

## MARTIN COUNTY UTILITIES SCHEDULE OF WELLFIELD SERVICES

Item #	Item Description	UOM
1	Well Drill Ability to drill reverse & mud rotary	Per foot
2	Well Service Rig Minimum of 20 ton crane with support vehicle & 3 man crew	Per hour
3	Pump Service Rig Boom truck (15 ton) with support vehicle & 2 man crew	Per hour
4	Cement work or demolition Break up/demo site & remove all debris	Per hour
5	On site welding unit Certified welder capable of mig,stick,tig & spray welding	Per hour
6	Machine shop welding Certified welder capable of mig,stick,tig & spray welding	Per hour
7	Pump/Well technician Certified technician	Per hour
8	Chemical treatment Stabilized sodium hypochlorite will be injected into the well PPM ,volumes & pH range will be determined on a per well basis.	Per hour
9	Well abandonment Performed in accordance with SFWMD specifications (includes permit)	Per hour
10	Specific capacity test, before and after rehabilitation Performed at production GPM	Per hour
11	Biological Activity Reaction Tests (BART's)	Each
12	Wire to water pump efficiency test	Each
13	Vibration infared photography analysis	Per motor
14	Extra sand testing not during well development or pump testing Performed with Rossum sand tester	Each
15	Silt density index test (passing only, SDI less than 3)	Each
16	Well development & redevelopment Development performed with 600 to 750 CFM Air Compressor	Per hour
17	Clean casing and screen with casing scraper and brush	Each
18	Chemical disinfection of well after rehabilitation Performed in accordance with AWWA 654-03	Per hour
19	Pump/motor retrieval All tools, equipment necessary to retrieve equipment	Per hour

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20	Miscellaneous work as needed, normal business hours	Per hour
21	Miscellaneous work as needed, non normal business hours	Per hour
22	Flow meter maintenance & calibration Performed by a SFWMD certified technician	Per hour
23	Deep well pump & maintenance	Per hour
24	Well/pump/motor maintenance &/or repairs Performed by certified technician	Per hour
25	Raw water disposal Plan to be submitted with bid	Per hour
26	Pump test	Per hour
27	Chlorine Maintenance of Wells Plan to be submitted with bid	Each
28	Monthly monitoring record static levels, pumping levels, drawdowns, specific capacity & psi on all wells	Per well
29	Quarterly well monitoring reports comprehensive report with graphs compiling all monitoring information for each well	Per report
30	Water Storage tank residual cleaning Robotically clean using WEDA VR600 while the tank remains in service	Per tank
31	Tank/Clear well Inspections Inspect tank with remote operated submarine while tank remains in service	Per tank
32	Sealed comprehensive engineer reports Performed by a licensed engineer per DEP requirements	Per tank
33	360 Degree video survey	Each
34	Dynamic downhole video surveys Provide pump & equipment to perform video survey while well is pumping	Each
37	Mobilize, demobilize & cleanup	Per well
38	Remove & reinstall fencing to original condition	Each
39	Wellhead/pump removal & reinstallation	Each
40	Well acidification Well will be equipped with a sealed wellhead including psi gauge, blow off valve, tank & braden head. Acid blends shall consist of hydrochloric, sulfuric (as an extender), & braden head. Acid blends shall consist of hydrochloric, sulfuric (as an extender), citric (as a chelating agent) & Cotey chemical (used to help extend & suspend debris removal). Percentages of acids to be used will not exceed 10% of total volume injected	Each
41	Percent of Markup for parts supplied & installed	%