# CITY OF NEWPORT BEACH
# PUBLIC WORKS DEPARTMENT

TITLE: **Water Well Rehabilitation - Dolphin and Tamura Shallow Wells**
CONTRACT NO.: **4053**
ENGINEER'S ESTIMATE: **$293,000.00**
PROJECT MANAGER: **Andy Tran**

BID LOCATION: City Clerk's Office - City Hall
DATE: 8/12/08 TIME: 10:00 AM
BY: J. Joh CHECKED: A. Tran

**Dolphin Shallow Well**

| | | | | Engineer's Estimate | | General Pump Co. | | Layne Christensen Co. | |
|---|---|---|---|---|---|---|---|---|---|
| ITEM | DESCRIPTION | QUANTITY | | UNIT $ | AMOUNT | UNIT $ | AMOUNT | UNIT $ | AMOUNT |
| D1 | Initial Downwell Flow Meter (Spinner) Survey | 1 | LS | $3,500.00 | $3,500.00 | $2,500.00 | $2,500.00 | $4,977.00 | $4,977.00 |
| D2 | Mobilization and Demobilization | 1 | LS | $25,000.00 | $25,000.00 | $19,000.00 | $19,000.00 | $22,000.00 | $22,000.00 |
| D3 | Pump Removal | 1 | LS | $8,400.00 | $8,400.00 | $8,000.00 | $8,000.00 | $5,550.00 | $5,550.00 |
| D4 | Rebuild Pump and Motor | 1 | LS | $40,000.00 | $40,000.00 | $34,000.00 | $34,000.00 | $38,641.50 | $38,641.50 |
| D5 | Wire Brushing and Bailing | 8 | Hr | $350.00 | $2,800.00 | $450.00 | $3,600.00 | $314.00 | $2,512.00 |
| D6 | Air-Jetting of Well | 1 | LS | $6,000.00 | $6,000.00 | $11,000.00 | $11,000.00 | $4,675.00 | $4,675.00 |
| D7 | Post Rehabilitation Downwell Video Survey | 1 | LS | $900.00 | $900.00 | $1,000.00 | $1,000.00 | $1,260.00 | $1,260.00 |
| D8 | Mobilization and Demobilization of Test Pump | 1 | LS | $15,000.00 | $15,000.00 | $14,000.00 | $14,000.00 | $14,728.00 | $14,728.00 |
| D9 | Treatment and Sampling of Discharge Fluids | 1 | LS | $13,000.00 | $13,000.00 | $14,000.00 | $14,000.00 | $8,009.00 | $8,009.00 |
| D10 | Pumping Development | 32 | Hr | $200.00 | $6,400.00 | $200.00 | $6,400.00 | $231.00 | $7,392.00 |
| D11 | Step-Drawdown Test | 12 | Hr | $200.00 | $2,400.00 | $200.00 | $2,400.00 | $231.00 | $2,772.00 |
| D12 | Constant-Rate Pumping Test | 48 | Hr | $200.00 | $9,600.00 | $100.00 | $4,800.00 | $231.00 | $11,088.00 |
| D13 | Final Downwell Flow Meter (Spinner) Survey | 1 | LS | $3,000.00 | $3,000.00 | $2,900.00 | $2,900.00 | $4,977.00 | $4,977.00 |
| D14 | Re-installation of Permanent Pump and Motor | 1 | LS | $9,000.00 | $9,000.00 | $8,000.00 | $8,000.00 | $6,020.00 | $6,020.00 |
| D15 | Well Disinfection and Site Clean Up | 1 | LS | $1,500.00 | $1,500.00 | $1,000.00 | $1,000.00 | $7,925.00 | $7,925.00 |
| | **Subtotal** | | | **EE** | **$146,500.00** | **LOW** | **$132,600.00** | **2ND** | **$142,526.50** |

**Tamura Shallow Well**

| | | | | Engineer's Estimate | | General Pump Co. | | Layne Christensen Co. | |
|---|---|---|---|---|---|---|---|---|---|
| ITEM | DESCRIPTION | QUANTITY | | UNIT $ | AMOUNT | UNIT $ | AMOUNT | UNIT $ | AMOUNT |
| T1 | Initial Downwell Flow Meter (Spinner) Survey | 1 | LS | $3,500.00 | $3,500.00 | $2,400.00 | $2,400.00 | $4,977.00 | $4,977.00 |
| T2 | Mobilization and Demobilization | 1 | LS | $25,000.00 | $25,000.00 | $13,000.00 | $13,000.00 | $22,000.00 | $22,000.00 |
| T3 | Pump Removal | 1 | LS | $8,400.00 | $8,400.00 | $8,000.00 | $8,000.00 | $5,550.00 | $5,550.00 |
| T4 | Rebuild Pump and Motor | 1 | LS | $40,000.00 | $40,000.00 | $30,000.00 | $30,000.00 | $34,277.50 | $34,277.50 |
| T5 | Wire Brushing and Bailing | 8 | Hr | $350.00 | $2,800.00 | $450.00 | $3,600.00 | $314.00 | $2,512.00 |
| T6 | Air-Jetting of Well | 1 | LS | $6,000.00 | $6,000.00 | $11,000.00 | $11,000.00 | $4,675.00 | $4,675.00 |
| T7 | Post Rehabilitation Downwell Video Survey | 1 | LS | $900.00 | $900.00 | $1,000.00 | $1,000.00 | $1,260.00 | $1,260.00 |
| T8 | Mobilization and Demobilization of Test Pump | 1 | LS | $15,000.00 | $15,000.00 | $14,000.00 | $14,000.00 | $14,728.00 | $14,728.00 |
| T9 | Treatment and Sampling of Discharge Fluids | 1 | LS | $13,000.00 | $13,000.00 | $14,000.00 | $14,000.00 | $8,009.00 | $8,009.00 |
| T10 | Pumping Development | 32 | Hr | $200.00 | $6,400.00 | $200.00 | $6,400.00 | $231.00 | $7,392.00 |
| T11 | Step-Drawdown Test | 12 | Hr | $200.00 | $2,400.00 | $200.00 | $2,400.00 | $231.00 | $2,772.00 |
| T12 | Constant-Rate Pumping Test | 48 | Hr | $200.00 | $9,600.00 | $100.00 | $4,800.00 | $231.00 | $11,088.00 |
| T13 | Final Downwell Flow Meter (Spinner) Survey | 1 | LS | $3,000.00 | $3,000.00 | $2,900.00 | $2,900.00 | $4,977.00 | $4,977.00 |
| T14 | Re-installation of Permanent Pump and Motor | 1 | LS | $9,000.00 | $9,000.00 | $8,000.00 | $8,000.00 | $6,020.00 | $6,020.00 |
| T15 | Well Disinfection and Site Clean Up | 1 | LS | $1,500.00 | $1,500.00 | $1,000.00 | $1,000.00 | $7,925.00 | $7,925.00 |
| | **Subtotal** | | | **EE** | **$146,500.00** | **LOW** | **$122,500.00** | **2ND** | **$138,162.50** |
| | **Total** | | | **EE** | **$293,000.00** | **LOW** | **$255,100.00** | **2ND** | **$280,689.00** |