

AGENDA ITEM FOR ADMINISTRATIVE MEETING

() Discussion only
(X) Action

FROM (DEPT/ DIVISION): County Counsel

SUBJECT: Borings & Monitoring Wells

<p>Background: The County issued a Request for Proposals for three temporary geotechnical borings and completing and testing three new monitoring wells as part of the depot recharge project. investment services. Two bids were submitted: Cascade Drillings PL - \$335,740 Holt Services Inc. - \$234,965</p> <p>The bids have been reviewed by the county consultant for the project. The recommendation is to award the contract to the lower bid.</p>	<p>Requested Action: Approve contract for temporary borings and monitoring wells to Holt Services Inc. in the amount of \$234,965</p>
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ATTACHMENTS: Bids

Checkoffs:

- () Dept. Head (copy)
- () Budget (copy)
- () Legal (copy)

To be notified of Meeting:

Scheduled for meeting on: July 19, 2022

Action taken:



Doug Olsen
Umatilla County
216 SE 4th Street, Room 121
Pendleton, OR 97801

July 14, 2022

RE: REQUEST FOR BID – DEPOT GEOTECHNICAL BORINGS AND MONITOIIRNG WELLS

Dear Doug Olsen:

Cascade Drilling L.P., (CDLP), is pleased to submit our proposal for the monitoring and test well drilling at the site in Umatilla, OR. CDLP will mobilize a track mounted sonic drill rig and a truck mounted development rig from our Clackamas Oregon office. Our team has the equipment, training and the drilling experience and has performed numerous drilling projects on similar DOD/DOE sites that produced excellent results. CDLP will meet the requirements of completing the work on this project in a safe and timely manner.

CDLP will be paying our personnel Oregon State Prevailing wage. CDLP will also provide a payment bond and performance bond.

Thank you for the opportunity to provide you with a bid for the above referenced project. Cascade's pricing is based on the following assumptions and clarifications.

1. CDLP is assuming that site utility locates, and surveying will be provided by others.
2. All Cascade employees assigned to this project are 40-hour OSHA trained and are current with an 8-hour update, are enrolled in a medical monitoring program and are trained in First Aid and CPR.
3. Cascade does not anticipate utilizing any lower-tier subcontractors for this project, but if we should require this service, we would solicit small business companies.
4. Well borehole locations are located a legal distance from overhead power.

This proposal is contingent upon rig and crew availability, acceptable contract terms and conditions, review of the site-specific health and safety plan and is valid for 180 days from the date of this proposal.

Due to our support staff, experienced drillers and numerous drill rigs based in the Northwest, CDLP can complete technically challenging projects in much less field time required by other drilling contractors. CDLP can provide a large range of sampling equipment and casing sizes. This substantially lessens the impact of the drilling on the project and will shorten field operations.

We have the capacity to mobilize the drill rig and crew to perform this work in October of 2022.

Cascade Drilling L.P. is a limited partnership based in Bothell, WA. The companies DUNS number is 83 252 5740, and we are registered in the SAM system.

We appreciate the opportunity to be of service. Please feel free to call if you have any questions or need further information, I can be reached at Cell 503-572-3090.

Sincerely,



Trent Castner
503-572-3090
NW Regional Estimator

Attachment A – Rate Sheets

Attachment B – Project Referrals

BID FORM

Temporary Geotechnical Borings and Monitoring Wells
 Umatilla Army Depot, Umatilla County, Oregon

Trent Castner
 NW Regional Estimator
 Cascade Drilling L.P.
 tcastner@cascade-env.com
 cell (503) 572-3090

NOTE: THIS IS A PREVAILING WAGE JOB					
Item No.	Description	Quantity	Unit	Unit Cost	Total Cost
Mobilization and Demobilization					
1	Mobilization and Demobilization including all equipment and incidental items for drilling of three (3) temporary geotechnical borings, drilling and installing three (3) monitoring wells, and testing one (1) monitoring well, including site preparation and restoration	1	LS	\$30,000	\$30,000
2	Erosion Control and Water Management	1	LS	\$2,250	\$2,250
Drilling of Temporary Geotechnical Boreholes					
1	Drill 6-inch diameter borehole and continuous sampling (3 holes @ 60 feet bgs each)	180	LF	\$140	\$25,200
2	Abandon borings using a bentonite-grout slurry	180	LF	\$12.50	\$2,250
Drilling and Installation of Monitoring Wells MW-1 and MW-2					
1	Drill 6-inch diameter borehole and perform continuous sampling (80 feet at MW-1 and 170 feet bgs at MW-2)	250	LF	\$185	\$46,250
2	Install 40-feet of temporary screen and filter pack in MW-2 between 130 ft and 170 ft.	1	LS	\$12,500	\$12,500
3	Clean out 6-inch borehole in MW-2 to 170 ft	1	LS	\$8,250	\$8,250
4	Backfill MW-2 borehole between 80 ft and 170 ft	90	LF	\$35	\$3,150
5	Furnish and install 2-inch nominal, Schedule 40 PVC blank casing (including 3-foot stick-up) (63 feet at MW-1 and 63 feet at MW-2)	126	LF	\$40	\$5,040
6	Furnish and install 2-inch nominal, Schedule 40 PVC, 20-slot well screen (20 feet at MW-1 and 20 feet at MW-2)	40	LF	\$50	\$2,000
7	Furnish and install a filter pack (10-20 gradation silica sand) (23 feet at MW-1 and 23 feet at MW-2)	46	LF	\$30	\$1,380
8	Furnish and install fine sand transition seal (2 feet at MW-1 and 2 feet at MW-2)	4	LF	\$35	\$140
9	Furnish and install hydrated grout slurry seal (53 feet at MW-1 and 53 feet at MW-2)	106	LF	\$35	\$3,710
10	Well Development	8	HR	\$550	\$4,400
11	Well Disinfection	2	LS	\$450	\$900
12	Furnish and install well cap and temporary well protection	2	LS	\$3,250	\$6,500
Drilling, Installation, and Testing of Monitoring Well MW-3					
1	Drill 10-inch diameter borehole and perform continuous sampling	170	LF	\$425	\$72,250
2	Furnish and install 6-inch nominal, Schedule 40 PVC blank casing (including 3-foot stick-up)	133	LF	\$180	\$23,940
3	Furnish and install 6-inch nominal, Schedule 40 PVC slotted screen (slot size to be determined)	40	LF	\$240	\$9,600
4	Furnish and install a filter pack (gradation to be determined)	43	LF	\$85	\$3,655
5	Furnish and install fine sand transition seal	2	LF	\$65	\$130
6	Well Development	8	HR	\$550	\$4,400
7	Furnish and hydrated grout slurry seal	123	LF	\$65	\$7,995
8	Furnish, install, and remove test pump system and appurtenances required to complete aquifer testing	1	LS	\$15,500	\$15,500
9	Furnish, install, and remove discharge hosing for the test pump (assume 1,500 ft)	1	LS	\$6,000	\$6,000
10	Perform step-rate drawdown test	6	HR	\$550	\$3,300
11	Perform 48-hour constant-rate drawdown test, including water level and flow monitoring during the pumping period (includes one hour of water level monitoring prior to test)	49	HR	\$550	\$26,950
12	Water level recovery monitoring	8	HR	\$550	\$4,400
13	Well Disinfection	1	LS	\$450	\$450
14	Furnish and install well cap and temporary well protection	1	LS	\$3,250	\$3,250
Hourly Work/Standby Time					
1	Authorized Hourly Work	0	HR	\$625	
2	Standby Time	0	HR	\$625	
BID SUBTOTAL					\$335,740

LS = Lump sum; LF = linear foot; HR = hour

PROJECT SCHEDULE

Please provide the estimated date that you would be available to start work on the project. The County would like to begin drilling on September 6, 2022.	October 10th, 2022
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Trent Castner

7/14/2022



Account Name Ground Water Solutions, Inc.
 Address 55 SW Yamhill St Ste 300
 Portland, OR 97204

Bid Date 7/13/2022
 Quote Number
 Quote Revision Date
 Project Name

7/13/2022
 Sonic Borings/Monitoring Wells and Pump Test

Contact Name Chris Wick
 Email cwick@qsiws.com
 Phone (323) 610-3792
 Bill To Account Number

Project Address Umatilla Army Depot
 Project City Umatilla
 Project State OR
 Project Zip

Cascade Rep Contact Information

Prepared By Trent Castner Email tcastner@cascade-env.com

Scope of Work

Three (3) borings, two (2) 2-inch wells and one 6-inch well will be installed using a sonic drill rig in Umatilla Army Depot in Oregon.

- The borings will be drilled to 60-feet
- Two (2) wells will be drilled to 170-feet and backfilled to 80-feet with silica sand where the wells will be constructed (pending ODWR variance approval)
- One (1) 6-inch well will be installed at 170-feet using 40 feet of well screen
- The wells will be developed by Cascade Drilling; a four (4) hour step and a forty-eight (48) hour pump tests will be performed
- The well completions will be above ground monuments with three bollards per well

Drill cuttings and decon/development water will be discharged on site. Expect reasonable drill rig access. Assume 7:00AM to 5:30PM work hours and no prevailing wage requirements.

Description	Quantity	Unit	Sales Price	Subtotal
Mobilization and Demobilization	1	LS	\$ 30,000.00	\$ 30,000.00
Erosion Control and Water Management	1	LS	\$ 2,250.00	\$ 2,250.00
Drill 6-inch diameter boreholes and continuous sampling	180	LF	\$ 140.00	\$ 25,200.00
Abandon borings using a bentonite-grout slurry	180	LF	\$ 12.50	\$ 2,250.00
Drill 6-inch borehole to install 170' and 80' borings for well	250	LF	\$ 185.00	\$ 46,250.00
Install 40-feet of temporary screen and filter pack	1	LS	\$ 12,500.00	\$ 12,500.00
Clean out 6-inch borehole in MW-2 to 170ft	1	LS	\$ 8,250.00	\$ 8,250.00
Backfill MW-2 borehole between 80ft and 170ft	90	LF	\$ 35.00	\$ 3,150.00
Furnish and Install 2-inch nominal schedule 40 PVC casing	126	LF	\$ 40.00	\$ 5,040.00
Furnish and install 2-inch nominal schedule 40 PVC screen	40	LF	\$ 50.00	\$ 2,000.00
Furnish and install a filter pack 10-20 sand	46	LF	\$ 30.00	\$ 1,380.00
Furnish and install fine sand transition seal	4	LF	\$ 35.00	\$ 140.00
Furnish and install hydrated grout slurry seal	106	LF	\$ 35.00	\$ 3,710.00
Well Development	8	HR	\$ 550.00	\$ 4,400.00
Well Disinfection	2	LS	\$ 450.00	\$ 900.00
Furnish and install well cap and temporary well protection	2	LS	\$ 3,250.00	\$ 6,500.00
Drill 10-inch diameter borehole and perform cont. sampling	170	LF	\$ 425.00	\$ 72,250.00
Furnish and install 6-inch schedule 40 PVC casing	133	LF	\$ 180.00	\$ 23,940.00
Furnish and install 6-inch schedule 40 PVC screen	40	LF	\$ 240.00	\$ 9,600.00
Furnish and installed a filter pack (gradation to be determined)	43	LF	\$ 85.00	\$ 3,655.00
Furnish and install fine sand transition seal	2	LF	\$ 65.00	\$ 130.00
Well Development	8	HR	\$ 550.00	\$ 4,400.00
Furnish and hydrated grout slurry seal	123	LF	\$ 65.00	\$ 7,995.00
Furnish install remove test pump system	1	LS	\$ 15,500.00	\$ 15,500.00
Furnish and Install discharge hose 1500'	1	LS	\$ 6,000.00	\$ 6,000.00
Perform step rate test	6	HR	\$ 550.00	\$ 3,300.00
Perform 48-hour constant-rate drawdown test	49	HR	\$ 550.00	\$ 26,950.00
Water level recovery monitoring	8	HR	\$ 550.00	\$ 4,400.00
Well Disinfection	1	LS	\$ 450.00	\$ 450.00
Furnish and install well cap temporary well protection	1	LS	\$ 3,250.00	\$ 3,250.00
Authorized hourly work		HR	\$ 625.00	\$ -
Standby time		HR	\$ 625.00	\$ -

Pre-Tax Total \$335,740.00
 Tax Percentage
 Taxes
 Quote Total \$335,740.00

Oregon: 13600 SE AMBLER RD, CLACKAMAS OR 97015 ♦ (503) 775-4118

HOLT SERVICES INC.

BID FORM

Temporary Geotechnical Borings and Monitoring Wells
Umatilla Army Depot, Umatilla County, Oregon

NOTE: THIS IS A PREVAILING WAGE JOB					
Item No.	Description	Quantity	Unit	Unit Cost	Total Cost
Mobilization and Demobilization					
1	Mobilization and Demobilization including all equipment and incidental items for drilling of three (3) temporary geotechnical borings, drilling and installing three (3) monitoring wells, and testing one (1) monitoring well, including site preparation and restoration	1	LS	\$35,000 ⁰⁰	\$35,000 ⁰⁰
2	Erosion Control and Water Management	1	LS	\$500 ⁰⁰	\$500 ⁰⁰
Drilling of Temporary Geotechnical Boreholes					
1	Drill 6-inch diameter borehole and continuous sampling (3 holes @ 60 feet bgs each)	180	LF	\$75 ⁰⁰	\$13,500 ⁰⁰
2	Abandon borings using a bentonite-grout slurry	180	LF	\$35 ⁰⁰	\$6,300 ⁰⁰
Drilling and Installation of Monitoring Wells MW-1 and MW-2					
1	Drill 6-inch diameter borehole and perform continuous sampling (80 feet at MW-1 and 170 feet bgs at MW-2)	250	LF	\$75 ⁰⁰	\$18,750 ⁰⁰
2	Install 40-feet of temporary screen and filter pack in MW-2 between 130 ft and 170 ft.	1	LS	\$3,500 ⁰⁰	\$3,500 ⁰⁰
3	Clean out 6-inch borehole in MW-2 to 170 ft	1	LS	\$3,500 ⁰⁰	\$3,500 ⁰⁰
4	Backfill MW-2 borehole between 80 ft and 170 ft	90	LF	\$45 ⁰⁰	\$4,050 ⁰⁰
5	Furnish and install 2-inch nominal, Schedule 40 PVC blank casing (including 3-foot stick-up) (63 feet at MW-1 and 63 feet at MW-2)	126	LF	\$30 ⁰⁰	\$3,780 ⁰⁰
6	Furnish and install 2-inch nominal, Schedule 40 PVC, 20-slot well screen (20 feet at MW-1 and 20 feet at MW-2)	40	LF	\$35 ⁰⁰	\$1,400 ⁰⁰
7	Furnish and install a filter pack (10-20 gradation silica sand) (23 feet at MW-1 and 23 feet at MW-2)	46	LF	\$35 ⁰⁰	\$1,610 ⁰⁰
8	Furnish and install fine sand transition seal (2 feet at MW-1 and 2 feet at MW-2)	4	LF	\$35 ⁰⁰	\$140 ⁰⁰
9	Furnish and install hydrated grout slurry seal (53 feet at MW-1 and 53 feet at MW-2)	106	LF	\$35 ⁰⁰	\$3,710 ⁰⁰
10	Well Development	8	HR	\$950 ⁰⁰	\$7,600 ⁰⁰
11	Well Disinfection	2	LS	\$2200 ⁰⁰	\$4,400 ⁰⁰
12	Furnish and install well cap and temporary well protection	2	LS	\$1,900 ⁰⁰	\$3,800 ⁰⁰
Drilling, Installation, and Testing of Monitoring Well MW-3					
1	Drill 10-inch diameter borehole and perform continuous sampling	170	LF	\$110 ⁰⁰	\$18,700 ⁰⁰
2	Furnish and install 6-inch nominal, Schedule 40 PVC blank casing (including 3-foot stick-up)	133	LF	\$75 ⁰⁰	\$9,975 ⁰⁰
3	Furnish and install 6-inch nominal, Schedule 40 PVC slotted screen (slot size to be determined)	40	LF	\$85 ⁰⁰	\$3,400 ⁰⁰
4	Furnish and install a filter pack (gradation to be determined)	43	LF	\$55 ⁰⁰	\$2,365 ⁰⁰
5	Furnish and install fine sand transition seal	2	LF	\$55 ⁰⁰	\$110 ⁰⁰
6	Well Development	8	HR	\$950 ⁰⁰	\$7,600 ⁰⁰
7	Furnish and hydrated grout slurry seal	123	LF	\$50 ⁰⁰	\$6,150 ⁰⁰
8	Furnish, install, and remove test pump system and appurtenances required to complete aquifer testing	1	LS	\$25,000 ⁰⁰	\$25,000 ⁰⁰
9	Furnish, install, and remove discharge hosing for the test pump (assume 1,500 ft)	1	LS	\$8,500 ⁰⁰	\$8,500 ⁰⁰
10	Perform step-rate drawdown test	6	HR	\$575 ⁰⁰	\$3,450 ⁰⁰
11	Perform 48-hour constant-rate drawdown test, including water level and flow monitoring during the pumping period (includes one hour of water level monitoring prior to test)	49	HR	\$575 ⁰⁰	\$28,175 ⁰⁰
12	Water level recovery monitoring	8	HR	\$575 ⁰⁰	\$4,600 ⁰⁰
13	Well Disinfection	1	LS	\$2,900 ⁰⁰	\$2,900 ⁰⁰
14	Furnish and install well cap and temporary well protection	1	LS	\$2,500 ⁰⁰	\$2,500 ⁰⁰
Hourly Work/Standby Time					
1	Authorized Hourly Work	0	HR	\$950 ⁰⁰	0
2	Standby Time	0	HR	\$950 ⁰⁰	0
BID SUBTOTAL					\$234,965⁰⁰

LS = lump sum; LF = linear foot; HR = hour

PROJECT SCHEDULE

Please provide the estimated date that you would be available to start work on the project. The County would like to begin drilling on September 6, 2022.

10/31/2022

Completed By: PAUL SMITH

PROJECT MANAGER

PSMITH@HOLTSERVICESINC.COM

PH# 253-693-3402



ITB Temporary Geotechnical Borings
and Monitoring Wells
Umatilla County, Oregon

-Holt Services Inc is not a resident bidder with respect to this project

-Holt Services Inc is licensed by the Oregon CCB (#198764) and by the Oregon
Department of Water Resources (Bonded MW Lic#10511)

-Holt Services Inc will comply with the provisions of ORS 279C.800 - 870, including the
payment of the applicable prevailing rate of wage.

Paul R Smith

A handwritten signature in black ink, appearing to read 'Paul R Smith', with a long horizontal flourish extending to the right.

Project Manager

Holt Services Inc

Email: psmith@holtservicesinc.com

Office# 253-693-3402