



## MONTHLY OPERATIONS REPORT

February 2014

Town of Discovery Bay, CA

**1644** Days of Safe Operations

**71,294** worked hours since last recordable incident

### TRAINING:

**Safety, Operations, & Equipment**

<b>Safety</b>	<b>Hours</b>
Monthly Training consists of: Escape Routes and Procedures Take 5 Safety Tailgates (15) West Region Safety Council Call Monthly Regional Safety Webinar	3.0
<b>Operations</b>	
All Operators were trained on Personal Protective Equipment, Respiratory Protection, and Solar Dryers Operations and Maintenance Kevin Agdanowski received his Grade I Water Treatment Cert	5.0

### REPORTS SUBMITTED TO REGULATORY AGENCIES

Monthly Discharge Monitoring Report (DMR) Monthly electronic State Monitoring Report (eSMR) Monthly Coliform Report, California Department of Public Health (CDPH)
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### WATER SERVICES

<b># of Active Wells</b>	<b>Water Produced (MG)</b>	<b>Chemical (Hypo) Delivered</b>	<b>Fire Hydrant Flushing</b>
5	61.05	1,135	0

*Note: Well 4 in lead and Well 5 in lag to offset specific conductivity*

### 2013 Water Production Table (MG) by Month

<b>January</b>	<b>February</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>
69.3	61.05				



July	August	September	October	November	December

**Bacteriological Test Results:**

Routine Bacteria Samples Collected	No. Total Coliform Positives	No. Fecal/E. coli Positives	Brown Water Calls
16	0	0	0

**WASTEWATER SERVICE**

**Wastewater Laboratory Analysis**

<i>WW Effluent Parameter</i>	<i>Permit Limits</i>	<i>JAN Lab Data</i>	<i>FEB Lab Data</i>
Flow, MG Effluent, <b>monthly total</b>		41.08	36.66
Flow, MG Daily Influent Flow, <b>avg.</b>	N/A	1.30	1.35
Flow, MG Daily Discharge Flow, <b>avg.</b>	2.1	1.32	1.31
Effluent BOD <sub>5</sub> , lbs/d, <b>monthly avg.</b>	350	24.0	27.0
Effluent TSS, lbs/d, <b>monthly avg.</b>	525	40.0	35.0
Effluent BOD <sub>5</sub> , mg/L, <b>monthly avg.</b>	20	2.0	2.5
Effluent TSS, mg/L, <b>monthly avg.</b>	30	3.8	3.2
Total Coli form 7 day Median Max	23	2	2
Total Coli form Daily Maximum	240	2	2
% Removal BOD <sub>5</sub> , monthly avg.	85% min.	97.8	98.3
% Removal, TSS, monthly avg.	85% min.	97.3	95.1
Electrical Conductivity, umhos/cm <b>annual avg.</b>	2100	2138 (YTD)	2138 (YTD)

Red – new parameter added

**National Pollution Discharge Elimination System (NPDES)**

<u>NPDES Related Excursions</u>	<u>Permit Parameter</u>	<u>NPDES Parameter Limit</u>	<u>Actual Parameter Result</u>
<u>1</u>	<u>Total Coliform</u>	<u>Daily Max 240MPN</u>	<u>540 MPN</u>

**Bacteriological Test Results:**

<u>Routine Bacteria Samples Collected</u>	<u>No. Total Coliform Positives</u>	<u>No. Fecal/E. coli Positives</u>	<u>7-Day Median Excursion</u>
<u>8</u>	<u>0</u>	<u>0</u>	<u>0</u>

# of Active Lift Stations	# of Inactive Lift Stations	Chemical Usage Polymer-gals	SSO	Wastewater Received (MG)
15	0	115	0	40.22

**COLLECTION:**

- Flushed **8960 ft.** of sanitary sewer lines, YTD **35,009 ft.** **53.0%** completed
- CCTV **18,200 ft.** **27.6%** completed (Deadline is May 2014)
- Inspected **33** manhole & covers. YTD **143**
- Replaced the 1/2 –inch pressure hose on the Vactor truck
- Lift station “F” pump no.1 failed, the motor and pump were bad; both are out for repair.
- Vacuumed out Plant no.2 headworks.
- Performed valve exercising
- Performed weekly lift station inspections.
- Inspected vaulted lift stations.

**MAINTENANCE**

**Wastewater**

- Fiber optic lines were run connecting both wastewater plants and with Comcast service the facilities we are no longer using an antenna for internet service.
- Parkson came out and finished the new Solar Dryers, they presented training to the staff and the dryers are now in use.
- Dennis Flosi with Cascade removed the VFD’s to the old solar dryers and replaced them with soft starts.
- Larry Welmeth and Joe Brandon replaced the Plant no.1 screening compactor with the one that had been rebuilt last year.
- Pulled the motor on Plant no.1 wasting pump no.2 and sent it out for rewind in January, the motor remained out through the month, a spare will be purchased.
- Belt filter press no.1 is locked and tagged out because the main pneumatic ram is worn and needs to be replaced.
- Larry Welmeth replaced some ballast on the UV 3000+ system.
- Chlorinated the UV 3000+ with a low chlorine dosage.
- Switched to UV 3000 to UV 3000+ on Feb 27, 2014.
- Resolved the new flow meters and SCADA flow reading discrepancy or scaling.

- Performed preventative maintenance.
- Pressure washed the clarifiers each week for algae removal.

**Water**

- We experienced some problems with the Modicon PLC at Willow WTP and Telstar troubleshot it from noon to about 10 pm, it was a bad main PLC that needs to be changed. PLC is on order.
- Replaced both backwash pumps soft starts at the Newport WTP.
- Replaced the fans on the motor control center on booster pump no.1 at Newport WTP.
- Repaired some air leaks on the Willow WTP filter system.
- Performed preventative maintenance.

**Preventive and Corrective**

Total # of WO's Completed	Total Hours
84	47

**Work Order Back-Log**

Aging 8 - 30 Days	Aging > 30 Days
130	142

**Call & Emergency Responses**

Call Outs	Emergencies
12	0

**Personnel Hours & Overtime:**

Regular Hours	Overtime
1440	58.75

**TERMS**

WWTP	WASTEWATER TREATMENT PLANT
WTP	WATER TREATMENT PLANT
WL	WILLOW LAKE
NP	NEWPORT

VFD	VARIABLE FREQUENCY DRIVE
WO	WORK ORDER
PLC	PROGRAMMABLE LOGIC CONTROLLER
L/S	LIFT STATION
SSO	SANITARY SEWER OVERFLOW
BOD	BIOLOGICAL OXYGEN DEMAND
TSS	TOTAL SUSPENDED SOLIDS
MGD	MILLION GALLONS PER DAY
mg/l	MILLIGRAMS PER LITRE
CCTV	CLOSED CIRCUIT TELEVISION
PPM	PARTS PER MILLION
RAS	RETURN ACTIVATED SLUDGE
WAS	WATSE ACTIVATED SLUDGE
UV	ULTRAVIOLET LIGHT