

Request for Proposals

RFP #18-010

City of Gearhart Monitoring Well Abandonments

Offered by: The City of Gearhart, Oregon
Public Works Department

Issued: January 21, 2019

Submissions due: 4:00 PM February 22, 2019

Contact Information:

City of Gearhart
Mr. Chad Sweet – City Administrator
698 Pacific Way
Gearhart, Oregon 97138
Phone: (503) 738-5501
Email: ChadSweet@CityofGearhart.com

Purpose:

The purpose of this Request for Proposals (RFP) is to solicit proposals, in accordance with the City of Gearhart's (the City) Procurement Policy, from qualified persons and firms who by reason of their skill, knowledge, and experience are able to furnish project-specific services for the City.

The information presented within this RFP is provided to acquaint you (Contractor) with the intentions of the City in regards to this project. You are encouraged to make your own independent judgement of site conditions, City requirements, and contract requirements to determine your proposal decisions. The City is not liable for the accuracy or relevance of information contained herein or through other project specific communications. It is the responsibility of the responding individual/firm to field and verify all information provided.

Introduction and Background:

The City of Gearhart, Oregon operates a municipal water supply in accordance with Oregon Water Resource Department (OWRD) Permit G-16390 to Appropriate Public Waters. The City began appropriating water under the Permit in July 2012. Water is appropriated via eight water supply production wells. Eight monitoring wells are also used for measuring groundwater quality and static water level elevations.

The City installed groundwater monitoring wells MW-1, MW-2, and MW-3 in accordance with the Permit in the foredune area between the Pacific Ocean to the west and the production wellfield to the east.

In June 2009, the City was informed by the Oregon Parks and Recreation Department (OPRD) that two of the foredune monitoring wells, MW-1 and MW-2, were located within the Gearhart State Recreation

Area (GSRA). The City obtained a Miscellaneous Use Permit from OPRD authorizing the temporary presence of these wells for up to 3 years.

Subsequent to issuance of the Miscellaneous Use Permit the Oregon Department of State Lands (DSL) indicated that the location of these wells is, in fact, outside of lands owned by OPRD, but that the wells are located on land that OPRD maintains and controls. DSL recommended that the City remove the wells or obtain an extension of the earlier permit. The City, in consultation with the OWRD, has decided to permanently remove/abandon the two monitoring wells.

Project Description:

The City of Gearhart is seeking proposals for the permanent abandonment of monitoring wells CLAT 53145 (MW-1) and CLAT 53146 (MW-2) in accordance with applicable OWRD guidelines and regulations.

All work shall be completed within the established rules and standards for well construction/abandonment in Oregon. Contractor shall have in effect a surety bond or irrevocable letter of credit issued by an insured institution as defined in ORS 706.008, running to the State of Oregon in the sum of \$10,000 ensuring that in the construction/abandonment of the wells, the driller shall comply with all of the provisions of ORS 535.705 – 795 and 537.992 that are applicable and to the rules and standards that have been prescribed by the Water Resources Commission.

Contractor shall file the bond or letter of credit with the Water Resources Commission. Each Proposer must provide with the Proposal a copy of Proposer's monitoring well constructor's license issued by the OWRD and must be in good standing with the OWRD.

Scope of work:

Abandonment activities will include the over-drilling and removal of PVC casings, removal of steel surface casings, above-ground steel monuments, and cement pads, and disposed off-site. An OWRD Special Standards request for abandonment via grout-in-place method will not be granted. All casing, screen, annular sealing material, drill cuttings, debris, and filter pack material shall be removed prior to sealing. All well abandonment activities shall be conducted in compliance with OWRD regulations regarding *Abandonment of Monitoring Wells* (OAR 690-240-0510).

Monitoring well MW-1 (CLAT 53145) is constructed of 2-inch diameter PVC casing completed at a depth of 165 feet below ground surface (bgs). Monitoring well MW-2 (CLAT 53146) is constructed of 2-inch diameter PVC casing and completed at a depth of 163 feet bgs. The wells are completed with above-ground, steel surface casings and monuments. Copies of the OWRD well logs are attached.

Both wells are located in an un-paved (sand dune) beach area and will require access via a track-mounted drill rig or provide similar means to gain access and to prevent/minimize damage to native vegetation.

The Contractor shall be responsible for securing all necessary state and/or Clatsop County permits and submitting the necessary OWRD Well Abandonment Reports. All work shall be conducted by an Oregon licensed and bonded Monitoring Well Constructor.

Proposer shall submit its Proposal in a sealed package addressed to the City with the Proposer's name and the RFP number clearly visible on the outside of the package. Electronic proposal attachments shall be formatted using Adobe Acrobat (pdf), Microsoft Word (docx), or Microsoft Excel (xlsx). Facsimile

proposals **will not be allowed or accepted**. Failure to comply with this requirement shall result in rejection of the Proposal as non-responsive.

Proposals will be reviewed after the deadline established for receipt of proposals. Proposals will not be opened publicly and will not be available for public inspection until after the award of the contract.

Proposal Tenure:

All proposals shall include a statement that the proposal shall be valid until contract award.

Incurred Expenses:

The City shall not be responsible for any expenses incurred by Provider in responding to this RFP. All costs incurred by Provider in the preparation, transmittal, or presentation of any proposal or material submitted in response to this RFP shall be borne solely by the Provider.

Cancellation of Requests for Proposals or Rejection of Proposals:

The City may cancel this RFP at any time for any reason. The City may reject any and/or all proposals for any reason as determined by the City.

Evaluation criteria:

Proposals will be evaluated on the following criteria:

1. Demonstrated experience level and expertise of the firm for similar projects (30%).
2. Qualifications and experience of project team key personnel (20%).
3. Estimated costs, schedule, and demonstrated understanding of the purpose, nature and requirements of the proposed project (30%).
4. Availability of the Contractor and appropriate staff to complete scope of work within the general timeframe and budget (10%)
5. References (10%).

Questions regarding this RFP – Please submit all questions, in writing via email to Mark McFadden at publicworks@cityofgearhart.com. Any substantive questions will be addressed in an addendum and issued to all firms on the proposers list.

Proposers List – Please email Mark McFadden at publicworks@cityofgearhart.com if you would like to be included on the submittal list. This will ensure that you receive any addenda issued by the City.

Submittal delivery - Proposals and qualifications (one copy) may be submitted by email to the City Clerk at gailcomo@cityofgearhart.com , by mail, or hand delivered to:

City of Gearhart
Attn: City Clerk
698 Pacific Way
PMB 2510
Gearhart, Oregon 97138

All submittals must be received by the contact person at the above address no later than **February 22, 2019 at 4:00 p.m. Pacific Time**. Proposals shall be in envelopes marked **RFP for Monitoring Well Abandonments**.

Attachments:

Attachment A – Sample Professional Services Agreement

Attachment B – Insurance Requirements

OWRD Well Logs

ATTACHMENT A
Sample Professional Services Agreement

- **Contract Title:**
- **Parties:** City of Gearhart (hereinafter "**City**"), and, _____ (hereinafter, "**Contractor**").
- **Total Amount:** \$ _____
- **Date of Contract:** _____, 2019

THIS AGREEMENT is entered into between the above named Parties as follows:

1. Services and Performance by Contractor. The Contractor shall provide services as described in Attachment ____.

2. Payment by the City. The City shall provide by payment a total amount not to exceed the amount set forth above for services provided in this Agreement.

3. Term and Completion of Work. This Agreement shall remain in effect until completion of the services described in Attachment 1 and final payment has occurred, unless terminated in accordance with this Agreement. Work shall not commence until the City provides Contractor with written notice to proceed. The City will not issue a notice to proceed until Contractor has provided insurance as required by this Agreement. All work shall be completed by _____, 2019.

4. Insurance Requirements. Contractor shall take out and maintain insurance as set forth in **Attachment B**.

5. General Terms

A. Payment Schedule and Terms

- The project fee set forth in this Agreement is the total amount due to the Contractor for all services performed and expenses incurred under this Agreement.
- The project fee includes direct labor costs, overhead costs, and direct (expense) costs, including materials, supplies, equipment, costs for travel, reproduction costs and telephone, facsimile and computer use incurred during the billing period.
- The Contractor shall maintain time and expense records and provide them not more frequently than monthly to the City, along with invoices in a format acceptable to the City for work performed to the date of invoice. Contractor shall provide progress reports, scheduling and completion information on request of the City.
- Contractor shall keep cost records and accounts pertaining to this Agreement available for inspection by the City's representative for three (3) years after final payment. Contractor will provide copies to the City upon request at no additional charge.

- If the services rendered do not meet the requirements of the Agreement, the Contractor will correct or modify the work to comply with the Agreement. The City may withhold payment for such work until the work meets the requirements of the Agreement.

B. Termination.

The City may terminate this Agreement for cause after notifying the Contractor of its default and giving the Contractor ten (10) days to cure the default. Contractor will be paid just and equitable compensation as provided in Paragraph 2 for any satisfactory work completed prior to the date of termination.

C. Indemnification / Hold Harmless

Contractor shall defend, indemnify and hold the City, its officers, officials, employees and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees, arising out of or resulting from the willful misconduct or negligent acts, errors or omissions of the Contractor in performance of this Agreement, except for injuries and damages caused by the negligence of the City.

D. No Partnership.

The Parties agree that nothing contained in this Agreement shall be considered as in any way constituting a partnership between the City and Contractor.

E. Independent Consultant.

The Contractor is and shall be at all times during the term of this Agreement, an independent contractor and not an employee of the City. The parties fully understand the nature of independent contractor status and intend to create an independent contractor relationship. The Contractor, and not the City, shall have the right to control the manner and means by which the work or services is accomplished. The City shall retain the right, however, to ensure that the work or services is being performed according to agreed-upon requirements. Consistent with this relationship, Contractor shall not be covered by any City benefit programs, such as health and welfare benefit plans, social security, workers compensation or unemployment compensation, and shall not be treated as an employee for federal or state tax purposes or any other purpose. Contractor shall be responsible for paying all taxes related to payments City makes to Contractor, including federal income taxes, self-employment (Social Security and Medicaid) taxes, local and state business and occupation taxes, and the City is not responsible for withholding for or paying any of those taxes.

F. Non-discrimination.

Contractor and its employees, agents, and sub-consultants, if any, shall at all times comply with any and all federal, state or local laws, ordinances, rules or regulations with respect to non-discrimination and equal employment opportunity, which may at any time be applicable to the City by law, contract or otherwise, including but not limited to all such requirements which may apply in connection with employment or the provision of services to the public.

G. Compliance with all applicable laws.

Contractor shall at all times in connection with performance of this Agreement, comply with any and all other applicable federal, state and local laws, rules, ordinances and regulations.

H. Notices.

All notices shall be delivered personally or may be delivered by any of the following methods: mailed by certified mail, return receipt requested; regular mail; courier service; facsimile or electronic mail to the other party as their address appears of record with the City or State. In the case of notice by mail, notice shall be deemed given on the date of postmark. In case of facsimile or electronic mail, notice shall be deemed given when received.

I. Ownership of Documents.

All work products, papers, notes, memoranda, correspondence, drawings, specifications, reports, and other documents and records of any sort produced, received, held or maintained in conjunction with the performance of this Agreement by the Contractor shall be and are the exclusive property of the City, except that the Contractor may use such materials to assist other public agencies. Upon request of the City, or upon completion of any of the services provided for in this Agreement, or upon termination of this Agreement for any reason, the Contractor shall deliver to the City, machine-reproducible in format acceptable to the City copies of any and all such materials. Once accepted by the City, Contractor shall have no responsibility for subsequent use by other persons.

J. Nonwaiver.

Any failure by the City to enforce strict performance of any proviso of this Agreement will not constitute a waiver of the City's right to subsequently enforce such provision or any other provision of this Agreement.

K. Severability.

If any term or provision of this Agreement is held invalid, the remainder of such terms or provision of this Agreement shall not be affected, if such remainder would then continue to conform to the terms and requirements of applicable law.

L. Legal Fees.

In any lawsuit between the parties with respect to matters covered by this Agreement, the prevailing party will be entitled to receive its reasonable attorney fees and costs in the lawsuit, in addition to any other relief that may be awarded.

M. Applicable Law; Venue.

This Agreement shall be construed and interpreted in accordance with the laws of the State of Oregon. The venue of any action shall be in the Superior Court of Clatsop County.

N. Assignment or Delegation.

Contractor shall not assign any of its rights or interest in this Agreement, nor delegate any of its duties hereunder to any other person, firm or entity without the express written consent of the City first being obtained.

O. Modification.

No modification of this Agreement shall be effective unless agreed to in writing and signed by the Parties.

P. Complete Agreement.

This Agreement together with the Attachments reflects the entire agreement of the parties relating to the subject matter thereof, supersedes all prior or contemporaneous oral or written agreements, or any understandings, statements, representation or promises, and is intended fully to integrate the agreement between the parties with respect to the matters described in this Agreement.

Q. Other Terms.

Additional Terms (if any) are set forth in an Attachment that will be numbered Attachment 3, and initialed and dated by the parties.

IN WITNESS WHEREOF, the City of Gearhart and Contractor have executed this Agreement.

CITY OF GEARHART

An Oregon Municipal Corporation

By: _____
Chad Sweet, City Administrator

Date: _____

CONTRACTOR

By: _____,

Title: _____

Date: _____

Mailing Address:

Approved as to form:

By: _____
Peter Watts, City Attorney

**ATTACHMENT 1
SCOPE OF SERVICES**

ATTACHMENT B INSURANCE REQUIREMENTS

Insurance

The Contractor shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Contractor, its agents, representatives, or employees.

No Limitation

Contractor's maintenance of insurance as required by the agreement shall not be construed to limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the City's recourse to any remedy available at law or in equity.

A. Minimum Scope of Insurance

Contractor shall obtain insurance of the types described below:

1. Automobile Liability insurance covering all owned, non-owned, hired and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage.
2. Commercial General Liability insurance shall be written on ISO occurrence form CG 00 01 and shall cover liability arising from premises, operations, independent contractors and personal injury and advertising injury. The City shall be named as an insured under the Contractor's Commercial General Liability insurance policy with respect to the work performed for the City.
3. Workers' Compensation coverage as required by the insurance laws of the State of Oregon.

B. Minimum Amounts of Insurance

Contractor shall maintain the following minimum insurance limits:

1. Automobile Liability insurance with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident.
2. Commercial General Liability insurance shall be written with limits no less than \$1,000,000 per each occurrence, \$2,000,000 general aggregate.

C. Other Insurance Provisions

The Contractor's Automobile Liability and Commercial General Liability insurance policies are to contain or be endorsed to contain that they shall be primary insurance as respect to the City. Any Insurance, self-insurance, or insurance pool coverage maintained by the City shall be in excess of the Contractor's insurance and shall not contribute with it.

D. Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best rating of not less than A:VII.

E. Verification of Coverage

Contractor shall furnish the City with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Consultant before commencement of the work.

F. Notice of Cancellation

The Contractor shall provide the City with written notice of any policy cancellation, within two business days of their receipt of such notice.

G. Failure to Maintain Insurance

Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the City may, after giving five (5) business days' notice to the Contractor to correct the breach, immediately terminate the contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the City on demand, or at the sole discretion of the City, offset against funds due the Contractor from the City.

(as required by ORS 537.765 & OAR 690-240-0395)

START CARD # 1005441

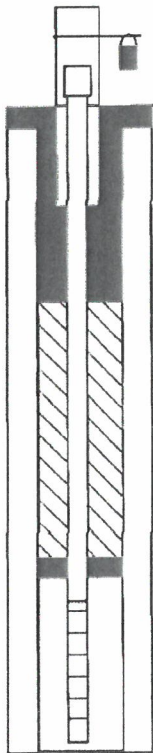
Owner Well I.D. MW-1

(2) TYPE OF WORK ☒ New ☐ Deepening ☐ Conversion
☐ Alteration (repair/recondition) ☐ Abandonment

☐ Rotary Air ☒ Rotary Mud ☐ Cable ☐ Hollow Stem Auger ☐ Cable Mud
☐ Reverse Rotary ☐ Other _____

Piezometer Well ☐

Depth of Completed Well 165 ft. Special Standard ☐



MONUMENT/VAULT Above Ground
From 25 To 25

BORE HOLE
Diameter 6 From 0 To 165

CASING

Dia 2 From ☒ 2 To 150

Gauge sch 40 Wld Thrd

Material ☐ Steel ☒ Plastic ☐ ☒

LINER

Dia. _____ From ☐ _____ To _____

Gauge _____ Wld Thrd

Material ☐ Steel ☐ Plastic ☐ ☐

SEAL

From 2 To 147

Material Bentonite

Amount 8.00 S Grout weight 9.4

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 150 To 165
Slot Size .010

From 147 To 165 FILTER Material Co Silica Size of pack 8/12

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Temperature 57 °F Lab analysis ☐ Yes By _____

Supervising Geologist/Engineer Kennedy Jenks

Water quality concerns? ☐ Yes (describe below)

From	To	Description	Amount	Units

County Clatsop Twp 6.00 N N/S Range 10.00 W E/W WM
Sec 24 SW 1/4 of the SW 1/4 Tax Lot ROW
Tax Map Number _____ Lot _____
Lat _____ " or ~~46.02114800~~ 46.01.458 DMS or DD
Long _____ " or ~~123.01475000~~ W 123.55.708 S or DD
(6) Street address of well (C) Nearest address

698 PACIFIC WAY GEARHART, OR

	Date	SWL(psi)	+ SWL(ft)
Existing Well / Predeepening			
Completed Well	10-29-2008		28

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES					
Flowing Artesian: <input type="checkbox"/> Dry Hole: <input type="checkbox"/>					
Depth water was first found					
SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
10-29-2008	28	165	5		<input checked="" type="checkbox"/> 28
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

Ground Elevation

[illegible]

Date Started 10-28-2008 Completed 10-29-2008

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief

License Number 10328 Date 11-11-2008

Electronically Submitted

Signed JOEL R WELSH (E-filed)

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 10357 Date 11-11-2008

Electronically Submitted

Signed TERRENCE JACQUES (E-filed)

Contact Info (optional)

MONITORING WELL REPORT -

Map with location identified must be attached and shall include an approximate scale and north arrow

CLAT 53145

CLAT 53145

11-11-2008

WELL I.D. # L 98883

Page 2 of 2

START CARD # 1005441

Map of well

Cascade Project No.

P08377

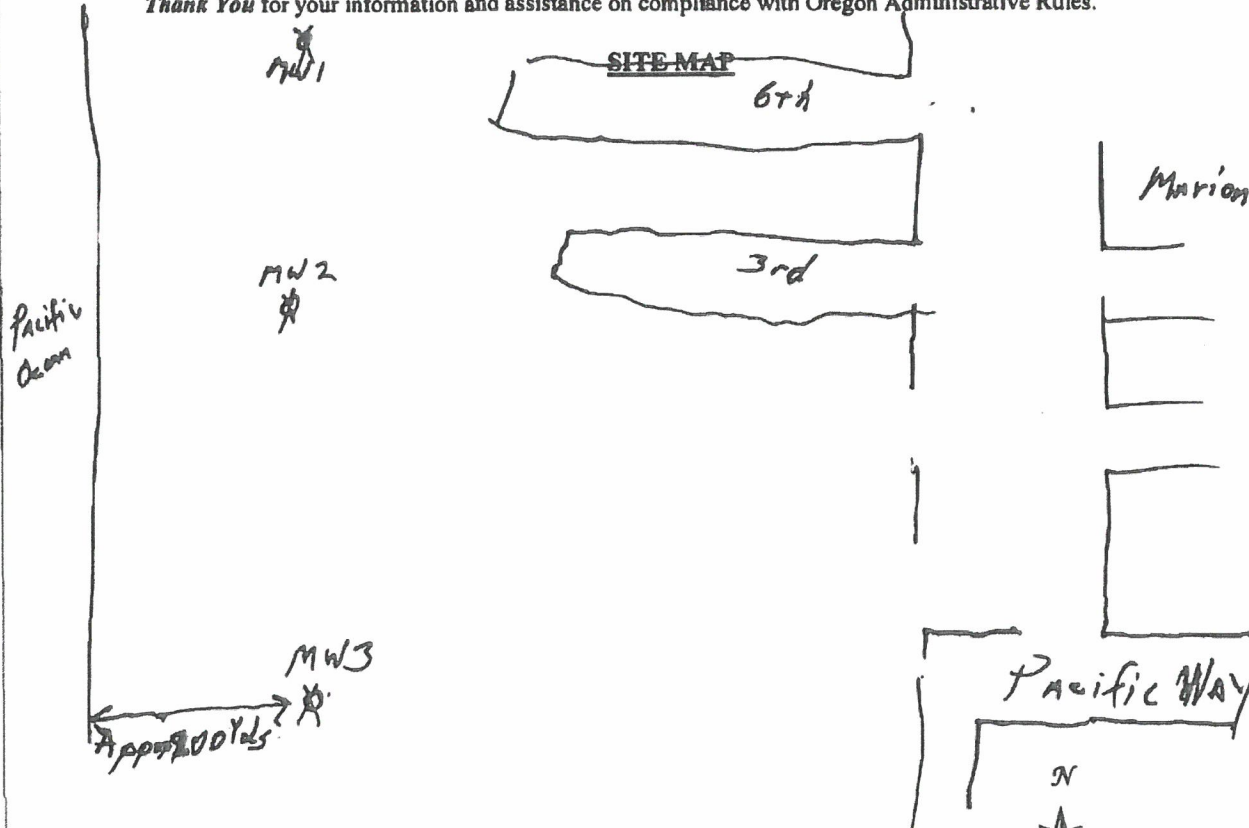
Oregon Water Resources Department (OWRD) requires completion of a Geotechnical Hole Report if any of the following apply:

- Geotechnical hole is greater than 18 feet deep;
- Within 50 feet of a water supply or monitoring well;
- Used to make a determination of water quality;
- Constructed in an area of known or reasonably suspected contamination.

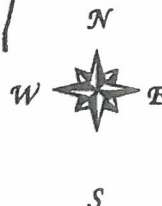
In order to comply with OWRD requirements, please provide a Site Map:

Map shall include an approximate scale of north arrow. Upon completion of well activities, a site map with each well location identified must be filed with each Geotechnical Hole Report (OR 690-240-035).

Thank You for your information and assistance on compliance with Oregon Administrative Rules.

Site Address: OCEAN BEACH NEAR GEARHART, ORClient: GOLDER

Date: _____

**RECEIVED**

JAN 06 2010

WATER RESOURCES DEPT
SALEM, OREGON

CLAT 53145

CLAT 53145



RECEIVED

JAN 06 2010

WATER RECORDS DEPT

46°01'34.87" N 123°55'21.66" W

elev. 25 ft

Sep 7 2004

Eye alt. 4033 ft

CLAT 53145

City of Gearhart - Water Supply Project
Monitoring Well Specs and Locations

Well ID.	WRD ID.	GPS Location ^(a)	Township, Range, Section	General Location	Well Depth (feet) ^(b)	Total LOC ^(c)	Screen Interval	Water Level ^(d)	Monument	Monitoring Parameters (Intervals)			
										Water Level	Chloride	TDS	Temperature
MW-1	CLAT 53145	N 46 01 459 W 123 55 702	T6N, R10W, Section 4 SW1/4 of SE1/4	west of Pacific Way	165	-168	150-185	~30	above ground	2 hr	2 hr	2 hr	Specific Conductivity
MW-2	CLAT 53148	N 46 01 573 W 123 55 693	T6N, R10W, Section 4 SW1/4 of SE1/4	west of 3rd Street	163.5	-165	163.5-148.5	29.67	above ground	2 hr	2 hr	2 hr	
MW-3	CLAT 53147	N 46 01 735 W 123 55 687	T6N, R10W, Section 4 NW1/4 of SE1/4	west of 7th Street	119	-122	119-104	31.45	above ground	2 hr	2 hr	2 hr	
MW-4	CLAT 53148	N 46 01 580 W 123 55 432	T6N, R10W, Section 4 SE1/4 of SE1/4	NE corner 3rd Street & Marion	45	43.15	45-30	29.30	flush	2 hr			
MW-5	CLAT 53149	N 46 01 802 W 123 55 221	T6N, R10W, Section 3 SW1/4 of SW1/4	west side of Cottage Ave. b/w 3rd and 4th Avenue	40	40.4	40-25	17.5	flush	2 hr			
MW-6	CLAT 53150	N 46 01 323 W 123 54 820	T6N, R10W, Section 3 SW1/4 of SW1/4	west side of Summit Ave. ~50 ft north of 176 Summit Ave.	45	44.43	45-30	32.15	flush	2 hr			
SW-MS1	na	N 46 01 451 W 123 55 009	T6N, R10W, Section 3 SW1/4 of SW1/4	Pacific Way & Neacoxie Creek	surface water	na	na	na	na	15 minutes	15 minutes	15 minutes	15 minutes

Notes:

(a) - GPS data ref. WGS 84 map datum

(b) - Top - foot below ground surface

(c) LOC - total length of PVC casing

(d) water levels measured at top of PVC casing

RECEIVED

JAN 06 2010

WATER RESOURCES DEPT
SALEM, OREGON

CLAT 53146

CLAT 53146

WELL I.D. # L 98882

Page 2 of 2

11-11-2008

START CARD # 1005440

MONITORING WELL REPORT -

Map with location identified must be attached and shall include an approximate scale and north arrow

Map of well



Cascade Project No.

P08377

Oregon Water Resources Department (OWRD) requires completion of a Geotechnical Hole Report if any of the following apply:

- Geotechnical hole is greater than 18 feet deep;
- Within 50 feet of a water supply or monitoring well;
- Used to make a determination of water quality;
- Constructed in an area of known or reasonably suspected contamination.

In order to comply with OWRD requirements, please provide a Site Map:

Map shall include an approximate scale of north arrow. Upon completion of well activities, a site map with each well location identified must be filed with each Geotechnical Hole Report (OR 690-240-035).

Thank You for your information and assistance on compliance with Oregon Administrative Rules.

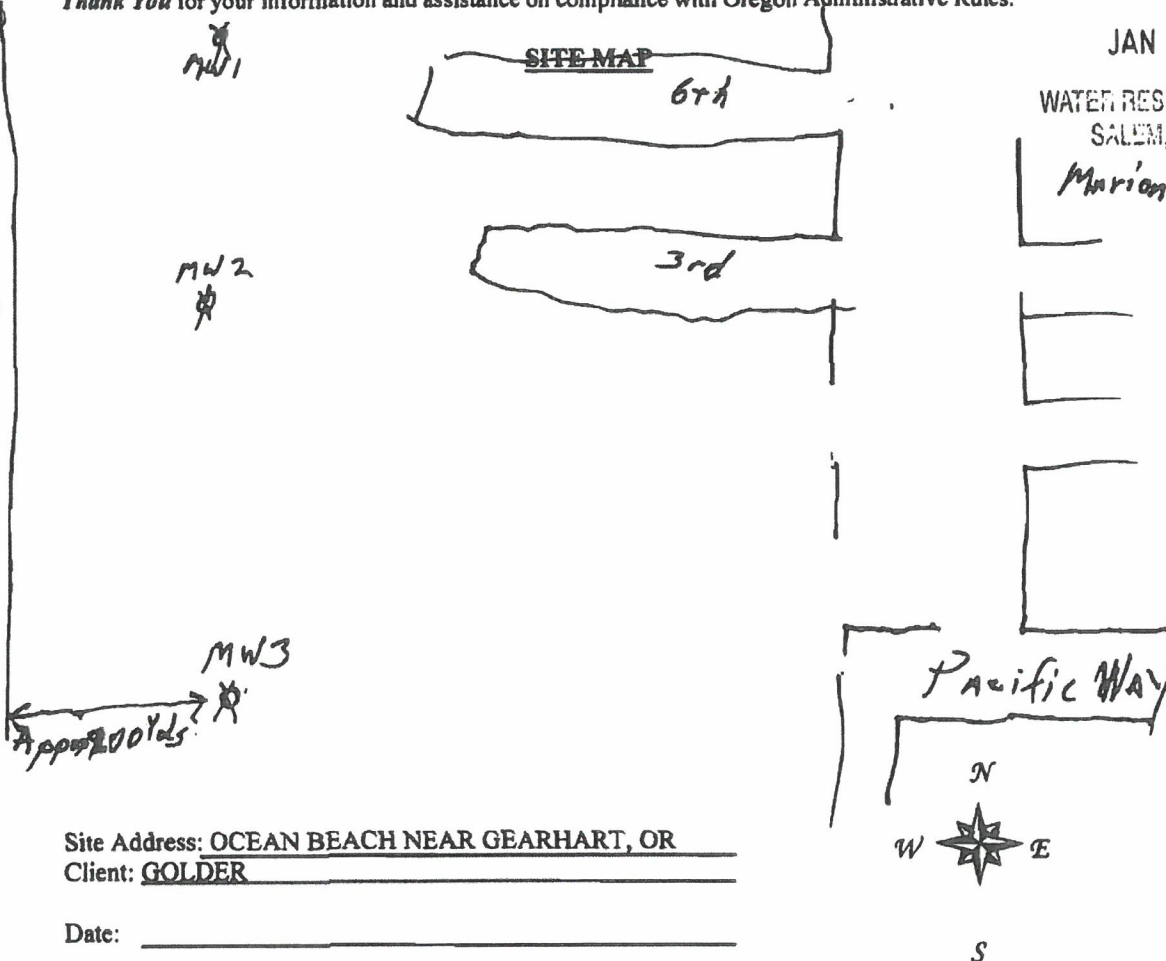
RECEIVED

JAN 06 2010

WATER RESOURCES DEPT
SALEM, OREGON

Marion

Pacific Ocean



Site Address: OCEAN BEACH NEAR GEARHART, OR

Client: GOLDER

Date:

CLAT 53146



CLAT 53146

City of Gearhart - Water Supply Project
Monitoring Well Specs and Locations

Well I.D.	WRO I.D.	GPS Location ^(a)	Township, Range, Section	General Location	Well Depth (feet) ^(b)	Total LOC ^(c)	Screen Interval	Water Level ^(d)	Monument	Monitoring Parameters (Intervals)			
										Water Level	Chloride	TDS	Temperature
MW-1	CLAT 53145	N 46 01.458 W 123 55.702	T8N, R10W, Section 4 SW1/4 of SE1/4	west of Pacific Way	165	-168	150-165	-30	above ground	2 hr	2 hr	2 hr	
MW-2	CLAT 53146	N 46 01.573 W 123 55.683	T8N, R10W, Section 4 SW1/4 of SE1/4	west of 3rd Street	163.5	-165	163.5-148.5	29.67	above ground	2 hr	2 hr	2 hr	
MW-3	CLAT 53147	N 46 01.735 W 123 55.687	T8N, R10W, Section 4 NW1/4 of SE1/4	west of 7th Street	119	-122	119-104	31.45	above ground	2 hr	2 hr	2 hr	
MW-4	CLAT 53148	N 46 01.580 W 123 55.432	T8N, R10W, Section 4 SE1/4 of SE1/4	NE corner 3rd Street & Mainon	45	45.15	45-30	29.30	flush	2 hr			
MW-5	CLAT 53149	N 46 01.902 W 123 55.231	T8N, R10W, Section 3 SW1/4 of SW1/4	west side of Cottage Ave. b/w 3rd and 4th Avenue	40	40.4	40-25	17.5	flush	2 hr			
MW-6	CLAT 53150	N 46 01.523 W 123 54.980	T8N, R10W, Section 3 SW1/4 of SW1/4	west side of Summit Ave. ~50 ft north of 176 Summit Ave.	45	44.43	45-30	32.15	flush	2 hr			
SW-MS1	na	N 46 01.451 W 123 55.009	T8N, R10W, Section 3 SW1/4 of SW1/4	Pacific Way & Neacozie Creek	surface water	na	na	na	na	15 minutes	15 minutes	15 minutes	15 minutes

Notes:
(a) - GPS data in WGS 84 map datum
(b) Depth - feet below ground surface
(c) LOC - total length of PVC casing
(d) water levels measured at top of PVC casing

RECEIVED
JAN 06 2010
WATER RESOURCES DEPT
SALEM, OREGON