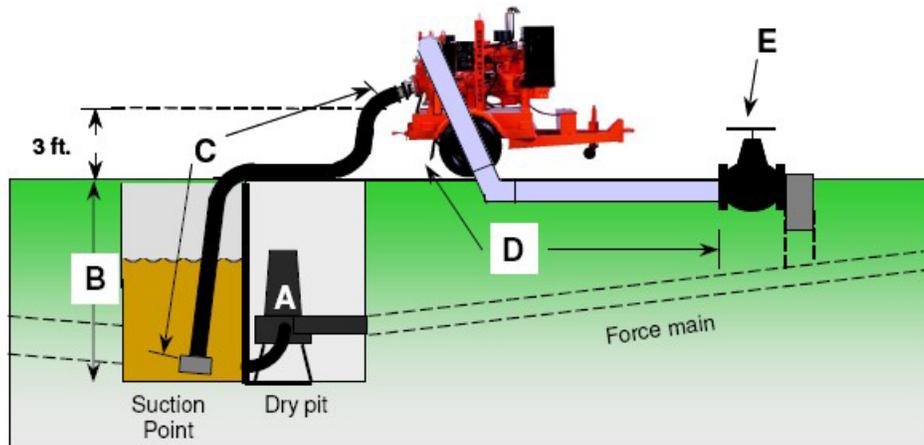
EMERGENCY BY-PASS: YES
NO

NO



Municipality:	Coachella Valley Water
Pump Station Name:	81-03
Pump Station Address:	Burr Street Palm Desert, CA
Contact Name(s):	
Phone #:	760-398-2651
Avenue	42

Typical Lift Station Design



A. What is the existing lift station rated for? 3,500 GPM @ 54.11 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 19 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 150 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 12" 150# Flange
Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information: Godwin Pumps of America, Inc 11171 Harrel St. Mira Loma Ca. 91752	Carmen Cordova Office (951) 681-3636 Cell (562) 572-4738
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RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime HL250M Diesel Pump <ul style="list-style-type: none"> • Primary Unit • 12" x 10" 150# FL suction and discharge • Caterpillar C15 Diesel Engine • Skid-mounted, 250 gal fuel tank
B	1	Godwin Godwin PrimeGuard Float Set <ul style="list-style-type: none"> • w/ 65' NM Mechanical Floats
C	1	12" 150# Flange x 10" 150# Flange Concentric Adapter <ul style="list-style-type: none"> • For Discharge on pump
D	4	12" 90 Degree Bend with 150# Flange
E	15	12" x 10' Cargo Hose with 150# Flange Fittings
F	3	12" x 10' Black Water Suction Hose with Godwin QD Fittings
G	1	12" Check Valve with 150# Flange
H	1	12" 90 Degree Godwin QD Bend
I	1	12" x 12" x 4" 150# Flanged Tee
J	1	2" Combination Air Valve ARI D-025-2 <ul style="list-style-type: none"> • High Pressure Air vac with ball valve and 4" 150# Flange connection
		<i>ESTIMATED DAILY RENTAL TOTAL</i>
		\$ 1,858.00
		<i>ESTIMATED DELIVERY CHARGE</i>
		\$ 500.00
		<i>ESTIMATED PICKUP CHARGE</i>
		\$ 500.00
		<i>REQUIRED EXTRAS</i>
		\$ 0.00

SITE NO.:

81-04

LOCATION:

**Indio Adams Street and
Varner Road**



MANUFACTURER: ESSCO

PUMP DATA: Pumps 1 & 2

PUMP MODEL NO.: 4 x 4 x 10 x 3

GPM: 700

TDH: 45 ft.

APPROX. HOLDING TIME: 2-4 hours

NEAREST OVERFLOW POINT: Undetermined

PLAT SHEET: 5-7-8-2

MANHOLE NO.: Unknown

MOTOR DATA: RELIANCE

H.P.: 15

PHASE: 3

HERTZ: 60

VOLTS: 230/460

STANDBY GENERATOR: YES
NO

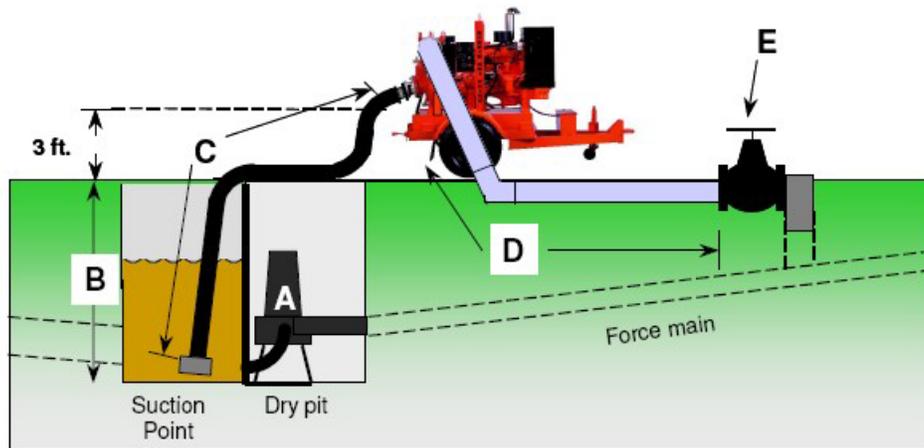
EMERGENCY BY-PASS : YES
NO

Lift Station By-Pass Contingency Plan



Municipality:	Coachella Valley Water
Pump Station Name:	81-04
Pump Station Address:	Adams Street
	Indio, CA
Contact Name(s):	
Phone #:	760-398-2651
	Cross Street Varner Road

Typical Lift Station Design



A. What is the existing lift station rated for? 700 GPM @ 19.5 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 16 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? 30 Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 150 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 6" MCG

Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
Godwin Pumps of America, Inc
11171 Harrel St.
Mira Loma Ca. 91752

Carmen Cordova
Office (951) 681-3636
Cell (562) 572-4738

**RENTAL
QUOTATION**

ITEM	QTY	DESCRIPTION
A	1	Godwin Dri-Prime CD150M Critically Silenced Diesel Pump <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • 6" 150# Flange Suction and Discharge • John Deere 4045D diesel engine • Highway trailer, 80 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
B	1	Godwin Dri-Prime CD150M Diesel Pump <ul style="list-style-type: none"> • Primary Unit • 6" 150# Flange Suction and Discharge • John Deere 4045D Diesel Engine • GP60 highway trailer, 60 gal fuel tank • with 8" FQD Suction and 8" MQD on discharge
C	2	Auto Diesel Control Panel, 12 Volts with two 65' Floats <ul style="list-style-type: none"> • with 25' harness with round plug mounted on stand
D	1	6" FQD x 6" FCG adaptor
E	6	6" x 10' Black Water Suction Hose with Godwin QD Fittings
F	2	6" Godwin QD Step Bow
G	2	6" Check Valve with 150# Flange With Godwin QD
H	1	6" Godwin QD Tee Female x Female x Male
I	6	6" 90 Degree Godwin QD Bend
J	6	6" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings

ESTIMATED DAILY RENTAL TOTAL
\$ 1,041.00
ESTIMATED DELIVERY CHARGE
\$ 500.00
ESTIMATED PICKUP CHARGE
\$ 500.00
REQUIRED EXTRAS
\$ 0.00

SITE NO.:

81-07

LOCATION:

**Indio Varner Rd. &
Coachella Canal**



MANUFACTURER: HOMA

PUMP DATA: Pumps 1 & 2

PUMP MODEL NO.: AMX644-340/53FM

GPM: 1500

TDH: 90'

APPROX. HOLDING TIME: Unknown

NEAREST OVERFLOW POINT: Undetermined

PLAT SHEET: 5-7-9-4

MANHOLE NO.: Unknown

MOTOR DATA: HOMA

H.P.: 52.3

PHASE: 3

HERTZ: 60

VOLTS: 460

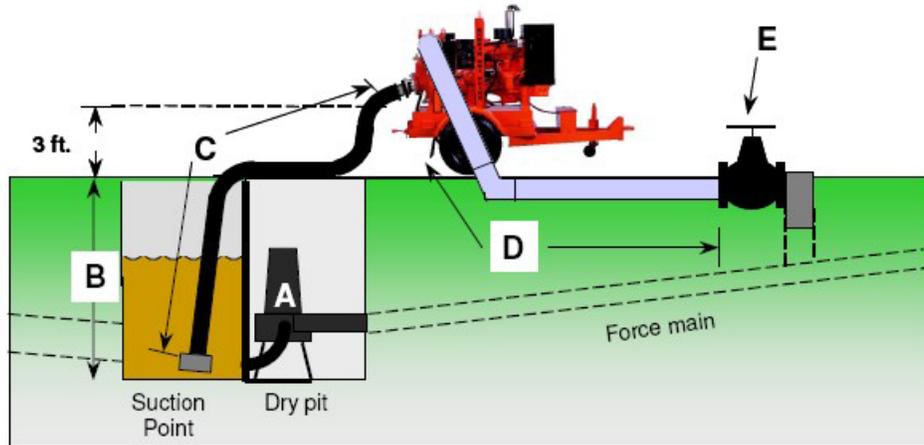
STANDBY GENERATOR: YES
NO

EMERGENCY BY-PASS: YES
NO



Municipality:	Coachella Valley Water
Pump Station Name:	81-07
Pump Station Address:	Varner Road
	Indio, CA
Contact Name(s):	
Phone #	760-398-2651
	Coachella Canal

Typical Lift Station Design



A. What is the existing lift station rated for? 1,500 GPM @ 39 PSI.

Godwin will be able to accurately size a temporary pump by knowing what the service rating of the existing pump(s) is rated for.

B. What is the maximum vertical depth of the suction point? 40 Feet.

This information will help determine whether a surface mounted suction lift or a submersible pump is needed for the application.

C. What length of suction hose will be required? N/A Feet.

Suction hose is determined by access of the temporary pump to the wet well.

D. What length of discharge hose will be required? 150 Feet.

What is the distance from the temporary pump to the tie in point?

E. What is the size and description of the tie-in point? 10" Flange
 Raised face flange or threaded fitting? Size?

Emergency response available 24 hours per day seven days per week.

Emergency contact information:
 Godwin Pumps of America, Inc
 11171 Harrel St.

Carmen Cordova
 Office (951) 681-3636
 Cell (562) 572-4738

RENTAL QUOTATION

ITEM	QTY	DESCRIPTION
A	1	Godwin GHPU50 Critically Silenced Power <ul style="list-style-type: none"> • Primary Unit • Sound Attenuated Enclosure • John Deere 6068T Diesel Engine • Skid-mounted, 175 gal fuel tank
B	1	Godwin GHPU50SG Diesel Power Pack <ul style="list-style-type: none"> • Stand-By Unit • John Deere 6068T diesel engine • Skid-mounted, 175 gal fuel tank
C	2	Godwin Heidra 200 Hydraulic Pumpend <ul style="list-style-type: none"> • 8" 150# FL discharge
D	4	1/2" x 50' Hydraulic Hose with Push Connect Fittings
E	8	1-1/4" x 50' Hydraulic Hose with Wingnut Couplers
F	10	8" X 20' Composite Hose with 150# Flange Fittings
G	1	8" 150# Flanged Tee
H	4	8" 90 Degree Bend with 150# Flange
I	1	8" x 8" x 4" Steel Tee w/150#FL <ul style="list-style-type: none"> • With Ball Valve and 4" FQD on 4" Branch
J	1	10" 150# Flange x 8" 150# Flange Concentric Adapter
K	2	Godwin Godwin PrimeGuard Float Set <ul style="list-style-type: none"> • w/ 65' NM Mechanical Floats

**RENTAL
QUOTATION**

ITEM	QTY	DESCRIPTION
L	2	4" x 50' Heavy Duty Layflat Hose with Godwin QD Fittings
M	2	8" Check Valve with 150# Flange

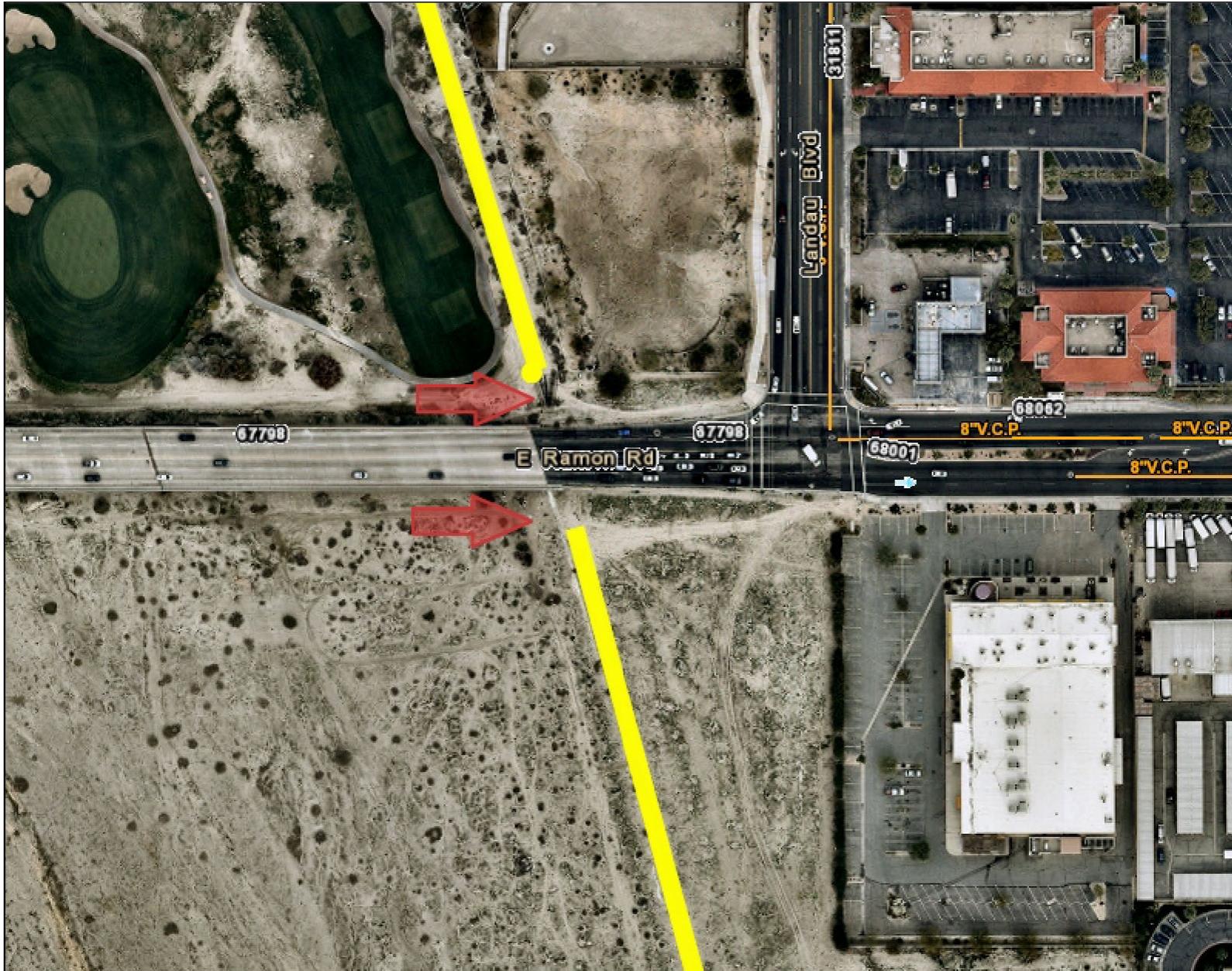
<i>ESTIMATED DAILY RENTAL TOTAL ESTIMATED DELIVERY</i>	\$ 2,424.00
<i>CHARGE ESTIMATED PICKUP CHARGE REQUIRED</i>	\$ 500.00
<i>EXTRAS</i>	\$ 500.00
	\$ 0.00

Coachella Valley Water District



ATTACHMENT I: Stormwater Access Plan

Storm Water Access Plan



Legend

- Sanitation WRP
- Sanitation - Sewer Lines
- CVWD Boundary

Location

Notes

Storm water channel access points and roads at Landau Blvd. and Ramon Road. Four wheel drive vehicles required.

Coachella Valley Water District



P.O. Box 1058
Coachella, CA 92236
www.cvwd.org



1: 1,754



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines
- CVWD Boundary

Location

Notes

Access point to storm water channel at Lakeland Drive, Cathedral City.

Coachella Valley Water District



P.O. Box 1058
Coachella, CA 92236
www.cvwd.org

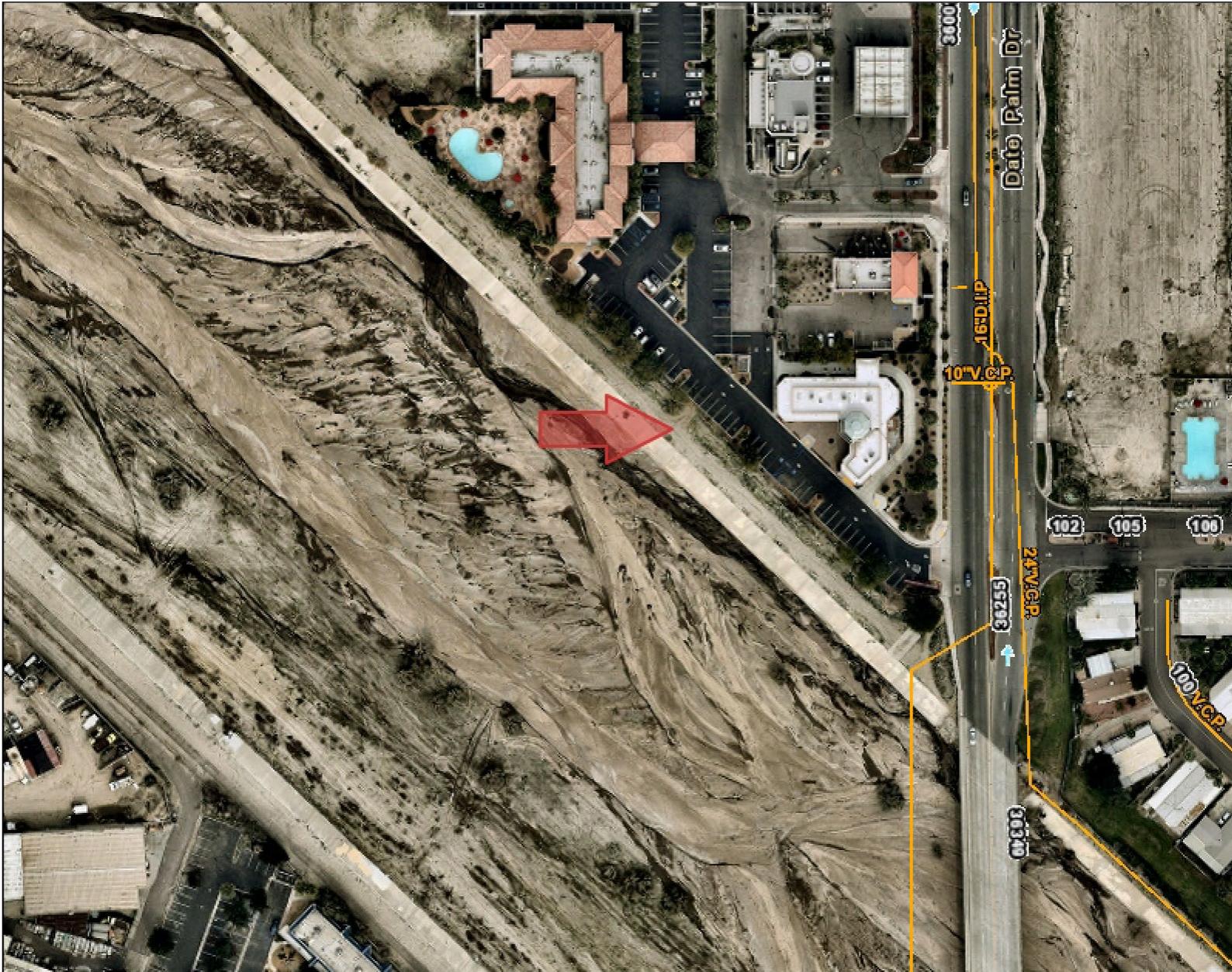


1 : 1,746



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

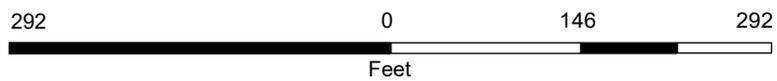
Notes

Temporary construction road access behind Jiffy Lube on Date Palm Drive at the Storm Channel. Access to Channel but 4x4 required to navigate channel.

Coachella Valley Water District



P.O. Box 1058
 Coachella, CA 92236
www.cvwd.org



1: 1,754



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



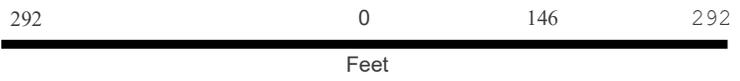
Notes

Access via golf courses on Country Club Drive at Storm Water Channel, Rancho Mirage. Equipment should be able to drive on this area of the Storm Channel with little issue

Coachella Valley Water District



P. O. Box 1058
 Coachella, CA 92236
www.crvd.org



1: 1,750



This product is for informational purposes and may not have been prepared for, or be suitable for, legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Storm Water Access Plan



Legend

- Sanitation WRP's
- Sanitation - Sewer Lines

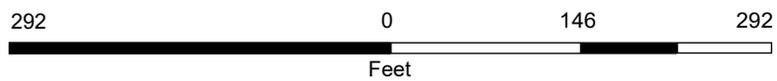
Location

Notes

Access to Storm Channel via Sunrise C.C. on the north side of the channel and White Water Park to the south. Both access points are in Rancho Mirage and require four-wheel drive to traverse the channel for any distance once in the wash.

Coachella Valley Water District

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Coachella, CA 92236
www.cvwd.org



1: 1,754



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

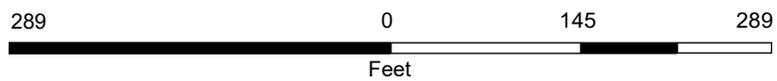
Notes

Access to Storm Channel via Avenida Las Palmas, Rancho Las Palmas Country Club in Rancho Mirage. Most equipment should be able to access area via the golf course inside the Storm Channel.

Coachella Valley Water District



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1: 1,736



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Access to Storm Channel El Toro Drive inside Rancho Las Palmas Country Club, Rancho Mirage. Most equipment should be able to access area via the golf course inside the Storm Channel.

Coachella Valley Water District



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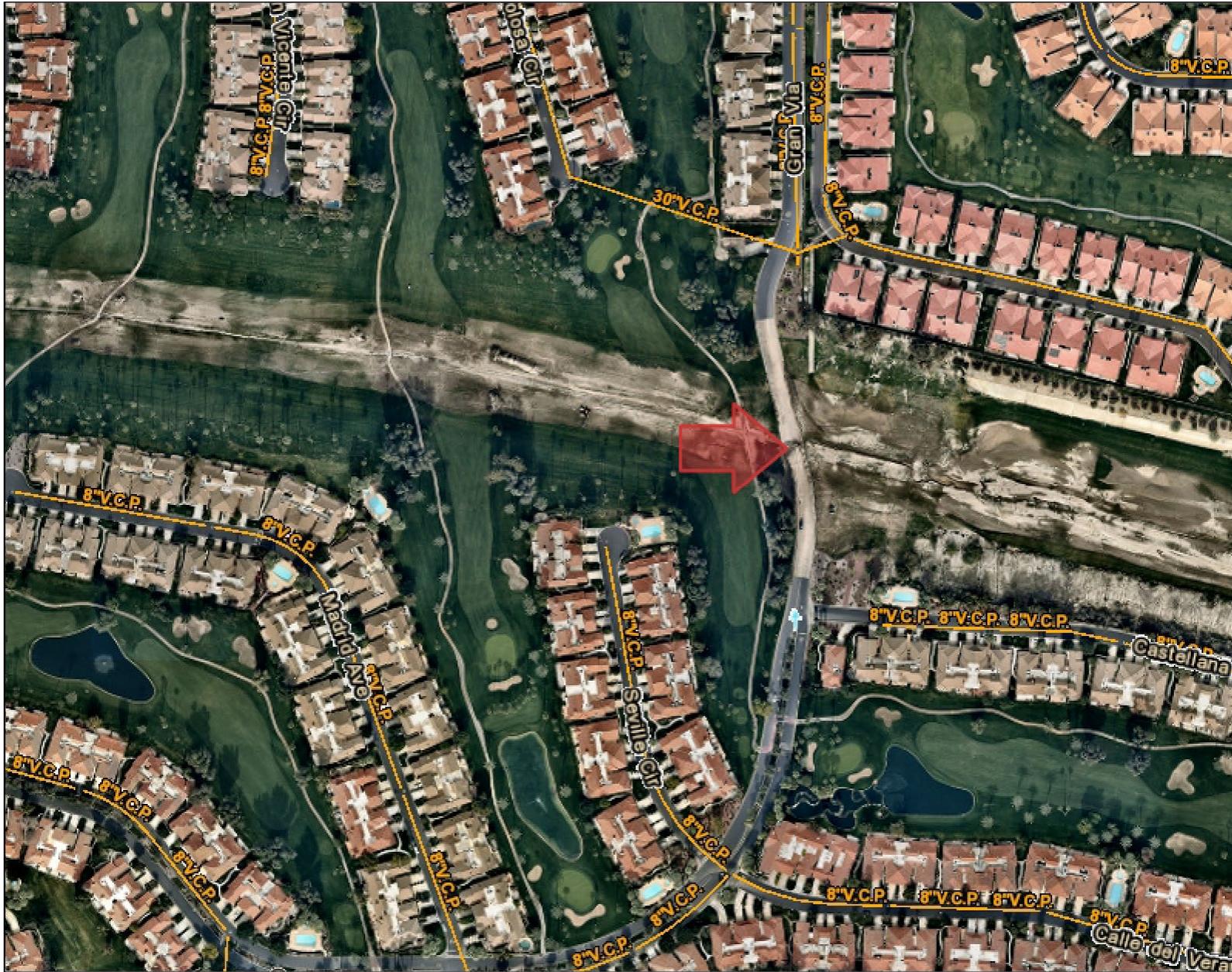


1: 1,736



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Storm Water Access Plan



Legend

- Sanitation WRP's
- Sanitation - Sewer Lines

Location



Notes

Access to Storm Channel, Monterey Country Club, Gran Via at the Storm Channel. Golf course should be traversable with most vehicles and equipment.

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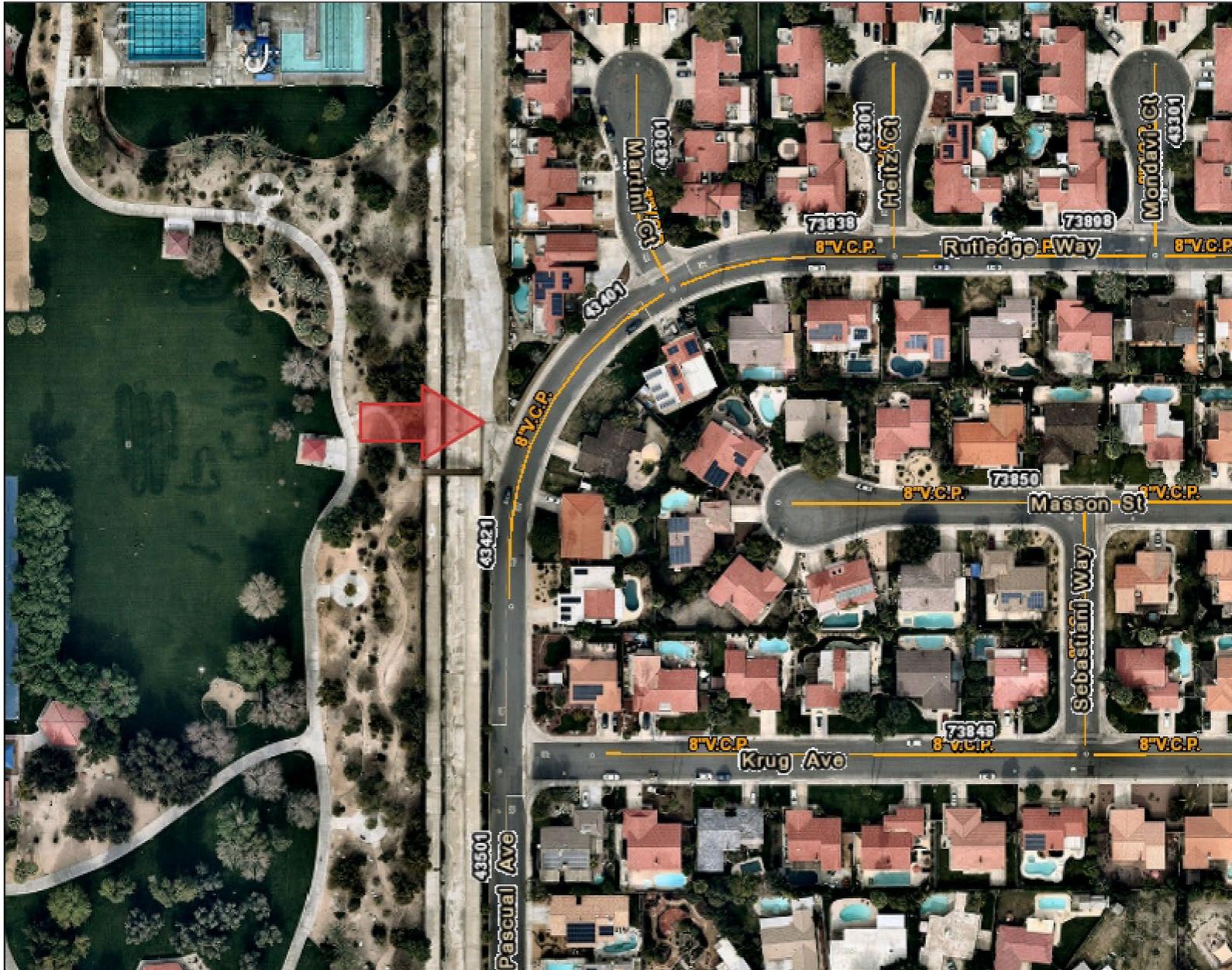


1: 3,508



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Storm Water Access Plan



Legend

- Sanitation WRP's
- Sanitation - Sewer Lines

Location



Notes

Access to Storm Channel Run off on San Pascual Ave, Palm Desert. Run off basin is cement and should be traversable by all equipment and vehicle from Fred Waring Drive to the Golf Course at Monterey Country Club.

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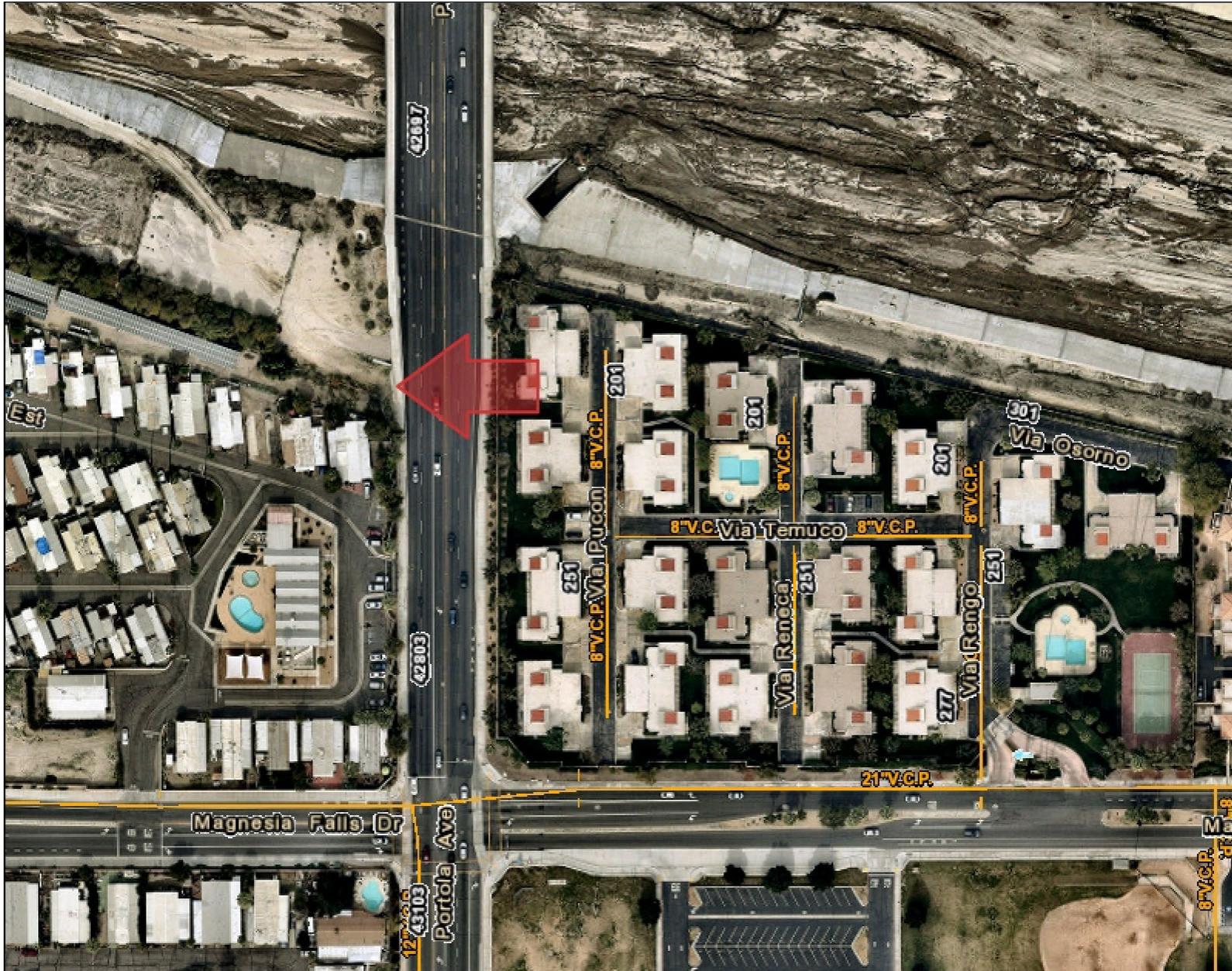


1: 1,754



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

A small map showing the location of Palm Desert, CA. It is situated between Cathedral City to the north and Irrieta to the south. A red dot marks Palm Desert, and a blue dashed line indicates the storm water access route. Interstate 10 is also shown.

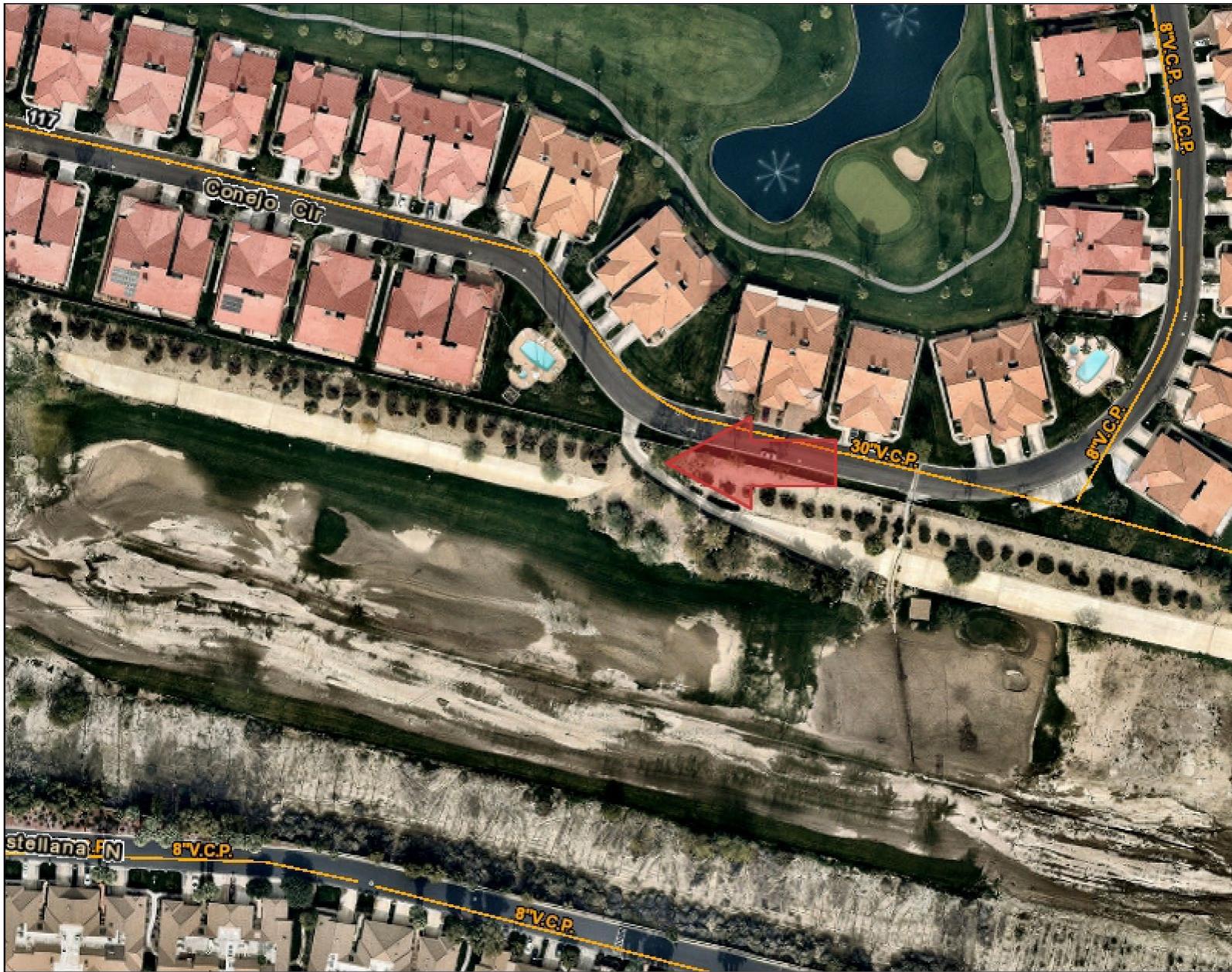
Notes

Access to Storm Channel on southwest side of channel on Portola Ave, Palm Desert. Four wheel drive vehicles and equipment needed to navigate the channel in this area.

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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

Notes

Access to Storm Water Channel via Canejo Circle inside Chaparral Country Club, Palm Desert. Most equipment and vehicles should be able to traverse driving range.

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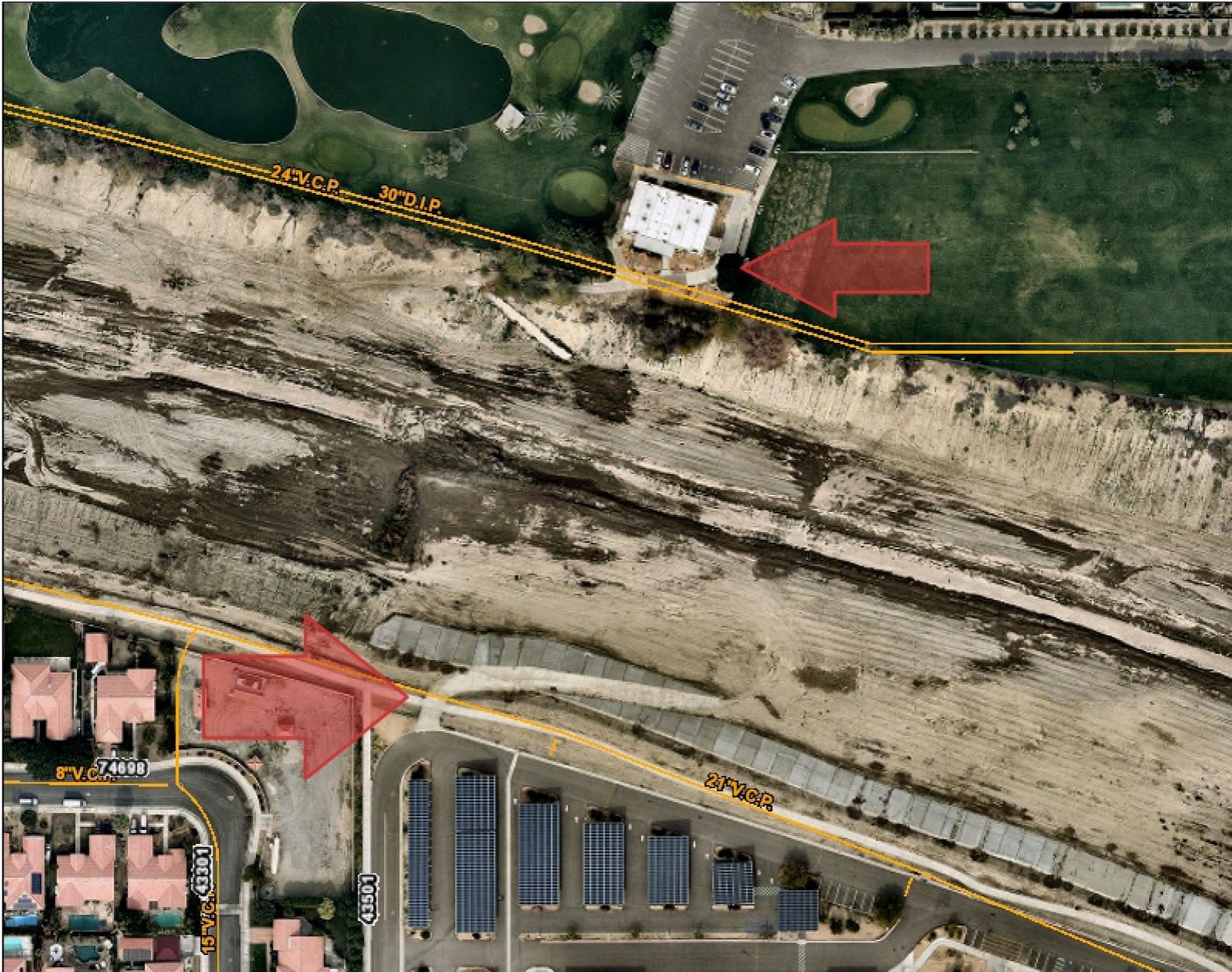


1: 1,754



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Access to Storm Water Channel via The First Tee Golf Course and Phyllis Jackson Lane in Palm Desert. While there is access to the channel at these locations, 4x4 equipment and vehicles needed to navigate the channel once inside.

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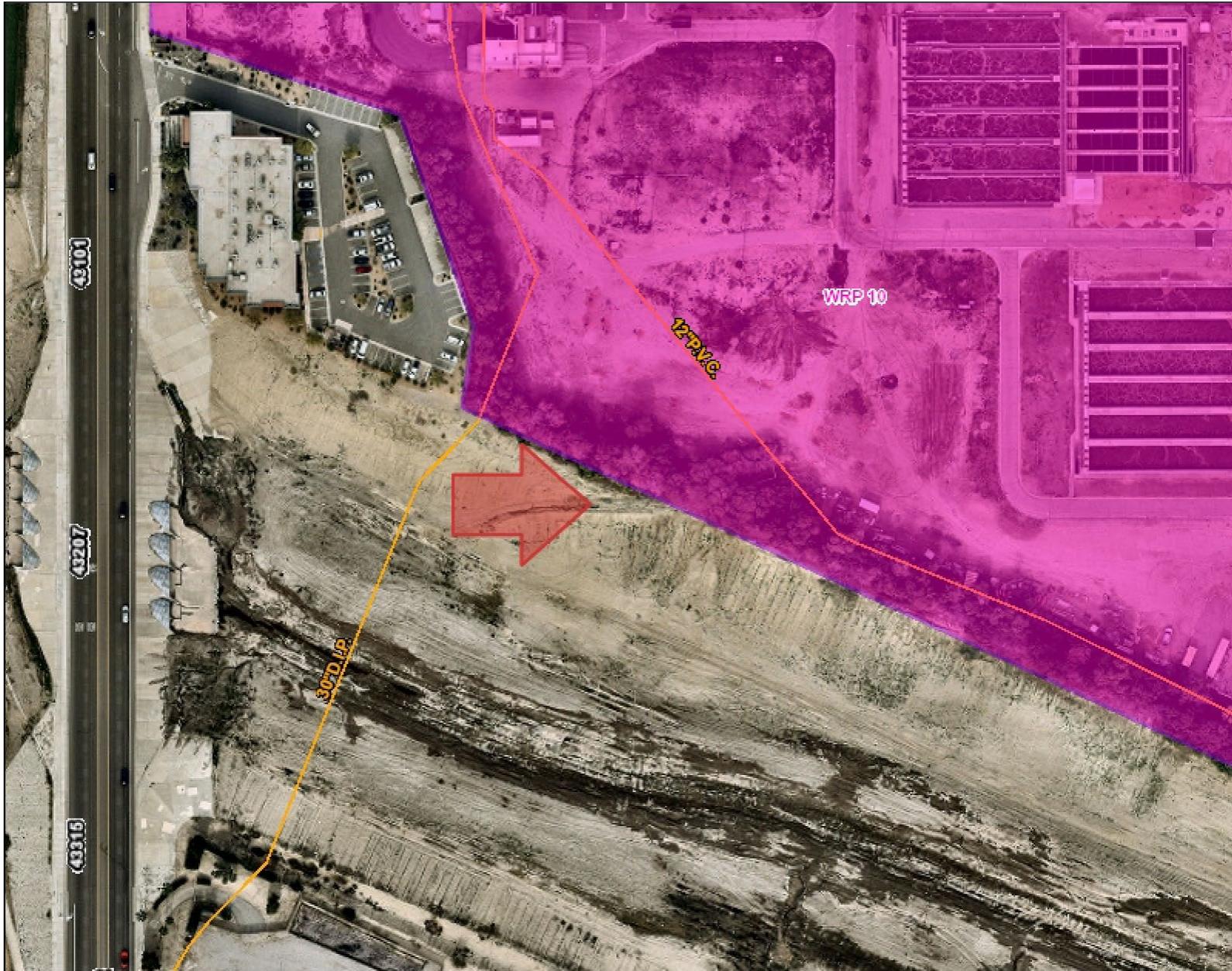


1: 1,754



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

Notes

Access to storm channel is available through an access ramp along the south fence line of WRP #10. Once inside the channel at this location 4x4 vehicle and equipment will be required to navigate the channel.

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1: 1,748



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Access to Storm Channel via cart path behind the clubhouse at the Indian Wells Golf Resort. Most vehicles and equipment should be able to navigate this section of the channel due to the golf course.

Coachella Valley Water District



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1: 877



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines



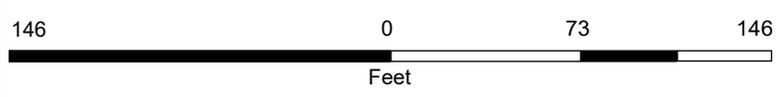
Notes

Access to storm channel via cart path behind the Esmerelda parking structure. Most vehicles and equipment should be able to navigate this section of the channel do to the golf course.

Coachella Valley Water District



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1: 877



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Storm Water Access Plan



Legend

- Sanitation WRP's
- Sanitation - Sewer Lines

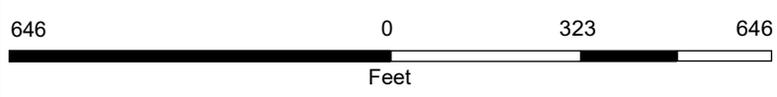
Location

Notes

Access road to storm channel on east side of Mies Ave. approx. 200 feet north of HWY 111. Four wheel drive equipment and vehicles recommended to navigate storm channel in this area.

Coachella Valley Water District

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1: 3,874



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



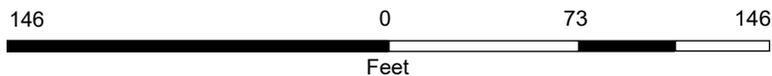
Notes

Access to La Quinta run off channel at the north end of Avenida Carranza via golf course. All equipment should be able to navigate the golf course and channel in this area.

Coachella Valley Water District



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1: 877



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Storm Water Access Plan



Legend

- Sanitation WRP's
- Sanitation - Sewer Lines

Location

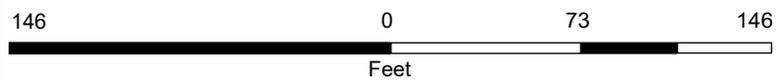
Notes

Access to La Quinta run off channel at the crossing on Ace. 50 as well as the golf cart path on Doral St. in La Quinta. All equipment should be able to navigate the golf course and channel in this area. This are of the channel has an access road as well.

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1: 877



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

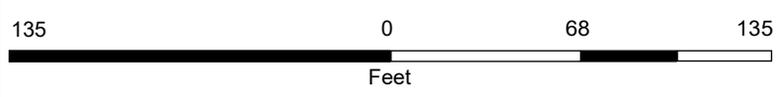
Notes

Access to storm channel via Mountain Cove Dr. Indian Wells. Equipment can reach main channel via concrete wash but will require an access road at the main channel

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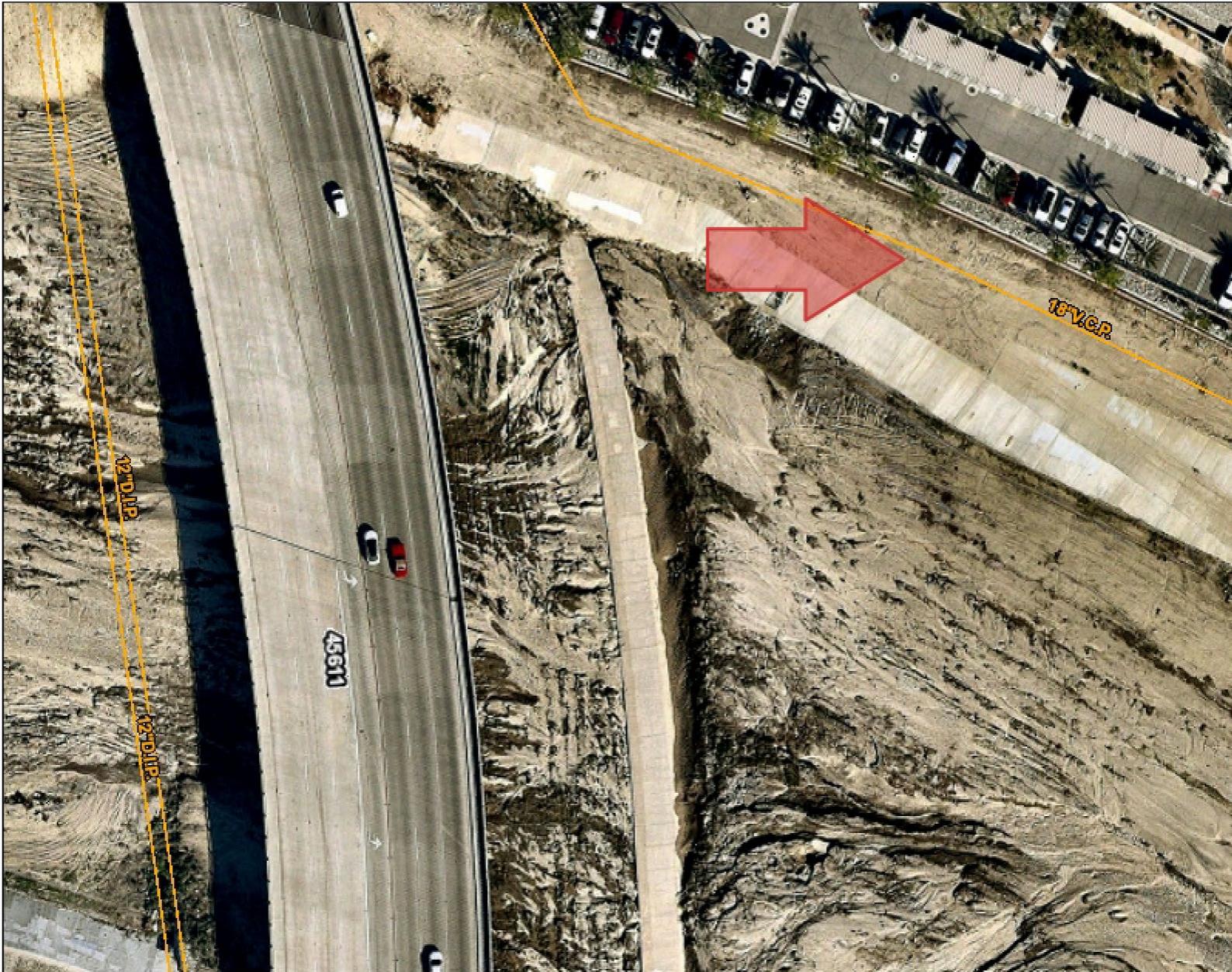


1: 811



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

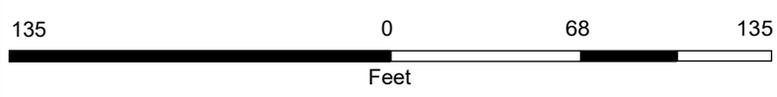
Notes

Access to storm channel via access ramp at Washington St. La Quinta. Equipment can reach main channel via concrete access ramp but will require an access road at the main channel.

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1: 811



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Access to storm channel via cement ramp on Adams St. south of baseball fields @ La Quinta High School. Four-wheel drive required to navigate channel in this area.

Coachella Valley Water District



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1: 3,579



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

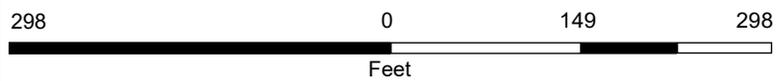
Notes

Access to storm channel via dirt road on Dune Palms south of trailer park @ storm channel. Four-wheel drive required navigating channel in this area. Although there is a temporary dirt road in the area as of now.

Coachella Valley Water District



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1: 1,790



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Access to storm channel via concrete access road on the south side of storm channel @ Jefferson St. Four-wheel drive required to navigate channel in the area.

Coachella Valley Water District



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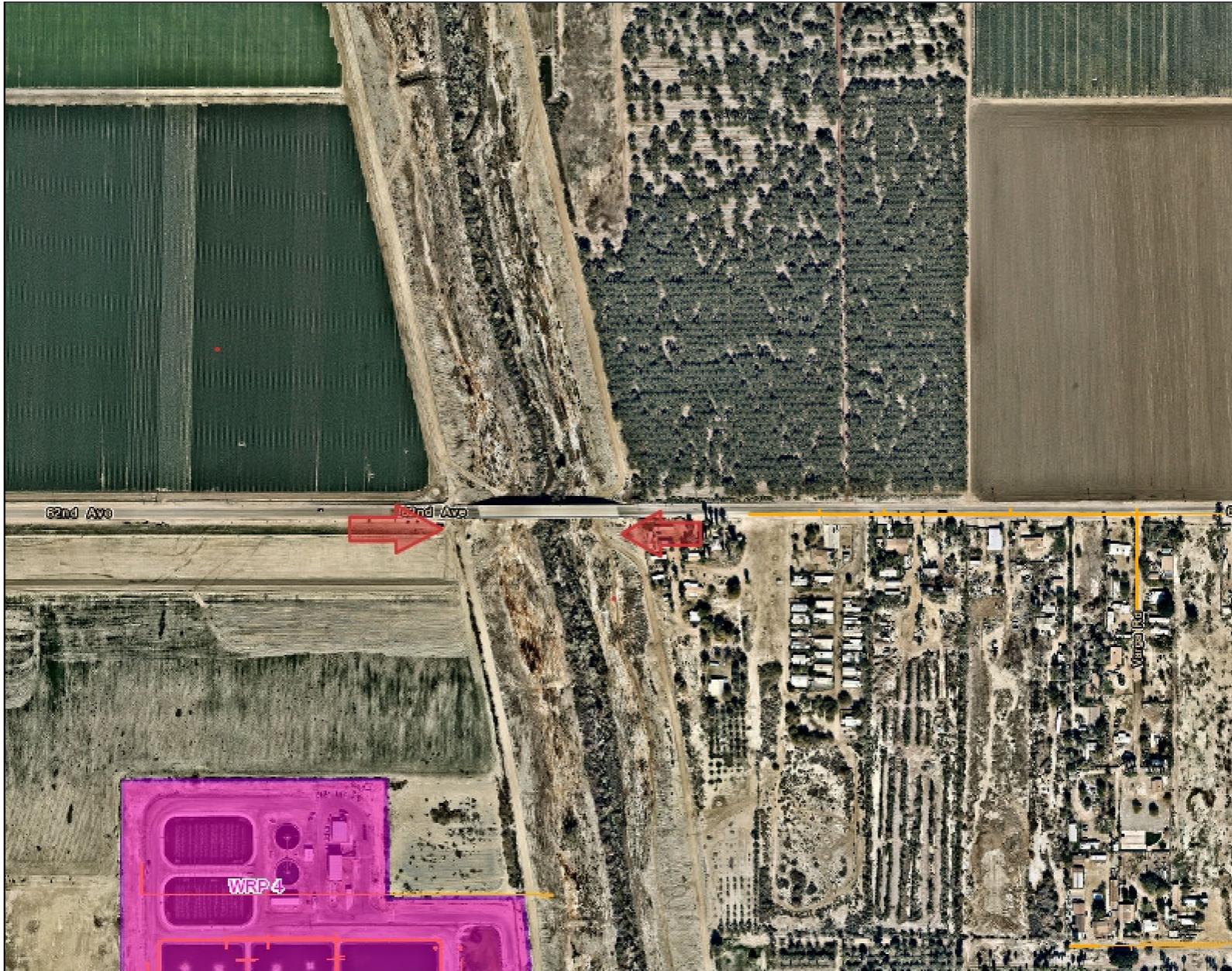


1 : 1,790



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Storm channel access @ Ave 62 and storm channel crossing. Multiple access roads. Four-wheel drive recommended.

Coachella Valley Water District



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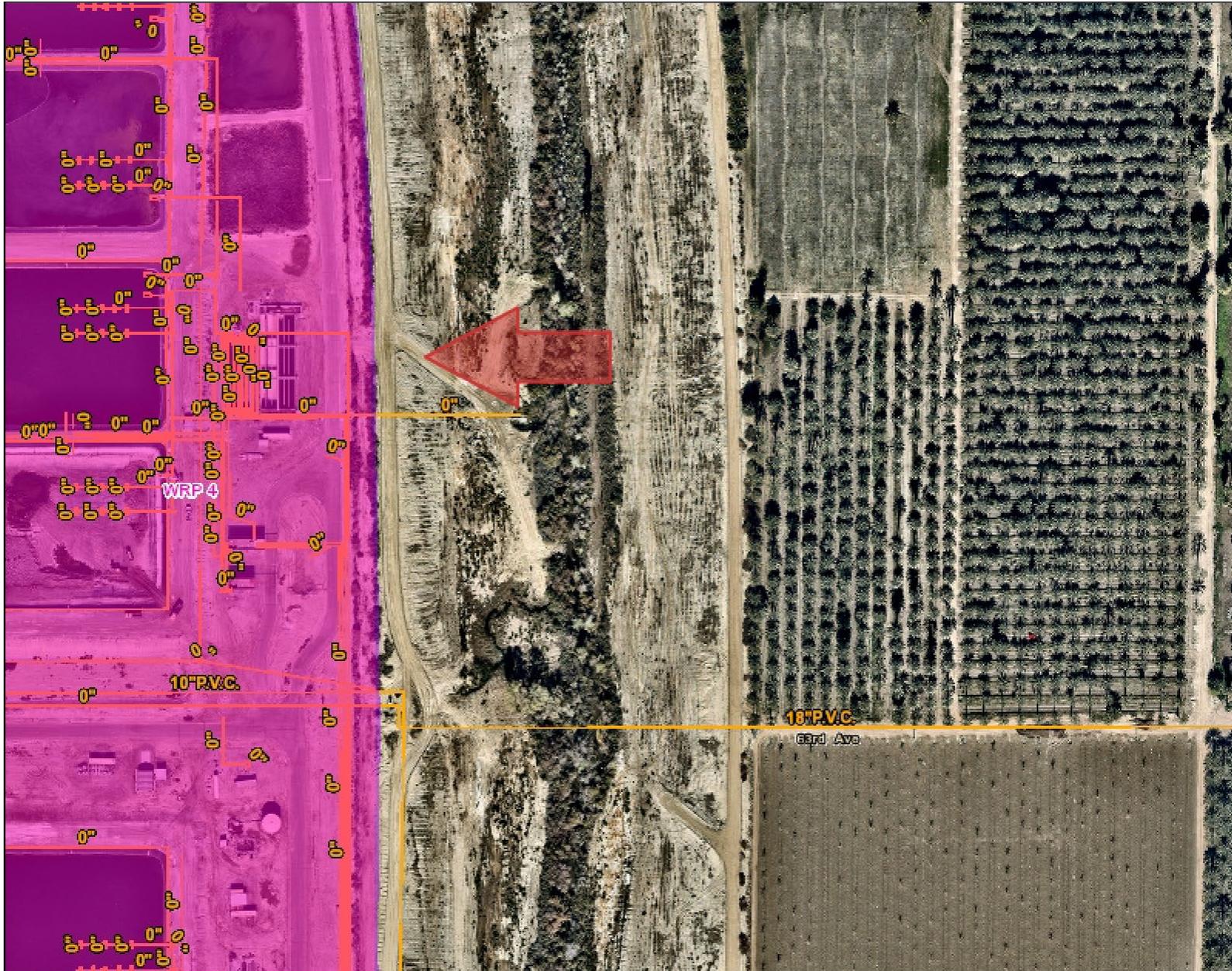


1: 5,612



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Storm channel access @ WRP #4.
Multiple access roads. Four-wheel drive recommended.

Coachella Valley Water District



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1: 2,806



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Storm channel access @ Ave. 66 and storm channel crossing. Four-wheel drive recommended if entering channel.

Coachella Valley Water District



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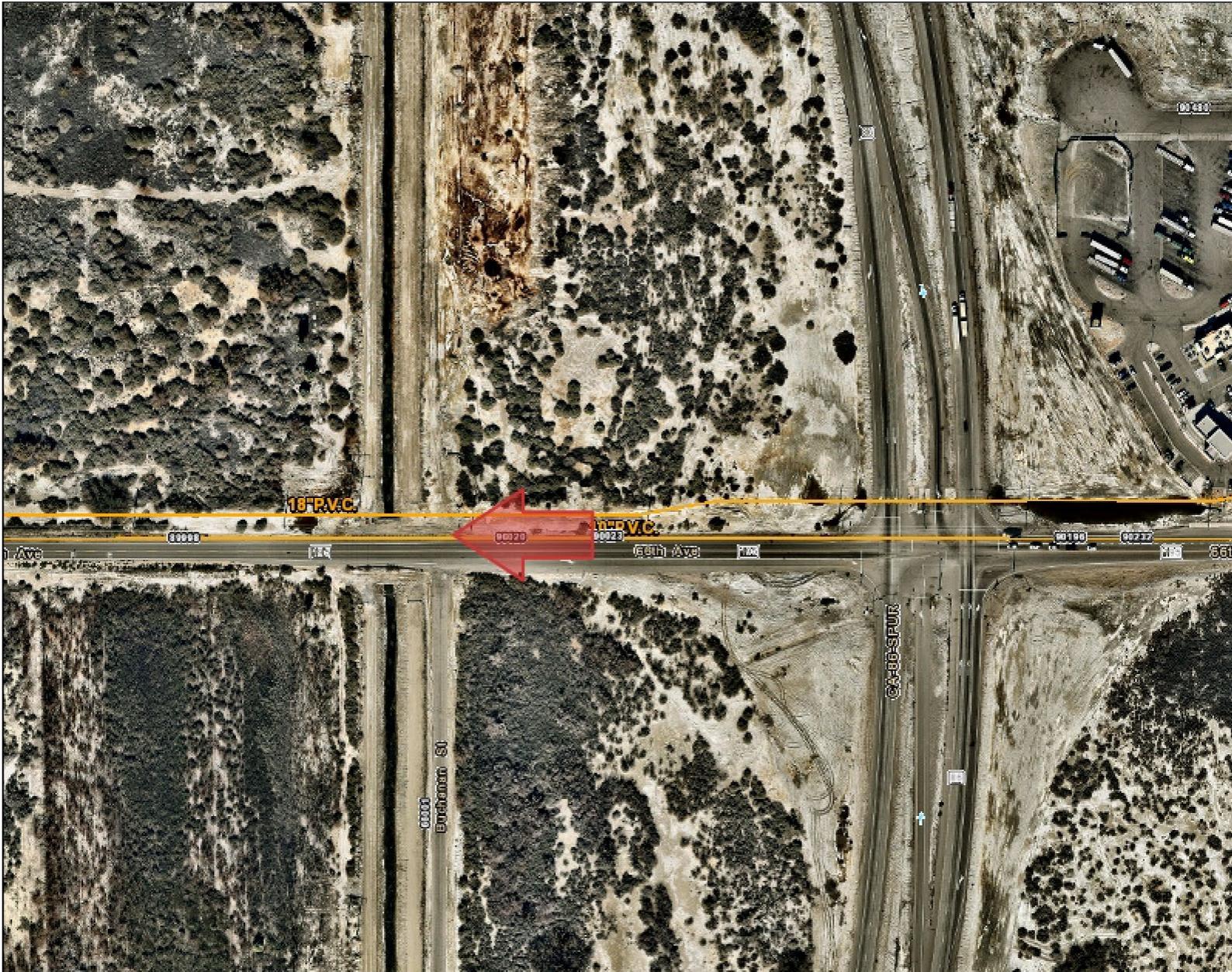


1: 2,806



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

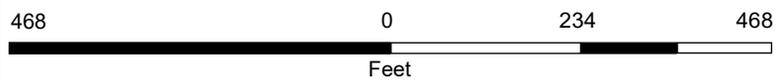
Notes

Force main crosses storm channel on Ave. 66 & Buchanan. Access on the shoulder of the road. All equipment should be able to access this area.

Coachella Valley Water District



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1: 2,806



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

Force main crosses storm channel on Ave. 66 & Grapefruit Blvd. Access on the shoulder of the road. All equipment should be able to access this area.

Coachella Valley Water District



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1: 1,403



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Storm Water Access Plan



Legend

- Sanitation WRP's
- Sanitation - Sewer Lines

Location



Notes

Force main runs parallel to the Coachella Canal in this area. Canal access at Ave. 42 and canal crossing. All equipment should be able to access this area.

Coachella Valley Water District



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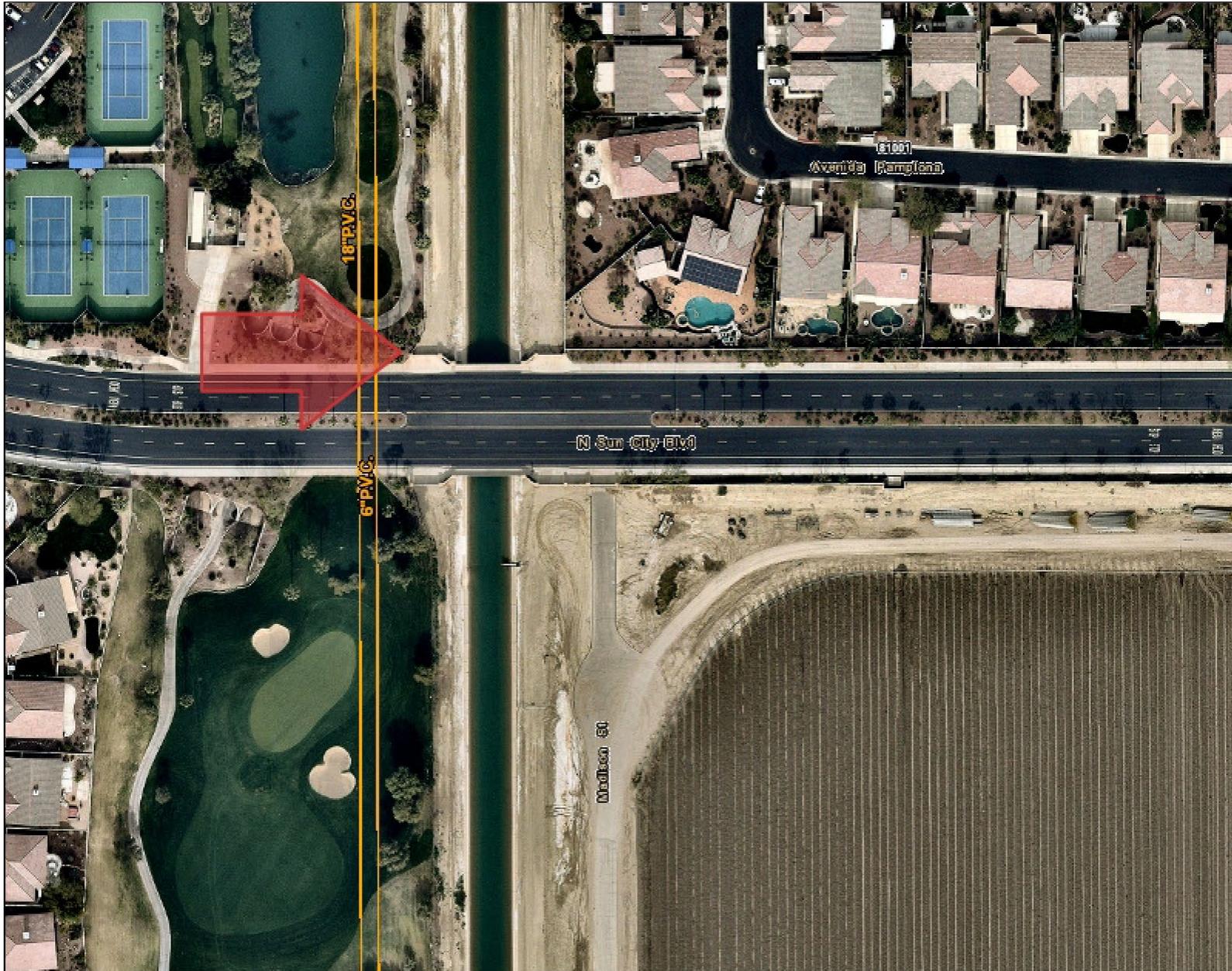


1 : 2,806



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location

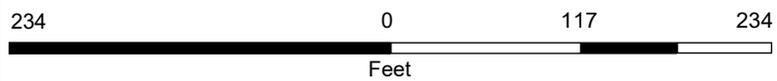
Notes

Force main runs parallel to the Coachella Canal in this area. Canal access at Sun City Blvd. and canal crossing. All equipment should be able to access this area.

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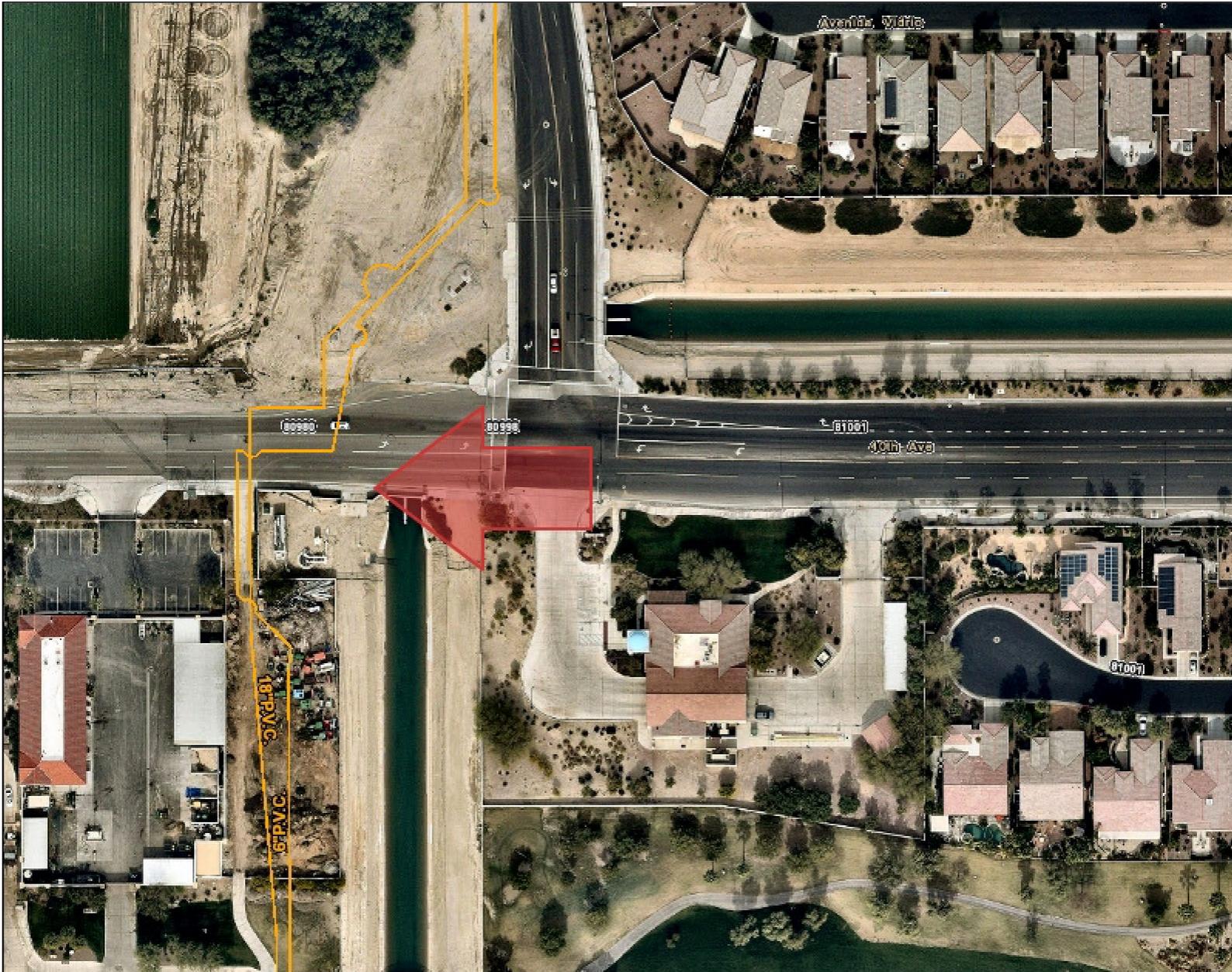


1: 1,403



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Storm Water Access Plan



Legend

- Sanitation WRP's
- Sanitation - Sewer Lines

Location

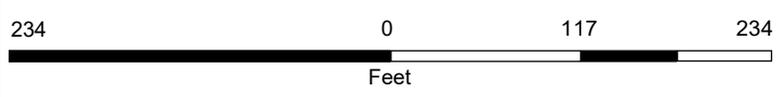
Notes

Force main runs parallel to the Coachella Canal in this area. Canal access at 40th Ave. and canal crossing. All equipment should be able to access this area.

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1: 1,403



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

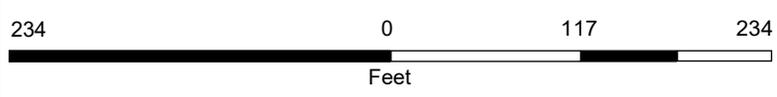
Location

Notes

Force main crosses the Coachella Canal in this area. Canal access at Ave. 50 and canal crossing. All equipment should be able to access this area.

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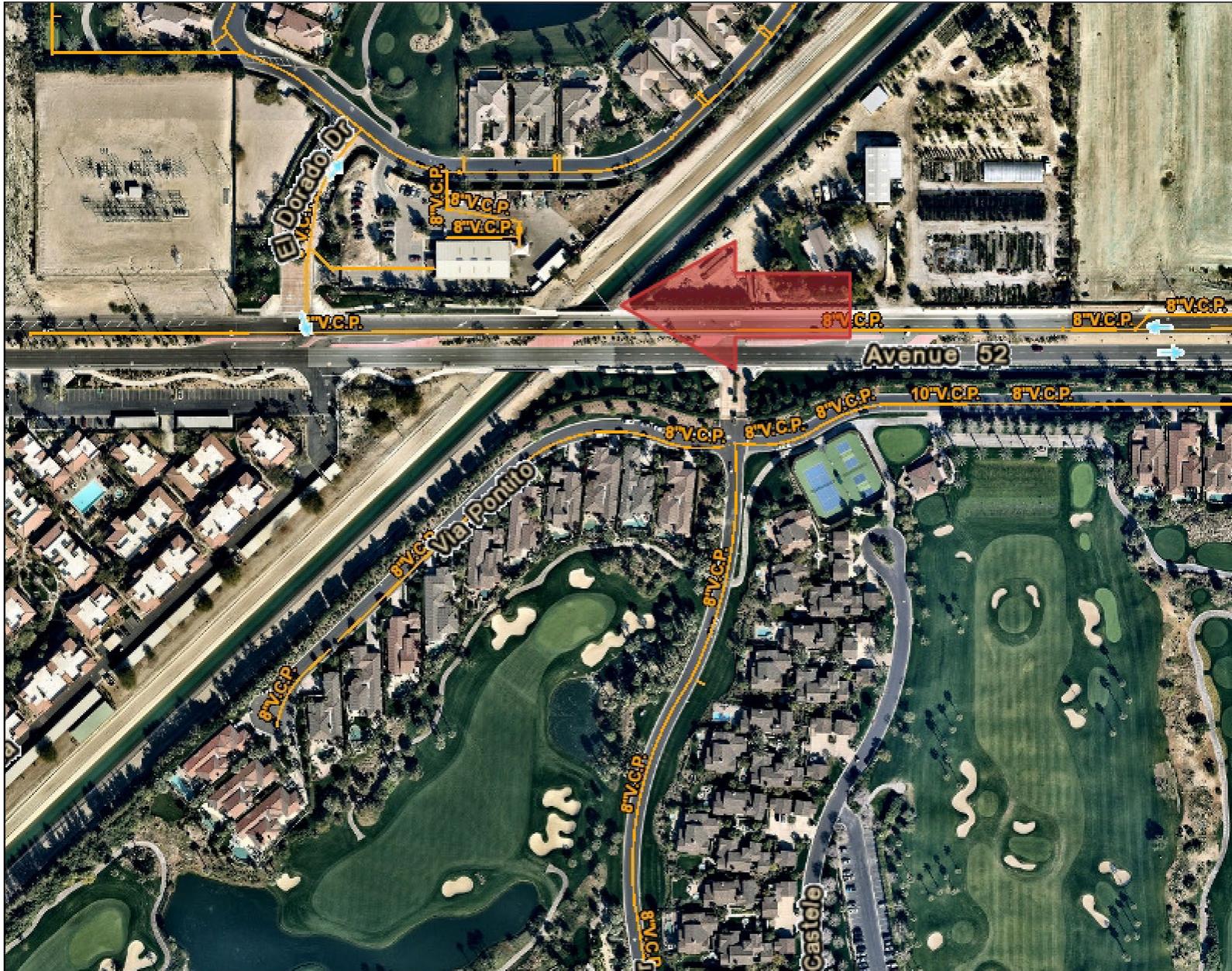


1: 1,403



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

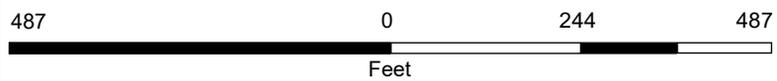
Location

Notes

8" gravity main crosses the Coachella Canal in this area. Access to canal @ Ave. 52 at the canal crossing. All equipment should be able to access this area.

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1: 2,923



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Storm Water Access Plan



Legend

- Sanitation WRPs
- Sanitation - Sewer Lines

Location



Notes

8" gravity main crosses the Coachella Canal in this area. Access to canal @ Jefferson St. at the canal crossing. All equipment should be able to access this area.

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1: 1,462



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