

Metropolitan Water District of Salt Lake & Sandy
Board Packet Information
Last Update: February 17, 2010

Agenda Item: Consider approval of General Services Agreement(s) for surveying services

Objective: To obtain additional surveying services with General Services Agreement(s) (GSA's).

Background: Per Policy & Procedures Chapter 6, Part 7, Section 6-701 - POLICY REGARDING PROFESSIONAL SERVICES, Staff have recommended to the Chief Procurement Officer the approach of Selecting General Service Agreements, which agreements would begin March 1, 2010, for title surveying service.

Engineering staff has been working to confirm ownership and boundaries of tracts within the Salt Lake Aqueduct (SLA) corridor. Two surveyors were selected and awarded GSA contracts in August of 2009. Prior to award, it was expected that each survey assignment would take three to four weeks to complete. The complex and long history of these tracts has shown surveys to take substantially longer, exceeding eight weeks in some cases. The current surveyor GSA's have not been able to make as much progress as the workload requires. Staff feels that additional surveying support is warranted.

Advertisement for the Title Survey GSA ran in local newspapers on Jan 10th and 13th 2010 and was available on the District's website from Jan 4th to Jan 27th. Fifteen (15) Statements of Qualification (SOQ) were received.

Engineering Staff met on February 4, 2010. Each staff member identified their top five or six candidates. The top two (2) listed firms were:

- Stanley Consultants,
- Project Engineer Consultants (PEC).

Recommendation: Staff recommends to award GSA's to Stanley Consultants and Project Engineer Consultants (PEC) to facilitate survey of the SLA corridor. Expiration date of these GSA's to coincide with the existing surveying GSA's; that being June 30, 2011.

Metropolitan Water District of Salt Lake & Sandy
Board Packet Information
Last Update: February 17, 2010

Agenda Item: Consider approval of changes to chapter 16 of the District's Policies and Procedures

Objective: Present to the Board of Trustees information related to:

- Salt Lake Aqueduct Tree and Vegetation Analysis
- Suggested changes to P&P Chapter 16-7 (5) Trees and Vines

Background: Bowen, Collins & Associates was contracted to perform a tree and vegetation analysis within 20-feet of the Salt Lake Aqueduct (SLA), either side, for the entire SLA corridor. The following conclusions were provided: Trees restrict access and roots may be a concern where the SLA is shallow (< 5 feet). The report recommended that: The SLA be monitored from within for roots where the aqueduct is shallow, remove existing trees within 20-feet of the SLA centerline, remove all saplings and continue inspections of the pipeline and remove any new growth that develops.

Based on the findings of the Tree and Vegetation analysis, staff recommends the following changes to Policy and Procedure (P&P) Chapter 16-7 (5) (Changes shown in "red"):

(5) Trees and Vines

(a) No new trees or vines will be allowed within District rights of way. Existing trees within 20 feet of centerline of District pipelines or on access paths and roads used by District are not allowed. Existing trees outside 20 feet of centerline of District pipelines or on access paths and roads used by District may remain until removal is required for safe operation or replacement of the pipeline or access paths and roads.

(b) All vegetation within District rights of way is subject to removal by District as required to maintain or replace pipe or structures. Except as otherwise expressly agreed in writing by the District, replacement of vegetation shall be the responsibility of the Grantee and its successors.

Recommendation: Recommend approval of changes to current P&P 16-7 (5) policy.

**Engineering Committee
Reporting Items
February 22, 2010**

1. Project Contracts, Task Orders, and Change Orders
 - a. Accepted by the Engineering Committee:
 - i. None.
 - b. Approved by the General Manager and reported to the Engineering Committee:
 - i. Salt Lake Aqueduct Corner Canyon Erosion Mitigation Project: \$1,197.00 to Wardell Brothers Construction for 420 square yards of additional erosion control matting (Change Order #1).
 - ii. Salt Lake Aqueduct Corner Canyon Erosion Mitigation Project: \$4,250.00 to Wardell Brothers Construction for additional channel improvements upstream of culvert at Owner's request (Change Order #2).
2. Discussed FY 2011 Capital Budget Proposal
3. Discussed procurement of professional services for the design and construction of the Utah Lake (Saratoga) Pump Station project.
4. Discuss Salt Lake Aqueduct Tree Survey and Vegetation Analysis report.
5. Discussed status of Provo Reservoir Canal Enclosure Project
6. Project Reports:
 - a. Licensing Program Report
 - b. Capital Project Report

Metropolitan Water District of Salt Lake & Sandy CAPITAL PROJECT REPORT

February 2010

Last Updated: February 10, 2010

Capacity Improvement Projects

Owner Controlled Insurance Program

Project Data:

Owner Controlled Insurance:	Liberty Mutual
Date Program Began:	October 2003
Final Obligation Date:	December 30, 2010
Budget (FY10):	\$200,000.00
Invoiced FY10:	\$6,243.91

Wendell McWhorter (WC) District awaiting invoice for \$97,017.00.

Diane Richards (GL) Claimant has filed papers with local court system.

Ken Covert (WC) No progress to report

Non-Capacity Improvement Projects

Terminal Reservoir Replacement Project – Final Design

Project Data:

Design Engineer:	Bowen, Collins & Associates
Contractor:	N/A
Notice to Proceed:	November 30, 2009
Substantial Completion Date:	N/A
Final Completion Date (Design):	June 30, 2011
Estimated Project Cost:	\$33,500,000.00
Engineering Contract Amount:	\$699,850.00
Engineering Change Orders:	\$0.00
Construction Contract Amount:	\$32,602,179.00 (begin 2015)
Construction Change Orders:	N/A
Project Total:	\$33,302,029.00
Percent Change Orders:	0.00%

Consultant prepared DRAFT Project Management Plan (PMP). Schedule is for design to be completed by June 30, 2011. Kick off meeting for stakeholders scheduled for February 18, 2010 at 2:00 p.m. at MWDSL Board room. Prestressed concrete tank manufacturer – DuraStor gave a presentation on their product February 4, 2010.

Little Cottonwood Water Treatment Plant – Filter Aid Polymer System

Project Data:

Design Engineer:	Bowen, Collins & Associates
Contractor:	Hills Construction, Inc.
Notice to Proceed:	January 14, 2010
Substantial Completion Date:	April 15, 2010
Final Completion Date:	April 30, 2010
Estimated Project Cost:	\$575,000.00
Engineering Contract Amount:	\$127,634.00
Engineering Change Orders:	\$0.00
Construction Contract Amount:	\$343,690.00
Construction Change Orders:	\$0.00
Project Total:	\$471,324.00
Percent Change Orders:	0.00%

The Little Cottonwood Water Treatment Plant Filter Aid Polymer project is moving forward. Submittals are on-going. Existing floor has been removed, trenches have been dug for drains, conduits and sump area. Concrete work is scheduled to commence the week of February 15th. Mechanical header pipe is being constructed off-site. Schedule for completion has moved to June due to change conditions with plant operations. Unanticipated (increased) demands for water prevent having more filters taken off-line at a time which slows Contractor's

progress. Contractor indicates that this change condition only effects schedule and not costs of project.

Little Cottonwood Water Treatment Plant – Drain Separation Project

Project Data:

Design Engineer:	Bowen, Collins & Associates
Contractor:	N/A
Notice to Proceed:	Anticipate January 11, 2010
Substantial Completion Date:	N/A
Final Completion Date:	June 30, 2010
Estimated Project Cost:	\$100,000.00
Engineering Contract Amount:	\$7,500.00
Engineering Change Orders:	\$0.00
Construction Contract Amount:	N/A
Construction Change Orders:	N/A
Project Total:	\$7,500.00
Percent Change Orders:	0.00%

Bowen, Collins & Associates is to be assigned this project to help District staff determine the best course of action in eliminating a potential cross-connection at the Little Cottonwood Water Treatment Plant effluent/overflow structure. BC&A's previous experience with the Little Cottonwood Water Treatment Plant drain separation project made them a good fit for this task. Staff prepared to collect survey elevation data to support project evaluation.

Salt Lake Aqueduct Improvements

- **Cathodic Protection**

Project Data:

Design Engineer:	Corrosion Control Technologies
Contractor:	Mike Zimmerman, Well Service
Notice to Proceed:	March 2, 2009
Substantial Completion Date:	July 28, 2009
Final Completion Date:	January 30, 2010
Estimated Project Cost:	\$600,000.00
Engineering Contract Amount:	\$60,720.00
Engineering Change Orders:	\$0.00
Construction Contract Amount:	\$466,465.71
Construction Change Orders:	\$16,318.90
Project Total:	\$543,504.61
Percent Change Orders:	3.5%

Power service has been installed to all six rectifiers. Startup, energizing and testing is on-going. Conflict has arose with cathodic interference with Questar Gas infrastructure. Staff working to identify extent of issue and propose solutions

- **Coyote Hollow**

Project Data:

Design Engineer:	Bowen Collins & Associates
Contractor:	Wardell Brothers
Notice to Proceed:	December 17, 2009
Substantial Completion Date:	February 15, 2010
Final Completion Date:	April 1, 2010
Estimated Project Cost:	\$100,000.00
Engineering Contract Amount:	\$18,663.00
Engineering Change Orders:	\$0.00
Construction Contract Amount:	\$63,918.00
Construction Change Orders:	\$5,447.00
Project Total:	\$88,028.00
Percent Change Orders:	8.5%

Project has achieved Final Completion. All work and punch items are complete. The drainage channel is stabilized and ready for Spring run-off.

Change orders (2 total) include Owner directed additional work to maximize use of purchased materials and for additional erosion fabric that was required for side slope erosion protection.

Encroachment Program Report

Last updated: February 17, 2010

Aqueduct Encroachment Applications

Calendar Year	Applications Received	Agreements Executed	Applications Denied/Withdrawn	Pending @ Period End
Thru Feb. 8 th 2010	5	5	7	26
2009	22	14	4	33
2008	24	12	0	29
2007/06	31	8	6	17
Totals	82	39	17	

Brochure Mailings

	Mailing	Notices Sent	District Contacted	Staff Contact/Meeting	Council Presentation
Salt Lake County					
Draper City	12/03/09	35	0	08/04/09	TBD 08/25/09 &
Sandy City	11/10/09	196	3	08/10/09	09/08/09
Comm. 21	01/12/10	46	19	02/04/10	Open House
Cottonwood					
Heights	01/11/10	130	3	05/19/09	12/29/09
Holladay	12/17/09	60	0	11/03/09	TBD
Canyon Cove HOA	n/a	n/a	n/a	11/25/09	
Jim Palmer Dist. 5	n/a	n/a	n/a	11/17/09	
SLCo.	n/a	n/a	n/a	11/12/09	
Granite Comm. Assoc. of Comm. Councils Together	11/10/09	w/Sandy	0	TBD	TBD
Mt. Olympus	02/15/10	300+		12/10/09	01/19/10
East Millcreek	02/15/10	w/Mt. Olympus		12/10/09	02/04/10
Canyon Rim	02/03/10	27		12/10/09	01/19/10
Utah County					
Orem City	10/29/09	36	0	08/17/09	09/08/09
Lindon City	11/03/09	48	0	08/13/09	10/20/09
Pleasant Grove	10/06/09	69	4	07/14/09	08/11/09
Cedar Hills City	11/19/09	100	1	09/09/09	TBD
Alpine City	09/08/09	43	1	07/06/09	07/28/09
Highland City	09/23/09	54	0	04/21/09	05/19/09
Provo City	n/a	n/a	n/a	TBD	TBD
Utah County	w/ Cities			TBD	TBD
Wasatch County					
Wasatch County	02/24/10	40 est		12/01/09	TBD
Total		1138	12		