

STAFF REPORT

TO: SASM Commissioners
FROM: Mark Grushayev, WWT Manager
VIA: Jill Barnes, P.E., Director of Public Works/City Engineer
SUBJECT: Wastewater Treatment Plant Manager's Report
DATE: September 19, 2013

1 **ISSUE:**
2 Summary of operations and maintenance activities through August 12, 2013.
3
4 **RECOMMENDATION:**
5 Receive report.
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7 **DISCUSSION:**
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9 Compliance
10 There were no permit violations during the reporting period.
11 Staff is working on preparation of the Annual report for SSRAP (Sewer Spill Reduction
12 Action plan) that is due on October 15, 2013.
13
14 Training
15 Operation personnel were also provided two training modules: Review of Wet Weather
16 preparations and Operation of the Heat Exchanger. Laboratory also provided training on
17 Bioassay sampling.
18 Ergonomics training was provided by the City of Mill Valley to all staff on September
19 11, 2013
20
21 Safety
22 The following safety tailgates were reviewed with operations and maintenance personnel:
23 Back safety
24
25 Maintenance
26 During the reporting period: 99 preventive maintenance work orders were completed by the
27 operations and maintenance personnel.

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28 60 corrective work orders were completed by maintenance personnel;

29
30 Capital Improvement Program

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32 In addition to regular day to day operations staff is currently involved with eight CIP
33 projects that are in various stages of progress:

34
35 **Headworks Rehabilitation:** Staff is working with Carollo Engineers on pre-design report
36 This report will provide more accurate engineering estimates and options for rehabilitating
37 the headworks building and equipment and will support the adequate planning and
38 budgeting for the next phase. The report is due in second part of October, 2013.

39
40 **Digester #2 cleaning:** After completion of the cleaning phase of this project staff has
41 evaluated the structural condition of this tank and found rather minor evidence of concrete
42 deterioration and some evidence of corrosion of the metal elements of the internal structure.
43 As a next step the proposals for addressing these conditions were solicited from the qualified
44 contractors. The 3 proposals that were received are in a range of \$170,000 to \$200,000 and
45 staff is evaluating all possible alternatives.

46
47 **SCADA (Supervisory Control and Data Acquisition) Upgrade CIP** is in design stage
48 now. City has hired a consultant - Control Engineers to provide recommendations for the
49 planned upgrade of the existing control system, including the telecommunication with SD5
50 and the pump stations. Staff has received a first draft of the technical memorandum with the
51 preliminary estimates for the equipment required for the next phase of the implementation of
52 this project.

53
54 **Electrical Switchgear** and overall WWTP electrical system was evaluated and staff is
55 reviewing the draft report, received last week. The preliminary evaluation indicates the
56 need for electrical equipment upgrades. Staff will return with more information at the next
57 Board meeting.

58
59 **Trestle Glen Generator Replacement Project:** Nute Engineering has provided a
60 recommendation for the selection of a new generator and staff issued a purchase requisition
61 to procure the equipment. The consultant is finalizing the construction cost estimate and
62 final documentation for bidding.

63
64 **Effluent Pump Valves and Actuators:** This is a time-sensitive project. We are in a
65 middle of replacing all 6 effluent discharge valves to ensure the reliable operation in the
66 winter season, when all of the effluent pumps are on line, failures may result in overflows
67 and permit violations. This is a challenging project. Most of the installation is done by
68 maintenance staff with the exception of the electrical components to the valves.

69
70 **Secondary Clarifier Sweeps:** This project is designed to address the failing condition of
71 both of the secondary clarifiers driving mechanisms. The replacement cost for one
72 mechanism is currently estimated between \$120,000 and \$180,000 The projected
73 construction cost almost doubles this estimate. Staff is currently evaluating the potential of
74 replacing the most vital parts of one mechanism before this winter.

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76 **Private Lateral Replacement Program:** This is an ongoing program that requires working
77 with homeowners from all six member agencies that inquire and apply for funding (loan and
78 grants) to replace the defective laterals.
79

80 **WWTP Master Plan:** Staff is finalizing its recommendations to select a consultant to
81 develop a master plan for the plant. This Master Plan is to evaluate and address aging
82 infrastructure taking a comprehensive and thoughtful approach.
83

84 **Outfall Study:** The agreement for the joint SD5 study of deep water outfall vulnerabilities
85 and alternatives for emergencies is under review by the current SD5 staff.
86

87 Staff also received a report from Nute Engineering that evaluated the required SSRAP
88 upgrade to collection system pump stations. This report identified an over \$3M investment
89 needed to provide compliance and reliability for pump-station operations.
90

91 The regular summary update on PLRP (Private laterals replacement Program) is also
92 attached.