

ATTACHMENT 4. BUDGET

Att4_SWF_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.

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 | \$18,000 | \$15,343 | \$657 | 98% |
| 4.2 | Utility Research | \$1,700 | \$1,887 | \$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 Compliance / 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 | \$13,800 | \$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% |



Table 9 - Project Budget, Wisconsin Avenue Pump Station Replacement (DWR Table 5)

| DWR Table 5 – Project Budget | | | | | | |
|---|---|--|-----------------------------------|--|--------------|------------------------|
| Proposal Title: Calaveras River Integrated Stormwater Management Project | | | | | | |
| Project Title: RD1614 Wisconsin Avenue Pumping Station Replacement | | | | | | |
| Budget Category | | (a) Non-State Share* (Funding Match) | (b) Requested Grant Funding | (c) Other State Funds Being Used | (d) Total | (e) % Funding Match |
| (a) | Direct Project Administration Costs | \$40,533 | \$10,867 | \$0 | \$51,400 | 79% |
| (b) | Land Purchase/Easement | \$0 | \$0 | \$0 | \$0 | 0% |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$124,098 | \$28,602 | \$0 | \$152,700 | 81% |
| (d) | Construction/Implementation | \$796,850 | \$796,850 | \$0 | \$1,593,700 | 50% |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$0 | \$0 | \$0 | \$0 | 0% |
| (f) | Construction Administration | \$81,950 | \$81,950 | \$0 | \$163,900 | 50% |
| (g) | Other Costs | \$74,200 | \$0 | \$0 | \$74,200 | 100% |
| (h) | Construction/Implementation Contingency | \$392,400 | \$0 | \$0 | \$392,400 | 100% |
| (i) | Grand Total (Sum rows (a) through (h) for each column) | \$1,510,031 | \$918,269 | \$0 | \$2,428,300 | 62% |

***Sources of funding: In-kind services \$136,781; Property tax revenue from Proposition 218 election \$1,373,250; Proposition 1E grant \$918,269**



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 EM & 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 | \$24,500.00 | \$24,500.00 |
| Bozanos Flood remove /reuse to top of bank roads 500-CY | 1 | LS | | | | | | | | | \$20,000 | \$20,000.00 | \$20,000.00 |
| Fence removal/salvage | 1 | LS | | | | | | | | | \$5,500 | \$5,500.00 | \$5,500.00 |
| Dismantle Packing shed | 1 | LS | | | | | | | | | \$10,000 | \$10,000.00 | \$10,000.00 |
| R/R Existing gravel Remove and Salvage 400-CY use as roads | 5200 | LF | | | | | | | | | \$5.00 | \$20,000.00 | \$20,000.00 |
| Sub-Total: | | | | | | | | | | | | \$80,000.00 | |
| Pipeline Installation | | | | | | | | | | | | | |
| 48" RCP | 2100 | LF | | | | | | | | | \$ 200 | \$420,000.00 | \$420,000.00 |
| 24" RCP | 1400 | LF | | | | | | | | | \$ 100 | \$140,000.00 | \$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 | | | | | | | | | | | | | |
| Exp. 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 Flamps | 12 | EA | | | | | | | | | \$2,500.00 | \$ 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 Coll N5 & N7 | 59 | Acres | | | | | | | | | \$3,500.00 | \$ 206,500.00 | \$206,500.00 |
| Percolation trenches | 19000 | LF | | | | | | | | | \$20.00 | \$ 380,000.00 | \$380,000.00 |
| Crushed Rock for Road, Flamps, 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 |
| w/p 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: | | | | | | | | | | | | \$630,000.00 | |
| Contractor | | | | | | | | | | | | | |
| Contingencies 10% | 1 | LS | | | | | | | | | | | \$418,410 |
| Overhead & Profit 10% | 1 | LS | | | | | | | | | | | \$739,191 |
| Total Direct Costs this sheet | | | | | | | | | | | | \$8,171,101 | |
| | | | Total Material + Tax | | Total Manhours | | Total Labor | | Total Equipment | | Total Subcontractor | | Grand Total |
| | | | | | | | | | | | | | 1 of 1 |



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 5)

| DWR Table 5 – Project Budget | | | | | | |
|---|---|--|-----------------------------------|--|--------------|------------------------|
| Proposal Title: Calaveras River Integrated Stormwater Management Project | | | | | | |
| Project Title: SEWD Flood Detention and Groundwater Recharge Facility | | | | | | |
| Budget Category | | (a) Non-State Share* (Funding Match) | (b) Requested Grant Funding | (c) Other State Funds Being Used | (d) Total | (e) % Funding Match |
| (a) | Direct Project Administration Costs | \$18,900 | \$0 | \$0 | \$18,900 | 100% |
| (b) | Land Purchase/Easement | \$2,550,000 | \$2,550,000 | \$0 | \$5,100,000 | 50% |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$337,000 | \$0 | \$0 | \$337,000 | 100% |
| (d) | Construction/Implementation | \$5,885,346 | \$5,885,346 | \$0 | \$11,770,691 | 50% |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$0 | \$0 | \$0 | \$0 | 25% |
| (f) | Construction Administration | \$200,900 | \$200,900 | \$0 | \$401,800 | 50% |
| (g) | Other Costs | \$0 | \$0 | \$0 | \$0 | 50% |
| (h) | Construction/Implementation Contingency | \$418,410 | \$0 | \$0 | \$418,410 | 100% |
| (i) | Grand Total (Sum rows (a) through (h) for each column) | \$9,410,556 | \$8,636,246 | \$0 | \$18,046,801 | 52% |

***Sources of funding: Board-authorized local expenditures \$355,900; SEWD M&I Fund #94 \$8,845,451; Proposition 1E grant \$8,636,246**

Table 14 - Summary Budget (DWR Table 6)

| DWR Table 6 – Summary Budget | | | | | | |
|---|---|--|-----------------------------------|--|--------------|------------------------|
| Proposal Title: Calaveras River Integrated Stormwater Management Project | | | | | | |
| Individual Project Title | | (a) Non-State Share* (Funding Match) | (b) Requested Grant Funding | (c) Other State Funds Being Used | (d) Total | (e) % Funding Match |
| (a) | RD1614 Wisconsin Avenue Pumping Station Replacement | \$1,313,831 | \$1,114,469 | \$0 | \$2,428,300 | 54% |
| (b) | SEWD Flood Detention and Groundwater Recharge Facility | \$9,201,351 | \$8,845,451 | \$0 | \$18,046,801 | 51% |
| (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) | \$10,515,182 | \$9,959,920 | \$0 | \$20,475,101 | 51% |

