ATTACHMENT 4. BUDGET

Att4_IG2_Budget_1of3

WISCONSIN AVENUE PUMP STATION COST ESTIMATE

Table 8 presents a summary of the Opinion of Probable Costs for the Wisconsin Pump Station Replacement Project, based on the current 30% design drawings. The estimate includes a 20% contingency to account for unforeseen costs. These estimated costs are presented in 2012 dollars.

These costs are aggregated in "DWR Table 5" format in Table 9.

SEWD FLOOD DETENTION AND GROUNDWATER RECHARGE FACILITY COST ESTIMATE

A summary of the Opinion of Probable Costs for the SEWD Flood Detention and Groundwater Recharge Facility, based on the current preliminary design drawings is presented in Table 10, Table 11, and Table 12.

These costs are aggregated in "DWR Table 5" format in Table 13. SEWD will be acquiring its local funding through its M&I Fund #94. A Second Amended Contract between SEWD and its urban contractors (City of Stockton, California Water Service Company, and San Joaquin County) requires the urban contractors to make monthly payments to the SEWD in the amounts necessary to cover SEWD's cost of providing their treated drinking water, including among other usual M&I costs, the cost of constructing and operating a groundwater bank, should an Agreement be reached to authorize such a project. The urban contractors intend to enter such an Agreement following the completion of a project feasibility study; scheduled to be complete in 2013.

SUMMARY BUDGET

A summary budget for all projects in the proposal is presented in "DWR Table 6" format in Table 14.

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Table 8 - Opinion of Probable Costs, Wisconsin Pump Station

RECLAMATION DISTRICT NO. 1614 - SMITH TRACT
WISCONSIN PUMP STATION
STOCKTON, CALIFORNIA
KSN PROJECT NO. 0806-0410
CIVIL / MECHANICAL / ELECTRICAL IMPROVEMENTS
Opinion of Probable Costs

Task	Description	Total Cost	Cost Paid to Date	Cost Remaining	% Complete
(a): Direct Project Administration Costs					
1.	Administration	$37,900	$14,833	$23,067	39%
2.	Labor Compliance Program	$3,500	$0	$3,500	0%
3.	Reporting	$10,000	$0	$10,000	0%
		$51,400	**$14,833**	**$36,567**	**29%**
(c): Planning / Design / Engineering / Environmental Documentation					
4.1	Surveying & Mapping	$16,000	$15,343	$657	96%
4.2	Utility Research	$1,700	$1,687	$13	99%
4.3	Geotechnical Investigation	$8,000	$0	$8,000	0%
5.1	Improvement Plans, 30%	$14,000	$14,040	-$40	100%
5.2	Improvement Plans & Specs, 100%	$80,000	$0	$80,000	0%
6.	Environmental Documentation	$15,000	$16,678	-$1,678	111%
7.	Permitting	$10,000	$0	$10,000	0%
8.	Construction Contracting	$8,000	$0	$8,000	0%
		$152,700	**$47,748**	**$104,952**	**31%**
(d): Construction / Implementation					
9.	Construction	$1,593,700	$0	$1,593,700	0%
		$1,593,700	**$0**	**$1,593,700**	**0%**
(e): Environmental Compliance / Mitigation / Enhancement					
10.	Environmental Complaince / Mitigation / Enhancement	$0	$0	$0	0%
		$0	**$0**	**$0**	**0%**
(f): Construction Administration					
11.1	Construction Management & Inspection	$124,000	$0	$124,000	0%
11.2	Geotechnical & Materials Testing	$39,900	$0	$39,900	0%
		$163,900	**$0**	**$163,900**	**0%**
(h): Construction / Implementation Contingency					
12.	20% Contingency	$392,400	$0	$392,400	0%
		$392,400	**$0**	**$392,400**	**0%**
	Subtotals (matches previous budget):	***$2,354,100***	***$62,581***	***$2,291,519***	***3%***
Project Financing					
1.	Prop 1E Stormwater Flood Management Grant	$13,600	$7,424	$6,176	55%
2.	Prop 218 Assessment District	$60,600	$21,200	$39,400	35%
		$74,200	**$28,624**	**$45,576**	**39%**
	Totals:	**$2,428,300**	**$91,205**	**$2,337,095**	**4%**

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Table 9 - Project Budget, Wisconsin Avenue Pump Station Replacement (DWR Table 7)

DWR Table 7 – Project Budget					
	Proposal Title:	Calaveras River Integrated Water Management Project			
	Project Title:	RD1614 Wisconsin Avenue Pumping Station Replacement			
Budget Category		(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Source*	(d) Total Cost
(a)	Direct Project Administration Costs	$28,000	$28,000	$0	$56,000
(b)	Land Purchase/Easement	$0	$0	$0	$0
(c)	Planning/Design/Engineering/ Environmental Documentation	$83,350	$83,350	$0	$166,700
(d)	Construction/Implementation	$721,500	$1,017,100	$0	$1,738,600
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$0	$0	$0
(f)	Construction Administration	$89,400	$89,400	$0	$178,800
(g)	Other Costs	$0	$74,200	$0	$74,200
(h)	Construction/Implementation Contingency	$0	$214,000	$0	$214,000
(i)	Grand Total (Sum rows (a) through (h) for each column)	$922,250	$1,506,050	$0	$2,428,300

***Sources of funding: In-kind services $136,781; Property tax revenue from Proposition 218 election $1,369,269; Proposition 84 grant $922,250**

Table 10 - Opinion of Probable Costs, SEWD Flood Detention Elements

FARMINGTON GROUNDWATER RECHARGE PROGRAM
NORTH SITE BUDGETARY ESTIMATE

Estimate: #5 | Estimator: AL | Date: 11/18/11

Job: NORTH SITE PROJECT | Checked by: KMK | Date: 11/23/11

Address: APN: 101-050-02, 101-040-22, 23, 101-170-34, 33, 35, 101-010-27,26,25,24

sewd

Job Description: Recharge ponds | Revised Estimate

Item or Description	Qty	Unit	Material Unit	Material Ext	Manhours MH/Unit	Manhours MH Ext	Labor MH	Labor Ext	Equipment Unit	Equipment Ext	Subcontract Unit	Subcontract Ext	Total Cost
Mobilization													
Move equipment in and out	1	LS									$30,000	$30,000.00	$30,000.00
Survey (Establish BM & Boundary)	1	LS									$10,000	$10,000.00	$10,000.00
Sub-Total													*$40,000.00*
Clearing and Grubbing													
Clearing and Grubbing	245	Acre									$100.00	$24,500	$24,500.00
Bozzanos Road remove /reuse to top of bank roads 500-CY	1	LS									$20,000	$20,000	$20,000.00
Fence removal/salvage	1	LS									$5,500	$5,500	$5,500.00
Dismantle Packing shed	1	LS									$10,000	$10,000	$10,000.00
R/R Existing gravel Remove and Salvage 400-CY/ use as roads	5200	LF									$5.00	$20,000	$20,000.00
Sub-Total													*$80,000.00*
Pipeline Installation													
48" RCP	2100	LF									$ 200	$420,000	$420,000.00
24" RCP	1400	LF									$ 100	$140,000	$140,000.00
Sub-Total													*$560,000.00*
Pipe Connections													
60" to 48" w/48" BFV	1	EA									$40,000	$40,000.00	$40,000.00
48" to 24" w/24" BFV	5	EA									$10,000	$50,000.00	$50,000.00
Access Manholes	2	EA									$10,000	$20,000.00	$20,000.00
Sub-Total													*$110,000.00*
Earth Work													
Rip Ground 4' depth in 5 ponds	140	Acre									$600.00	$ 84,000.00	$84,000.00
24' Crown interior Bank Const.	10150	LF									$140.00	$ 1,421,000.00	$1,421,000.00
24' Crown exterior Bank Const.	14200	LF									$150.00	$ 2,130,000.00	$2,130,000.00
Access Ramps	12	EA									$2,500.0	$ 30,000.00	$30,000.00
Finish Grade Inside Banks	32000	SY									$2.00	$ 64,000.00	$64,000.00
Finish Grade Outside Banks	22700	SY									$2.00	$ 45,400.00	$45,400.00
Cutting 1-FT of Cell N5 & N7	59	Acres									$3,500.0	$ 206,500.00	$206,500.00
Percolation trenches	19000	LF									$20.00	$ 380,000.00	$380,000.00
Crushed Rock for Road, Ramps, and Slopes	23500	Tons									$35.00	$ 822,500.00	$822,500.00
Bank Erosion Protection (2-banks/pond)	6500	Tons									$45.00	$ 292,500.00	$292,500.00
wtp residual bank barrier (sand)	2800	LF									$42.00	$ 117,600.00	$117,600.00
Sub-Total													*$5,593,500.00*
Miscellaneous													
Security Fencing	12000	LF									$ 45.00	$ 540,000.00	$540,000.00
Security System	1	LS									$ 50,000	$ 50,000.00	$50,000.00
Misc. Measurement Equip	1	LS									$ 40,000	$ 40,000.00	$40,000.00
Sub-Total													*$630,000*
Contractor													
Contingencies 10%	1	LS											*$418,410*
Overhead & Profit 10%	1	LS											*$739,191*

Total Direct Costs this sheet	Total Material + Tax	Total Manhours	Total Labor	Total Equipment	Total Subcontractor	Grand Total
						$8,171,101

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Table 11 - Opinion of Probable Costs, SEWD Groundwater Extraction Elements

NORTH SITE PROJECT - WELL NETWORK INSTALLATION COST ESTIMATE
(GROUNDWATER RECHARGE BANKING SYSTEM)

GROUNDWATER BANKING SYSTEM COSTS

CONSTRUCTION COSTS	Units	No. of Units	Cost/Unit	Total Cost
New Wells at SEWD & North Site (3,000 gpm, 625 ft deep)	each	7	$300,000	$2,100,000
Pumps for New Wells (3,000 gpm - 400 hp ea)	each	7	$101,000	$707,000
Rehabilitate Existing Wells	each	4	$10,000	$40,000
New Pumps for Rehabilitated Wells (1,200 gpm - 150 hp ea)	each	4	$35,000	$140,000
18 in Pipeline from Wells to WTP Facilities	Feet	2500	$85	$212,500
24 in Pipeline from Wells to WTP Facilities	Feet	900	$125	$112,500
30 in Pipeline from Wells to WTP Facilities	Feet	1100	$160	$176,000
Piping Tie-ins, valving & appurtenances	l.s.	1	$75,000	$75,000
New Electrical Service for Pumps	each	7	$65,000	$455,000
Professional Services (10% of construction cost)	l.s.	1	$401,800	$401,800
Total Construction Cost				**$4,419,800**

Table 12 - Opinion of Probable Costs, SEWD Operations and Maintenance Costs

NORTH SITE PROJECT - OPERATION & MAINTENANCE COST ESTIMATE
(GROUNDWATER RECHARGE BANKING SYSTEM)

GROUNDWATER RECHARGE SYSTEM COSTS

Recharge System Parameters	Unit
Pond Acreage	180
Pond & Pipeline Initial Construction Cost	$8,171,000
Annual O&M cost as percentage of Construction Cost	1.50%
Cost of Water per Acre Foot (2011 Ag Rate)	$28.79
Number of years recharging to occur in 8 year cycle	5
Minimum Recharge Rate per Wet Year to Recharge	26,500

Calculated Values

Summary of O&M Costs

Groundwater Recharge System Operation & Maintenance	Cost/Ac/Yr	No. Acres	Annual Total	No. Yrs in 8 Year Cycle	Total 8 Year Cost
Annual Percolation Pond O&M costs	$ 680.92	180	**$122,566**	8	**$980,525**

Water Purchase Costs	Ave Recharge wet Years (Ac-ft)	$/Ac-Ft	Annual Total	No. of Yrs in 8 Year Cycle	Total 8 Year Cost
Water Cost USBR Ag Rate w/ 20% increase over 2011 rate (includes purchase of additional 10% for evap. & conveyance loss)	29,150	$34.55	**$1,007,133**	5	**$5,035,663**

8 Year O&M Cost Recharge System	**$6,016,187**
+ Cost of Water	
Total Ac-Ft Recharged in 8 Yr Cycle	**132,500**
Cost Per Acre-Ft Recharged	**$45.41**

Table 13 - Project Budget, SEWD Flood Detention and Groundwater Recharge Facility (DWR Table 7)

DWR Table 7 – Project Budget					
		Proposal Title:	Calaveras River Integrated Water Management Project		
		Project Title:	SEWD Flood Detention and Groundwater Recharge Facility		
Budget Category		(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Source*	(d) Total Cost
(a)	Direct Project Administration Costs	$0	$125,000	$0	$125,000
(b)	Land Purchase/Easement	$2,550,000	$2,550,000	$0	$5,100,000
(c)	Planning/Design/Engineering/ Environmental Documentation	$0	$637,000	$0	$637,000
(d)	Construction/Implementation	$4,585,350	$7,185,350	$0	$11,770,700
(e)	Environmental Compliance/ Mitigation/Enhancement	$37,500	$37,500	$0	$75,000
(f)	Construction Administration	$200,900	$200,900	$0	$401,800
(g)	Other Costs	$0	$18,900	$0	$18,900
(h)	Construction/Implementation Contingency	$0	$418,400	$0	$418,400
(i)	Grand Total (Sum rows (a) through (h) for each column)	$7,373,750	$11,173,050	$0	$18,546,800
*Sources of funding: Board-authorized local expenditures $355,900; SEWD M&I Fund #94 $10,317,150; In-kind contributions$500,000; Proposition 84 grant $7,373,750					

Table 14 - Summary Budget (DWR Table 8)

DWR Table 8 – Summary Budget						
		Proposal Title:	Calaveras River Integrated Water Management Project			
Individual Project Title		(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Source*	(d) Total Cost	(e) % Funding Match
(a)	RD1614 Wisconsin Avenue Pumping Station Replacement	$922,250	$1,506,050	$0	$2,428,300	62%
(b)	SEWD Flood Detention and Groundwater Recharge Facility	$7,373,750	$11,173,050	$0	$18,546,800	60%
(c)	Project C					
(d)	Project D					
(e)	Project E					
(f)	Project F					
(g)	Project G					
(h)	Project H (add more rows for additional projects as necessary)					
(i)	Grand Total (Sum rows (a) through (h) for each column)	$8,296,000	$12,679,100	$0	$20,975,100	60%