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**CLWA Memorandum to Board of Directors**  
**June 1, 2007**



# Castaic Lake Water Agency

## Memorandum

ITEM NO.

5.1

June 1, 2007

**To:** CLWA Board of Directors

**From:** Brian Folsom *BTF*  
Engineering and Operations Manager

**Subject:** Engineering and Operations Department Report

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### TREATMENT PLANT AND MAINTENANCE OPERATIONS

#### Completed Work:

Deliveries to the purveyors in May totaled 4,602 acre-feet (AF), for an average daily flow rate of 48.4 million gallons per day (MGD). May 2007 deliveries were 14% above May 2006 deliveries. The fiscal-year-to-date (FYTD) deliveries for FY 2006/07 are 39,243 AF, which is 10% above FYTD 2005/06. Monthly flows for 2004, 2005, 2006 and 2007 are presented in the attached table. *(FY 2006/07 Goal 2.3.6: Meet all purveyor water demands and Goal 2.3.7: Meet all applicable water quality regulations.)*

At the Rio Vista Water Treatment Plant (RVWTP), Ozonia North America completed ozone generator efficiency tests, sump pumps at the clearwell effluent tower were replaced, the plant water feed line was repaired, plant water feed pumps were returned to service and the treated water chlorine analyzer was replaced.

At the Earl Schmidt Filtration Plant (ESFP), ozone generators were cleaned and fuses were replaced. Additionally, programming for the chemical feed pumps for the washwater return prepackaged units were completed.

Distribution system maintenance activities included installation of a new flow meter at V-1 and preventative maintenance on air vacs and valve exercising.

#### Work in Progress:

At ESFP, two new chlorine feed pumps were installed which replaced two chlorine feed valves for improved efficiency and precise chlorine dosage and control system programming was completed. Based on one month of operating the new pumps, two more chlorine feed pumps will be installed. Additionally, the clarifiers at ESFP are being restored and the restoration of media level to original specifications is in progress. Staff is working with design engineers to minimize media loss and increase clarifier performance. Eighty-five tons of media has been ordered and ten screens for the clarifier troughs are being fabricated to prevent future media loss.

**Planned Actions:**

At the ESFP chlorine analyzers will be upgraded, sludge will be removed from the drying beds and an additional 2,500 gallon tank to provide additional cationic polymer storage and to replace sodium hypochlorite tanks (which are under factory warranty) will be ordered. Pumps at the intake pump station will be removed and corrective maintenance will be performed under warranty. Additionally, there will be installation of chemical feed meters for the ferric chloride, caustic soda and cationic polymer feed systems; installation of a sludge collection system in the washwater recovery basins, and installation of replacement polymer chemical feed pumps with automated flow pacing chemical feed pumps for packaged washwater recovery units at ESFP.

At the RVWTP ferric chloride pumps will be replaced; sludge will be removed from the drying beds; chlorine analyzers will be upgraded; liquid oxygen valves will be replaced with valves that allow more precise control, allowing the ozone generators to operate in automatic mode; chemical feed meters on the caustic soda and cationic polymer feed systems will be installed and new chlorinators for the chlorine gas feed system will be installed.

**PERCHLORATE CONTAMINATION PROGRAM MANAGEMENT**

*(FY 2006/07 Goal 2.1.5: Treat 2,400 gallons per minute of water from the Saugus Formation that is contaminated with perchlorate and restore to potable water service and Goal 2.1.6: Develop replacement wells for capacity lost due to perchlorate contamination.)*

**Completed Work:**

The Agency and purveyors are proceeding to restore the production capacity of the groundwater supply wells contaminated by perchlorate while working on the objectives of containing the downgradient migration of perchlorate and recovering costs incurred in responding to the perchlorate contamination.

**Work in Progress/Planned Actions:**

Work continues on multiple tasks to address the perchlorate contamination of portions of the local aquifers stemming from past manufacturing activities on the Whittaker-Bermite site.

The Agency has authorized Black & Veatch (B&V), Carollo Engineers (CE) and Kennedy/Jenks Consultants (K/J) to assist in providing services to respond to the various tasks associated with the Perchlorate Remediation Program. The following table provides a status report on the activities and tasks:

<b>Task Group</b>	<b>Tasks</b>	<b>Consultant</b>	<b>Status</b>
<b>Settlement Activities</b>	Project Description	K/J	Complete.
	Final Settlement	K/J, Nossaman	Plaintiffs and Defendants have reached a Settlement Agreement. Settlement will take effect upon approval of U.S. Bankruptcy Court.
<b>DTSC Approval Activities</b>	Remedial Investigation (RI)	K/J	DTSC approved 8/16/05.
	Feasibility Study (FS)	K/J	DTSC approved 8/16/05.
	Draft Remedial Action Plan (RAP)	K/J	DTSC approved 8/16/05.

Task Group	Tasks	Consultant	Status
DTSC Approval Activities	Final RAP	K/J	Public Hearing held 9/7/05. DTSC approved 1/20/06.
U.S. Army Corps of Engineers Feasibility Phase Study	Conceptual Hydrogeology Technical Memorandum	CH2MHill	Final distributed 1/19/05. Progress report with model construction calibration distributed 10/11/05.
U.S. Army Corps of Engineers Feasibility Phase Study	Monitoring	CH2MHill	Federal FY 2005 funding provides for limited monitoring of existing test wells and testing of NCWD NC-13 Southern Saugus well. Completed 6/14/06.
DHS Approval Activities (97-005)	Source Water Assessment	B&V, CE	Received comments on revised document from DHS 4/27/06.
	Water Quality Investigation	B&V, CE	Received comments on revised document from DHS 4/27/06.
	Source Protection Plan	B&V	Received comments on revised document from DHS 4/27/06.
	Effective Monitoring and Treatment	B&V, CE, CH2MHill	Received comments on revised document from DHS 4/27/06.
	Human Health Risk	B&V	Received comments on revised document from DHS 4/27/06.
	Alternatives Evaluation	B&V, CE	Received comments on revised document from DHS 5/10/06. Revised document will be returned to DHS with Engineer's Report.
	Engineers Report	B&V	Responded 12/19/06 to DHS comments received 12/1/06 on Final Draft submitted to DHS 10/27/06. DHS gave verbal indication that written response to 12/19/06 comments will be forthcoming shortly. Nothing in comments will impede moving forward with completing design and commencing construction.
	CEQA	B&V	Mitigated Negative Declaration certified 9/14/05.
	Permit Application	B&V	Pending design completion.
	Public Hearing	B&V	Pending design completion.
	DHS Evaluation & Permit	B&V	Pending design completion.
Implementation Activities	Easements and Right of Way	K/J	Alignment studies complete 8/08/05. Document preparation in progress.
	Treatment Design	K/J	Scheduled design completion 5/07.

Task Group	Tasks	Consultant	Status
Implementation Activities	Pipeline Design	K/J	Scheduled design completion 5/07.
	Construction	K/J	Plan to start 9/07.
	Startup and Monitoring	K/J	Scheduled 12/08.

The City of Santa Clarita's Multi-Jurisdictional Task Force and Citizens Advisory Group meeting was held on May 16, 2007. The next Multi-Jurisdictional Task Force and Citizens Advisory Group meeting will be held on September 5, 2007. The bi-monthly DTSC meeting was held on May 15, 2007.

#### FINANCIAL STATUS

Purveyors, Whittaker-Bermite and insurance carriers have reached agreed to terms of a Settlement Agreement. First payments will be made within 30 days after U.S. Bankruptcy Court approval.

#### CAPITAL IMPROVEMENT PROJECTS

##### Sand Canyon Pipeline and Reservoir

*(FY 2006/07 Goal 2.2: Construction – CLWA will build facilities which reflect the best available technology and materials, in a cost effective and timely manner and Goal 2.2.3: Complete the Sand Canyon Reservoir.)*

##### Completed Work:

At the reservoir, patching and repairs in the north and east walls are complete. The reservoir has been hydrostatically tested. Contractor has completed backfilling and restoring grade on all sides of the reservoir.

At the pump station, an initial performance test has been performed on all pumps, including vibration testing and testing of the surge system.

##### Work In Progress:

Electrical contractor continues to install conduit for Southern California Edison service and site electrical equipment. Contractor continues to present material submittals and Requests for Information (RFIs).

##### Planned Actions:

At reservoir, continue electrical work.

At the pump station, perform corrections and repairs resulting from pump test.