

City of Orange: Summary of Bid Abstracts for:

Well No. 28 Drilling Project
 Bid No. 20-21.31; Project No. W-687A
 Date of Bid Opening: 3/18/2021

| ENGINEER'S ESTIMATE | | | | 1 | | 2 | | 3 | | 4 | | 5 | | | |
|---------------------|---|----------|-----|---|--------------|---|--------------|---|--------------|---|--------------|--|--------------|--------------|--------------|
| ENGINEER'S ESTIMATE | | | | Southwest Pump & Drilling, Inc. Coachella, CA Tel. No. (760) 398-3977 | | Best Drilling and Pump, Inc. Colton, CA Tel. No. (951) 684-1952 | | Zim Industries, Inc. Fresno, CA Tel. No. (559) 834-1551 | | Layne Christensen Company Redland, CA Tel. No. 909-390-2833 | | Nor-Cal Pump & Well Drilling, Inc. Yuba City Tel. No. (909) 592-2760 | | | |
| NO. | DESCRIPTION OF WORK | QUANTITY | | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT |
| 1 | Mobilization/Demobilization Reverse Circulation Drill Rig and Equipment, Permits, Bonds, and NPDES Compliance | 1 | LS | \$ 194,055.00 | \$194,055.00 | \$163,000.00 | \$163,000.00 | \$285,000.00 | \$285,000.00 | \$222,000.00 | \$222,000.00 | \$210,000.00 | \$210,000.00 | \$597,884.00 | \$597,884.00 |
| 2 | Furnish, Install and Maintain Noise Equipment and Noise Attenuation Panels | 500 | LF | \$ 250.00 | \$125,000.00 | \$200.00 | \$100,000.00 | \$135.00 | \$67,500.00 | \$130.00 | \$65,000.00 | \$289.00 | \$144,500.00 | \$405.00 | \$202,500.00 |
| 3 | 42-inch OD Steel Conductor Casing in 48-inch Borehole | 50 | LF | \$ 1,000.00 | \$50,000.00 | \$1,500.00 | \$75,000.00 | \$1,000.00 | \$50,000.00 | \$650.00 | \$32,500.00 | \$775.00 | \$38,750.00 | \$795.00 | \$39,750.00 |
| 4 | Pilot Hole Drilling | 1250 | LF | \$ 100.00 | \$125,000.00 | \$75.00 | \$93,750.00 | \$150.00 | \$187,500.00 | \$120.00 | \$150,000.00 | \$107.00 | \$133,750.00 | \$190.00 | \$237,500.00 |
| 5 | Downhole Geophysical Surveying | 1 | LS | \$ 10,000.00 | \$10,000.00 | \$10,000.00 | \$10,000.00 | \$6,000.00 | \$6,000.00 | \$6,800.00 | \$6,800.00 | \$29,360.00 | \$29,360.00 | \$10,427.00 | \$10,427.00 |
| 6A | Isolated Aquifer Zone Test Construction & Development | 6 | EA | \$ 10,000.00 | \$60,000.00 | \$18,000.00 | \$108,000.00 | \$17,000.00 | \$102,000.00 | \$22,500.00 | \$135,000.00 | \$42,250.00 | \$253,500.00 | \$24,725.00 | \$148,350.00 |
| 6B | Collect, Store and Transport Groundwater Samples to Laboratory | 6 | EA | \$ 6,000.00 | \$36,000.00 | \$5,000.00 | \$30,000.00 | \$5,000.00 | \$30,000.00 | \$12,000.00 | \$72,000.00 | \$4,745.00 | \$28,470.00 | \$4,865.00 | \$29,190.00 |
| 7A | 36-inch Diameter Pilot Hole Ream | 395 | LF | \$ 125.00 | \$49,375.00 | \$100.00 | \$39,500.00 | \$140.00 | \$55,300.00 | \$125.00 | \$49,375.00 | \$210.00 | \$82,950.00 | \$185.00 | \$73,075.00 |
| 7B | 30-inch Diameter Pilot Hole Ream | 555 | LF | \$ 120.00 | \$66,600.00 | \$75.00 | \$41,625.00 | \$130.00 | \$72,150.00 | \$120.00 | \$66,600.00 | \$161.00 | \$89,355.00 | \$185.00 | \$102,675.00 |
| 8A | Downhole Caliper Survey | 1 | LS | \$ 3,500.00 | \$3,500.00 | \$5,000.00 | \$5,000.00 | \$1,500.00 | \$1,500.00 | \$2,000.00 | \$2,000.00 | \$2,775.00 | \$2,775.00 | \$4,724.00 | \$4,724.00 |
| 8B | Downhole Deviation (magnetic) Survey | 1 | LS | \$ 3,500.00 | \$3,500.00 | \$5,000.00 | \$5,000.00 | \$1,500.00 | \$1,500.00 | \$2,200.00 | \$2,200.00 | \$2,965.00 | \$2,965.00 | \$4,570.00 | \$4,570.00 |
| 9 | Pilot Hole Bottom Seal (optional) | 1 | LS | \$ 1,000.00 | \$1,000.00 | \$5,000.00 | \$5,000.00 | \$2,000.00 | \$2,000.00 | \$3,000.00 | \$3,000.00 | \$9,985.00 | \$9,985.00 | \$2,385.00 | \$2,385.00 |
| 10 | 20-inch Type 304L Stainless Steel Pump House Casing | 442 | LF | \$ 570.00 | \$251,940.00 | \$606.00 | \$267,852.00 | \$581.00 | \$256,802.00 | \$690.00 | \$304,980.00 | \$575.00 | \$254,150.00 | \$657.00 | \$290,394.00 |
| 11 | 20-inch Type 304L Stainless Steel Blank Well | 150 | LF | \$ 475.00 | \$71,250.00 | \$509.00 | \$76,350.00 | \$488.00 | \$73,200.00 | \$585.00 | \$87,750.00 | \$480.00 | \$72,000.00 | \$563.00 | \$84,450.00 |
| 12 | 20-inch Type 304L Stainless Steel Louvered Casing | 350 | LF | \$ 540.00 | \$189,000.00 | \$600.00 | \$210,000.00 | \$576.00 | \$201,600.00 | \$685.00 | \$239,750.00 | \$570.00 | \$199,500.00 | \$665.00 | \$232,750.00 |
| 13 | 20-inch Type 304L Stainless Steel Cellar Pipe with Welded Bottom Cap | 20 | LF | \$ 500.00 | \$10,000.00 | \$675.00 | \$13,500.00 | \$651.00 | \$13,020.00 | \$605.00 | \$12,100.00 | \$634.00 | \$12,680.00 | \$675.00 | \$13,500.00 |
| 14A | 3-inch Schedule 80 Low Carbon Steel Gravel Feed Tube | 412 | LF | \$ 15.00 | \$6,180.00 | \$24.00 | \$9,888.00 | \$22.00 | \$9,064.00 | \$20.00 | \$8,240.00 | \$25.00 | \$10,300.00 | \$23.00 | \$9,476.00 |
| 14B | 4-inch Schedule 40, Type 304L Stainless Steel Camera Tube | 432 | LF | \$ 60.00 | \$25,920.00 | \$45.00 | \$19,440.00 | \$97.00 | \$41,904.00 | \$100.00 | \$43,200.00 | \$100.00 | \$43,200.00 | \$112.00 | \$48,384.00 |
| 14C | 2-inch Schedule 40, Type 304L Stainless Steel Pressure Transmitter/Sounding Tube | 422 | LF | \$ 25.00 | \$10,550.00 | \$17.00 | \$7,174.00 | \$34.00 | \$14,348.00 | \$27.00 | \$11,394.00 | \$40.00 | \$16,880.00 | \$32.00 | \$13,504.00 |
| 14D | 3-inch Schedule 40, Type 304L Stainless Steel Air Vent Tube | 1 | LS | \$ 500.00 | \$500.00 | \$1,000.00 | \$1,000.00 | \$1,000.00 | \$1,000.00 | \$2,000.00 | \$2,000.00 | \$2,500.00 | \$2,500.00 | \$125.00 | \$125.00 |
| 15 | Gravel Pack | 610 | LF | \$ 100.00 | \$61,000.00 | \$160.00 | \$97,600.00 | \$105.00 | \$64,050.00 | \$107.00 | \$65,270.00 | \$113.00 | \$68,930.00 | \$115.00 | \$70,150.00 |
| 16 | Annular Grout Seal | 385 | LF | \$ 70.00 | \$26,950.00 | \$130.00 | \$50,050.00 | \$78.00 | \$30,030.00 | \$90.00 | \$34,650.00 | \$136.00 | \$52,360.00 | \$115.00 | \$44,275.00 |
| 17 | Alignment Test | 1 | LS | \$ 5,000.00 | \$5,000.00 | \$5,000.00 | \$5,000.00 | \$5,000.00 | \$5,000.00 | \$6,000.00 | \$6,000.00 | \$9,250.00 | \$9,250.00 | \$9,862.00 | \$9,862.00 |
| 18 | Mechanical Well Development | 100 | HR | \$ 640.00 | \$64,000.00 | \$500.00 | \$50,000.00 | \$400.00 | \$40,000.00 | \$600.00 | \$60,000.00 | \$1,119.00 | \$111,900.00 | \$750.00 | \$75,000.00 |
| 19A | Chemical for Well Development (12.5% Chlorine Solution) | 180 | GAL | \$ 30.00 | \$5,400.00 | \$10.00 | \$1,800.00 | \$6.00 | \$1,080.00 | \$10.00 | \$1,800.00 | \$14.00 | \$2,520.00 | \$15.00 | \$2,700.00 |
| 19B | Chemical for Well Development (Polymer Dispersant) | 18 | GAL | \$ 260.00 | \$4,680.00 | \$200.00 | \$3,600.00 | \$150.00 | \$2,700.00 | \$100.00 | \$1,800.00 | \$65.00 | \$1,170.00 | \$175.00 | \$3,150.00 |
| 20 | Conduct Video Camera Survey | 3 | EA | \$ 1,500.00 | \$4,500.00 | \$1,500.00 | \$4,500.00 | \$2,000.00 | \$6,000.00 | \$2,500.00 | \$7,500.00 | \$6,395.00 | \$19,185.00 | \$1,895.00 | \$5,685.00 |
| 21A | Mobilization and Demobilization of Test Pump | 1 | LS | \$ 45,000.00 | \$45,000.00 | \$30,000.00 | \$30,000.00 | \$20,000.00 | \$20,000.00 | \$20,000.00 | \$20,000.00 | \$44,240.00 | \$44,240.00 | \$27,450.00 | \$27,450.00 |
| 21B | Furnish and Install a Pulse Signal Flowmeter to 350 ft bgs | 1 | LS | \$ 3,000.00 | \$3,000.00 | \$5,000.00 | \$5,000.00 | \$3,000.00 | \$3,000.00 | \$5,000.00 | \$5,000.00 | \$615.00 | \$615.00 | \$3,873.00 | \$3,873.00 |
| 22 | Furnish and Install an In-Situ Aqua Troll 600 Water Quality Prob & Flow Cell | 1 | LS | \$ 2,500.00 | \$2,500.00 | \$5,000.00 | \$5,000.00 | \$10,000.00 | \$10,000.00 | \$3,000.00 | \$3,000.00 | \$2,170.00 | \$2,170.00 | \$2,950.00 | \$2,950.00 |

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| | | | | ENGINEER'S ESTIMATE | | 1 Southwest Pump & Drilling, Inc. Coachella, CA Tel. No. (760) 398-3977 | | 2 Best Drilling and Pump, Inc. Colton, CA Tel. No. (951) 684-1952 | | 3 Zim Industries, Inc. Fresno, CA Tel. No. (559) 834-1551 | | 4 Layne Christensen Company Redland, CA Tel. No. 909-390-2833 | | 5 Nor-Cal Pump & Well Drilling, Inc. Yuba City Tel. No. (909) 592-2760 | |
|--------------|---|----------|----|---------------------|----------------|--|----------------|--|----------------|--|----------------|--|----------------|---|----------------|
| NO. | DESCRIPTION OF WORK | QUANTITY | | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT | UNIT PRICE | AMOUNT |
| 23 | Pumping Development | 48 | HR | \$ 450.00 | \$21,600.00 | \$400.00 | \$19,200.00 | \$400.00 | \$19,200.00 | \$420.00 | \$20,160.00 | \$450.00 | \$21,600.00 | \$425.00 | \$20,400.00 |
| 24A | Step-Drawdown Testing | 12 | HR | \$ 450.00 | \$5,400.00 | \$400.00 | \$4,800.00 | \$400.00 | \$4,800.00 | \$420.00 | \$5,040.00 | \$450.00 | \$5,400.00 | \$425.00 | \$5,100.00 |
| 24B | Constant Rate Pumping Test | 48 | HR | \$ 450.00 | \$21,600.00 | \$400.00 | \$19,200.00 | \$400.00 | \$19,200.00 | \$420.00 | \$20,160.00 | \$450.00 | \$21,600.00 | \$425.00 | \$20,400.00 |
| 25 | Downwell Dynamic Spinner Survey | 1 | LS | \$ 6,000.00 | \$6,000.00 | \$6,000.00 | \$6,000.00 | \$6,000.00 | \$6,000.00 | \$10,100.00 | \$10,100.00 | \$3,775.00 | \$3,755.00 | \$3,850.00 | \$3,850.00 |
| 26A | Depth-Discrete Groundwater Sampling | 7 | EA | \$ 2,000.00 | \$14,000.00 | \$500.00 | \$3,500.00 | \$1,000.00 | \$7,000.00 | \$800.00 | \$5,600.00 | \$750.00 | \$5,250.00 | \$1,750.00 | \$12,250.00 |
| 26B | Collect, Store and Transport Groundwater Samples to Laboratory | 7 | EA | \$ 7,000.00 | \$49,000.00 | \$100.00 | \$700.00 | \$5,000.00 | \$35,000.00 | \$12,000.00 | \$84,000.00 | \$4,125.00 | \$28,875.00 | \$3,850.00 | \$26,950.00 |
| 27 | Downwell Static Spinner Survey | 1 | LS | \$ 3,000.00 | \$3,000.00 | \$3,000.00 | \$3,000.00 | \$4,000.00 | \$4,000.00 | \$5,600.00 | \$5,600.00 | \$12,115.00 | \$12,115.00 | \$1,926.00 | \$1,926.00 |
| 28 | Well Disinfection and Capping | 1 | LS | \$ 2,000.00 | \$2,000.00 | \$3,600.00 | \$3,600.00 | \$1,000.00 | \$1,000.00 | \$2,800.00 | \$2,800.00 | \$9,705.00 | \$9,705.00 | \$3,572.00 | \$3,572.00 |
| 29 | Standby Time | 24 | HR | \$ 250.00 | \$6,000.00 | \$200.00 | \$4,800.00 | \$350.00 | \$8,400.00 | \$200.00 | \$4,800.00 | \$450.00 | \$10,800.00 | \$150.00 | \$3,600.00 |
| DEL30 | Destruction of Pilot Hole | 1300 | LF | \$ 100.00 | \$130,000.00 | \$40.00 | \$52,000.00 | \$10.00 | \$13,000.00 | \$10.00 | \$13,000.00 | \$32.00 | \$41,600.00 | \$50.00 | \$65,000.00 |
| ALT1 | Additional Cost to Ream, Develop, Test, Construct Casing and Gravel Pack for 300 LF | 1 | LS | \$ 262,820.00 | \$262,820.00 | \$265,600.00 | \$265,600.00 | \$259,000.00 | \$259,000.00 | \$280,200.00 | \$280,200.00 | \$285,520.00 | \$285,520.00 | \$289,500.00 | \$289,500.00 |
| Total | | | | | \$2,032,820.00 | | \$1,916,029.00 | | \$2,029,848.00 | | \$2,172,369.00 | | \$2,396,130.00 | | \$2,843,256.00 |