

**Engineering Committee  
Reporting Items**

**March 21, 2011**

1. Project Contracts, Task Orders, and Change Orders
  - a. Action items (recommendations to Board of Trustees):
    - i. none
  - b. Action items (consider acceptance by Engineering Committee):
    - i. None.
  - c. Reporting Items (approved by General Manager):
    - i. Utah Lake Pump Station design: \$6958 to Bowen Collins and Associates for additional engineering design services related to environmental issues.
2. Licensing program:
  - a. Salt Lake Aqueduct – considered appeals
    - i. A&B Adams LLC
    - ii. Warren Eyre
  - b. Discuss proposed upgrades/changes to right-of-way licensing program

# 2011 License Program Report

Last updated: March 7, 2011

## Aqueduct License Applications

Calendar Year	Applications Received	Under Review <sup>1</sup>	Denied			Legal <sup>2</sup>	Closed <sup>3</sup>	Agreement Executed	Pending @ Period End <sup>4</sup>
			GM	EC	BT				
To Feb 28, 2011	7	33	1	0	0	1	1	5	35
Oct 2006 - 2010	135						33	68	34
<b>Totals</b>	<b>142</b>						<b>34</b>	<b>73</b>	

<sup>1</sup> Includes all open applications, less those under appeal or with legal counsel

<sup>2</sup> Current appeals or with legal counsel, not cumulative.

<sup>3</sup> Application denied and/or Applicant did not pursue an appeal and/or existing improvements removed (no agreement executed or needed)

<sup>4</sup> Pending is the sum of Under Review, GM, EC, and BT Appeals, and Legal

## Brochure Mailings

	Anticipated 2011 Mailing	Notices Sent	District Contacted	Latest Staff Contact/Meeting	Council Presentation
<b>Salt Lake County</b>					
Draper City	Mar 2011	TBD	TBD	8/4/09	TBD
Sandy City	Mar 2011	TBD	TBD	8/10/09	8/25/09, 9/8/09
Comm. 21	Mar 2011	TBD	TBD	2/4/10	Open House
Cottonwood Hghts	Mar 2011	TBD	TBD	<b>2/15/11</b>	12/29/09
Holladay	Mar 2011	TBD	TBD	11/3/09	TBD
Canyon Cove HOA				11/25/09	
Jim Palmer Dist. 5				11/17/09	
SLCo.				11/12/09	
Granite Comm.	w/ Sandy		TBD	TBD	TBD
ACCT					12/10/09
Mt. Olympus	Mar 2011	TBD	TBD		1/19/10
East Millcreek	Mar 2011	TBD	TBD		2/4/10
Canyon Rim	Mar 2011	TBD	TBD		1/19/10
<b>Utah County</b>					
Orem City	Mar 2011	TBD	TBD	<b>2/22/11</b>	9/8/09
Lindon City	Mar 2011	TBD	TBD	<b>2/8/11</b>	10/20/09
Pleasant Grove	Mar 2011	TBD	TBD	<b>2/8/11</b>	<b>2/9/11</b>
Cedar Hills City	Mar 2011	TBD	TBD	<b>2/15/11</b>	TBD
Alpine City	Mar 2011	TBD	TBD	<b>2/22/11</b>	7/28/09
Highland City	Mar 2011	TBD	TBD	<b>2/8/11</b>	5/19/09
Provo City	Mar 2011	TBD	TBD	TBD	TBD
Utah County	w/ Cities			TBD	TBD
<b>Wasatch County</b>					
Wasatch County	Mar 2011	TBD	TBD	4/7/10	TBD
<b>Total</b>		<b>0</b>	<b>0</b>		

# Metropolitan Water District of Salt Lake & Sandy CAPITAL PROJECT REPORT

March 2011

Last Updated: March 9, 2011

## Capacity Improvement Projects

### Owner Controlled Insurance Program

**Project Data:**

<b>Owner Controlled Insurance:</b>	Liberty Mutual
<b>Date Program Began:</b>	October 2003
<b>Final Obligation Date:</b>	December 30, 2010
<b>Budget (FY11):</b>	\$75,000.00
<b>Invoiced FY11:</b>	\$67,571.00

**Diane Richards (GL)**

## Routine Non-Capacity Improvement Projects

### Terminal Reservoir Replacement Project – Final Design

**Project Data:**

<b>Design Engineer:</b>	Bowen, Collins & Associates
<b>Contractor:</b>	N/A
<b>Notice to Proceed:</b>	November 30, 2009
<b>Substantial Completion Date:</b>	N/A
<b>Final Completion Date (Design):</b>	June 30, 2011
<b>Estimated Project Cost:</b>	\$33,500,000.00
<b>Engineering Contract Amount:</b>	\$699,850.00
<b>Engineering Change Orders:</b>	\$9,900.00
<b>Construction Contract Amount:</b>	\$32,602,179.00 (begin FY2016)
<b>Construction Change Orders:</b>	N/A
<b>Project Total:</b>	\$33,311,929.00
<b>Percent Change Orders:</b>	0.03%

Engineer continues to make progress towards the 90% submittal scheduled for April timeframe. A benefit/cost analysis related to the timing of the construction of the project was developed and has been shared with the member cities. A progress report/presentation is planned for the 05.04.2011 Engineering Committee meeting.

### Little Cottonwood Water Treatment Plant – Site Support Heating, Ventilation, and Air Conditioning

**Project Data:**

<b>Design Engineer:</b>	Staff, Heath Engineers
<b>Contractor:</b>	n/a
<b>Notice to Proceed:</b>	n/a
<b>Substantial Completion Date:</b>	n/a
<b>Final Completion Date:</b>	TBD
<b>Estimated Project Cost:</b>	\$547,400.00
<b>Engineering Contract Amount:</b>	\$12,000.00
<b>Engineering Change Orders:</b>	\$3,000.00
<b>Construction Contract Amount:</b>	n/a
<b>Construction Change Orders:</b>	n/a
<b>Project Total:</b>	\$15,000.00
<b>Percent Change Orders:</b>	0.55%

Heath Engineers was awarded a General Services Agreement by the Board on February 28, 2011. A Task Order is to be executed and work to begin on the design and implementation of improvements for the Administration and Lab buildings.

## Salt Lake Aqueduct Improvements - Flow Meter Replacement Program

### Project Data:

<b>Design Engineer:</b>	Staff
<b>Contractor:</b>	Staff
<b>Notice to Proceed:</b>	n/a
<b>Substantial Completion Date:</b>	N/A
<b>Final Completion Date:</b>	June 30, 2011
<b>Estimated Project Cost:</b>	\$105,750.00
<b>Engineering Contract Amount:</b>	N/A
<b>Engineering Change Orders:</b>	N/A
<b>Construction Contract Amount:</b>	\$0.00
<b>Construction Change Orders:</b>	\$0.00
<b>Project Total:</b>	\$0.00
<b>Percent Change Orders:</b>	0.00%

After consultation with the Member Cities, it was determined that the revenue received does not justify the expense for these meters at this time. Staff will continue to evaluate the condition of other raw water meters and will determine their replacement schedule.

## Utah Lake Pump Station Replacement Project

### Project Data:

<b>Design Engineer:</b>	Bowen, Collins & Associates
<b>Contractor:</b>	n/a
<b>Notice to Proceed:</b>	n/a
<b>Substantial Completion Date:</b>	n/a
<b>Final Completion Date:</b>	October 2012 - expected
<b>Estimated Project Cost:</b>	\$8.5 million (unconfirmed)
<b>Engineering Contract Amount:</b>	\$879,746.00
<b>Engineering Change Orders:</b>	\$6,958
<b>Construction Contract Amount:</b>	n/a
<b>Construction Change Orders:</b>	n/a
<b>Project Total:</b>	\$886,704.00
<b>Percent Change Orders:</b>	0.008%

Early discussions have identified the June sucker as an endangered species that will probably have an impact on the project. An Additional Services Request for \$6,958 was authorized by the Board of Canal Presidents to prepare a Technical Memorandum for the USFW on fish screen technology for this project and to evaluate mitigation alternatives. Engineer is expected to receive the "Go Ahead" for Final Design by March 16, 2011.

## Little Dell Dam – Capital Improvements

Salt Lake City Public Utilities continues to develop an asset management plan for this facility.

The following Capital Improvements were requested by Salt Lake City Department of Public Utilities for FY2011:

- **New Adit Ventilator** - \$10,000. The new adit ventilator has been installed.
- **Crack-seal and Seal the Access Roads** - \$21,000 Crack Repair, \$70,000 Slurry Seal. Work scheduled for spring 2011.
- **Upgrade Instrumentation System** - \$99,000. An Engineer is to be procured to help identify the required upgrades.

**Total Budget FY2011: \$200,000**

## Other Capital Projects

### Jordan Aqueduct System and 150<sup>th</sup> South Pipeline – Capital Projects

The following Capital Improvements were approved by Jordan Aqueduct System management committee for FY2011 for the Jordan Aqueduct System:

- **Jordan Valley Water Treatment Plant Chlorine Dioxide Project** – Project was awarded to Nelson Brothers. A preconstruction meeting was held November 8, 2010. Contractor has mobilized and has begun demolition work. This project will have a "testing" phase or a "Pre-Compliance Sampling period" around February 2012 to March 2012. Final completion anticipated by March 2012.
- **Jordan Valley Water Treatment Plant Filter and Chemical Building Seismic Upgrade** – Project is 99% complete.

- Jordan Aqueduct Chlorine Booster Station – Project is scheduled to go out for bid this Spring. Improvements expected to be complete by the following Spring (2012). The plan is to bring this project on-line on or before the Chlorine Dioxide Project.
- Jordan Aqueduct – Reach 2 pig launch modifications. – Design complete as part of the Southwest Aqueduct project. Construction contract awarded to Allied Construction. Work to be complete by June 2011.
- Jordan Valley Water Treatment Plant generator replacement. – Project was returned to this year’s Capital Projects List.
- Normal Capital Improvements at Jordan Valley Water Treatment Plant, Jordan Aqueduct, and Jordan Aqueduct Terminal Reservoir. – Nothing to report
- A new capital expense has been identified for this fiscal year. As a betterment to the UDOT Mountain View Corridor (MVC) project, a new access into the JWTP from the MVC is requested. MWDSL portion of cost is estimated at \$30,857.00.

**Total Request FY2011: \$1,678,447**

**Revised Mid-Year Estimate FY2011: \$700,000**

### **Provo River Project – Provo Reservoir Canal Enclosure**

The Provo River Water Users Association (PRWUA) has contracted with Ames construction for the project. As of February 26, 2011 - Northwest pipe has successfully manufactured (rolled, hydro tested, and approved for surface prep) 32,680 feet of 126-inch diameter welded steel pipe (approximately 32% of the project total). Polyurethane lining and coating of the previously rolled pipe has begun with approximately 29,800 feet lined and coated (approximately 29.2%). Work has begun with installing the large diameter pipe with approximately 10,822 feet installed (10.6%) and 6,740 feet backfilled. Welding of joints has begun this month. Contract time elapsed to date (as of Dec. 10, 2010) is 26.5%. Recent communications with the project team indicate the contractor is behind schedule.