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SKAGIT COUNTY
PDS

September 28, 2016
Project No. 1268.02.01

Stephen Taylor
McLucas & Associates, Inc.
P.O. Box 5352
Lacey, Washington 98509

Re: Hydrogeologic Site Assessment Report
Lake Erie Pit Expansion
Skagit County, Washington

Dear Mr. Taylor:

Maul Foster & Alongi, Inc. (MFA) has prepared this hydrogeologic assessment to support a special use permit application for the expansion of the Lake Erie Pit mine located at 13540 Rosario Road near Anacortes, Washington (the Mine or Site) (see Figure 1). The Mine is located within section 11, township 34 north, range 1 east in Skagit County, Washington. The Mine currently operates on the following tax parcels; P19108, P19162, and P19165, and its owner and operator, Pit 1, LLC (Pit 1), wishes to expand operations to include the following tax parcels; P19161, P19164, P19158, P90028, and P19155 (collectively, "the Property"). The Mine and Property are owned Pit 1. The Mine, as discussed in this report, comprises the existing permitted parcels and the proposed expansion parcels. The Skagit County Planning and Development Services requires a hydrogeologic assessment of the Mine to be conducted as part of the mining special use permit application and in accordance with Skagit County Code (SCC) 14.16.440(8)(b).

BACKGROUND

Pit 1 is applying for a mining special use permit from Skagit County for the development of the following tax parcels as a surface mine for aggregate resources: P19161, P19164, P19158, P90028, and P19155. The currently permitted and expansion parcels are zoned as Rural Resource-Natural Resource Lands (RRc-NRL) (see Figure 2).

The Mine will be dry mined using standard surface mining equipment (i.e., front end loaders and excavators). The mined aggregate will be loaded into trucks and transported off the Property. The maximum floor depth of the Mine is proposed to be no lower than 250 feet mean sea level (msl) and will not go below 10 feet above the seasonal high groundwater table beneath the Property.

SITE AND VICINITY CONDITIONS

The Mine is located in an upland area on Fidalgo Island approximately two miles south-southeast of Anacortes, Washington. The topography of the Mine slopes downward to the northeast toward Lake Erie and ranges in elevation from approximately 240 feet msl along the northeast boundary of the proposed expansion area to approximately 340 feet msl in the south portion of the proposed expansion area (see Figure 2). The Mine is accessed from Rosario Road; the entrance is approximately 0.13 mile east of Marine Drive (Figure 2).

Mean annual precipitation at the Site is approximately 26 inches per year based on the 30-year period from 1981 to 2010 in the Parameter-Elevation Relationships on Independent Slopes Model (PRISM, Daly and others, 1994).

Surface Soils

Soils in Skagit county were mapped by the Natural Resource Conservation Service (NRCS) in the 1980s (NRCS, 1989). Site soils are mapped as predominantly Catla gravelly fine sandy loam, Keystone loamy sand, and Laconner very gravelly loamy sand (see Figure 3). The Catla gravelly fine sandy loam is characterized as being moderately well drained, a very low to moderately low capacity to transmit water, and very low water storage. The Keystone loamy sand is characterized as excessively drained, high to very high capacity to transmit water, and low water storage. The Laconner very gravelly loamy sand is characterized as being moderately well drained, very low to moderately low capacity to transmit water, and very low water storage. Mapped soils at the Mine have no frequency of flooding or ponding (NRCS, 1989).

Geology

Detailed descriptions of the surficial and subsurface geology of the Site and vicinity are presented in a map completed by the U.S. Geological Survey (Miller and Pessel, 1986). The geology of the Site consists predominantly of Fraser-age continental glacial till (Qgt) and Fraser-age continental glacial outwash (Qgas and Qgos). These unconsolidated deposits are part of the Vashon Stade. The Qgt is the predominant geologic unit present at the ground surface at the Mine (see Figure 4). The Qgas is exposed at the ground surface in the northwest portion of the Mine and the Qgos is exposed at the ground surface in the southwest portion of the Mine. These deposits are typically comprised of boulders, cobbles, pebbles, sand, silt, and clay in a poorly sorted mixture. Well logs in the vicinity of the mine indicate these deposits can exceed 300 feet thick.

Jurassic-age Fidalgo ophiolite outcrops (Ji[f]) are present in the west portion of the Mine (see Figure 4). This formation extends to the west of the Mine and comprises the coastal bluff west of Rosario Road. Based on nearby outcrops of the Fidalgo ophiolite to the north and east of the Mine, it is inferred that this formation underlies the unconsolidated sediments at the Mine.

Hydrogeology

A review of water well reports obtained from the Washington State Department of Ecology online well log database and/or the Skagit County well record database indicates that wells in the surrounding area are completed either in glacial sediment or in bedrock. The locations of water wells within a one-mile radius of the Mine are shown in Figure 5. The water well reports and a table summarizing well details are included as Attachment A. The well reports indicate that groundwater is typically present in the sand and gravel units of Qgt. Depths to groundwater vary from 9 to 264 feet below ground surface (bgs) and average 107 feet bgs. Resulting groundwater elevations range from 239 feet msl to 60 feet msl. Groundwater appears to be present in an unconfined aquifer. To evaluate the groundwater flow direction and the hydraulic gradient beneath the Site, groundwater surface contours were developed from the static water levels indicated on the water well reports for wells completed in the alluvial sediments. The inferred groundwater surface in the vicinity of the Mine is presented in Figure 6.

Groundwater Flow

The groundwater level information and Site topography indicate that groundwater beneath the Mine flows to north and northeast (see Figure 6). The area south of the Mine is a topographic high and is likely an area of recharge. Further, this area contains a small water lake (locally known as Devil's Elbow Lake). This lake likely provides some recharge to the aquifer in addition to surface infiltration from precipitation. The inferred groundwater surface indicates that the aquifer discharges to the northeast of the Mine in Lake Erie, which is approximately 1,000 feet downgradient from the Mine.

Based on the inferred groundwater surface and the projection of nearby wells, cross sections were developed to illustrate the approximate depth to groundwater beneath the mine (see Figures 7 and 8). These cross sections were aligned in a north-south and east-west orientation (see transects on Figure 6). The groundwater surface beneath the Mine is inferred to be approximately at 180 to 230 feet msl. This elevation is approximately 20 to 70 feet below the planned mining elevation of 250 feet msl.

Aquifer Properties

The estimated groundwater flow direction and hydraulic gradient for groundwater flowing through the area was calculated based on information derived from water well reports and the inferred groundwater surface (see Figures 5 and 6). The groundwater flow direction in the Mine area is interpreted to be generally from south to north and northeast toward Lake Erie. A smaller groundwater flow component appears to be to the north-northwest. Groundwater was estimated to flow at an average hydraulic gradient of approximately 0.036 foot per foot (ft/ft).

Hydraulic conductivity for the alluvial aquifer was estimated by evaluating specific capacities of nearby domestic wells. Although long-term aquifer tests were not performed on the nearby water wells, several of the wells were tested (by means of a drill stem test) for at least a few hours; the yield and maximum drawdown were recorded on the water well reports. The yield of the well divided by the drawdown result in the specific capacity of the well. Typical units are cubic feet per day per foot of drawdown (ft³/day/ft). As such, transmissivity (and ultimately hydraulic conductivity) was estimated using specific capacity for several wells according to the method by Razack and Huntley (1991). Transmissivity is calculated using the following equation:

$$T = 33.6 \left(\frac{Q}{h_o - h} \right)^{0.67}$$

Where:

T = transmissivity (ft²/day)
 Q = pumping rate of the well (ft³/day)
 $h_o - h$ = drawdown (ft)

The hydraulic conductivity of the aquifer can then be estimated using the calculated transmissivity in the following equation:

$$K = \frac{T}{b}$$

Where:

K = hydraulic conductivity (ft/day)
 b = aquifer thickness (ft)

Using the well test data from select water well reports, the hydraulic conductivities of groundwater in the alluvial aquifer was estimated for select wells. Table 1 summarizes the results of this analysis. Based on the analysis, the geometric mean of transmissivity and hydraulic conductivity for the alluvial aquifer is calculated to be approximately 429 feet squared per day (ft²/day) and 48 feet per day (ft/day), respectively. Porosity of the glacial unconsolidated sediments can range from 20 to 35 percent (Fetter, 1980). Groundwater velocities likely range from 4.9 to 8.6 ft/day.

Groundwater Quantity

The potential for adverse impacts to groundwater quantity beneath the Mine is very low. There are no new water supply wells currently proposed for the mining operation, although it

is possible that water right exempt quantities of groundwater may be used at the Site for industrial and/or domestic (i.e., drinking water) in the future. The source of this water is most likely the existing well owned by the Lake Erie Shop LLC and located in Parcel No. P19102 north of Rosario Road (i.e., Wooding Well). The proposed mine expansion will create a closed depression and stormwater generated on Site will be captured within the Mine and infiltrated into the subsurface. This would likely result a negligible effect on groundwater recharge at the Site and in groundwater levels in nearby wells.

Skagit County designates Lake Erie in SCC 14.24.340(3)(c)(vii) as a “surface water source limited stream” with a 1/2-mile stream buffer that passes through the Mine (see Attachment B). However, because the Mine will not be generating any additional water and stormwater will be contained within the Mine boundary, the proposed mine expansion is exempt from any mitigation measures according to SCC 14.24.340(3)(d).

Skagit County also identified nearby Group B well systems (see Attachment B). One of these systems is located downgradient of the Mine. Because no groundwater withdrawals are planned with the proposed mine expansion, the downgradient Group B wells will not be impacted.

The Dodson Canyon Spring, which is a natural discharge point, is located cross-gradient from the Mine approximately 400 feet west of the southwest property boundary. The Dodson Canyon Spring was formerly used to supply water for the Del Mar Community Service water system and was classified as a Group A well system by Skagit County (see Attachment B); however, the Del Mar Community Service water system has not used the Dodson Canyon Spring as a source of water since 2007. Further, the water right associated with the spring has been placed into the Ecology Trust Water Right Program (see Attachment C).

Skagit County mapped unstable slopes and unstable recent slides to the northwest and west of the Mine. These features are located along the steep slopes of the bluffs west of Rosario Road (see Attachment B). Because the Mine will not be generating any additional water and that all stormwater will be contained within the Mine boundary, groundwater flow beneath the proposed mine expansion should have no effect on nearby slope stability.

Groundwater Quality

The potential risk to groundwater quality under the proposed mine expansion is very low. The proposed mine expansion will maintain a minimum 10-foot buffer of natural material between the mine floor and typical seasonal high groundwater table at all times. The proposed mine expansion is for a surface mining operation with on-site processing limited to stock piles and dry screening. Standard surface mining equipment such as front end loaders and excavators will be used to extract the material and load it on to trucks. The proposed

mine expansion will create a closed topographic depression. Stormwater generated on Site will be captured within the mine boundary and infiltrated. Stormwater management will be conducted in accordance with State of Washington Department of Ecology's National Pollutant Discharge Elimination System (NPDES) Sand and Gravel General Permit. Fueling and maintenance of all on-site equipment will be conducted using mobile services under an approved spill control plan. No permanent fueling or maintenance facilities are proposed for the mine.

CONCLUSIONS AND RECOMMENDATIONS

This hydrogeologic assessment was prepared to address the requirements for special use permit application under SCC 14.16.440(8)(b). Groundwater beneath the Mine is inferred to flow north-northeast and ultimately to discharge to Lake Erie, which is approximately 1,000 feet in an inferred downgradient direction from the Mine. Groundwater is inferred to be approximately 20 to 30 feet below the planned mining depth of the Mine. The proposed mine expansion is for a dry, surface mining operation, with limited on-site processing. Groundwater withdrawals are not planned for the Mine and stormwater generated on the Site will be captured within the Mine and infiltrated into the subsurface. Inferred downgradient wells will likely not be impacted.

MFA recommends that for operations and reclamation, Pit 1 includes Washington State Department of Natural Resources Best Management Practices for ensuring stormwater is not contaminated during the mining process.

Sincerely,

Maul Foster & Alongi, Inc.



THOMAS F. MULLEN

Thomas F. Mullen, LEG, LHG
Senior Hydrogeologist

Stephen Taylor
September 28, 2016
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Project No. 1268.02.01

Attachments: Limitations
References
Table
Figures
Attachment A—Well Report Summary
Attachment B—Skagit County Maps
Attachment C—Ecology Records

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

REFERENCES

Daly, C., R.P. Neilson, and D.L. Philips, 1994. A statistical-topographical model for mapping climatological precipitation over mountainous terrain. *Journal of Applied Meteorology*, v. 33. Pp 140-58.

Fetter, C.W., 1980. *Applied hydrogeology*. Charles E. Merrill Publishing Co. Columbus, OH.

Miller, R.D. and F. Pessel, Jr., 1986. Map showing unconsolidated deposits grouped on the basis of texture, Port Townsend 30' x 60' Quadrangle, Puget Sound region, Washington. USGS Miscellaneous Investigations Series, Map I-1198-D, scale 1:100,000.

NRCS, 1989. Soil survey of Skagit County Area, Washington. U.S. Department of Agriculture, Soil Conservation Service, September.

Razack, M. and D. Huntley. 1991. Assessing transmissivity from specific capacity in a large heterogeneous alluvial aquifer. *Ground Water*. v. 29, no. 6, pp. 856–861.

TABLE



**Table 1
Hydraulic Conductivity Calculations**

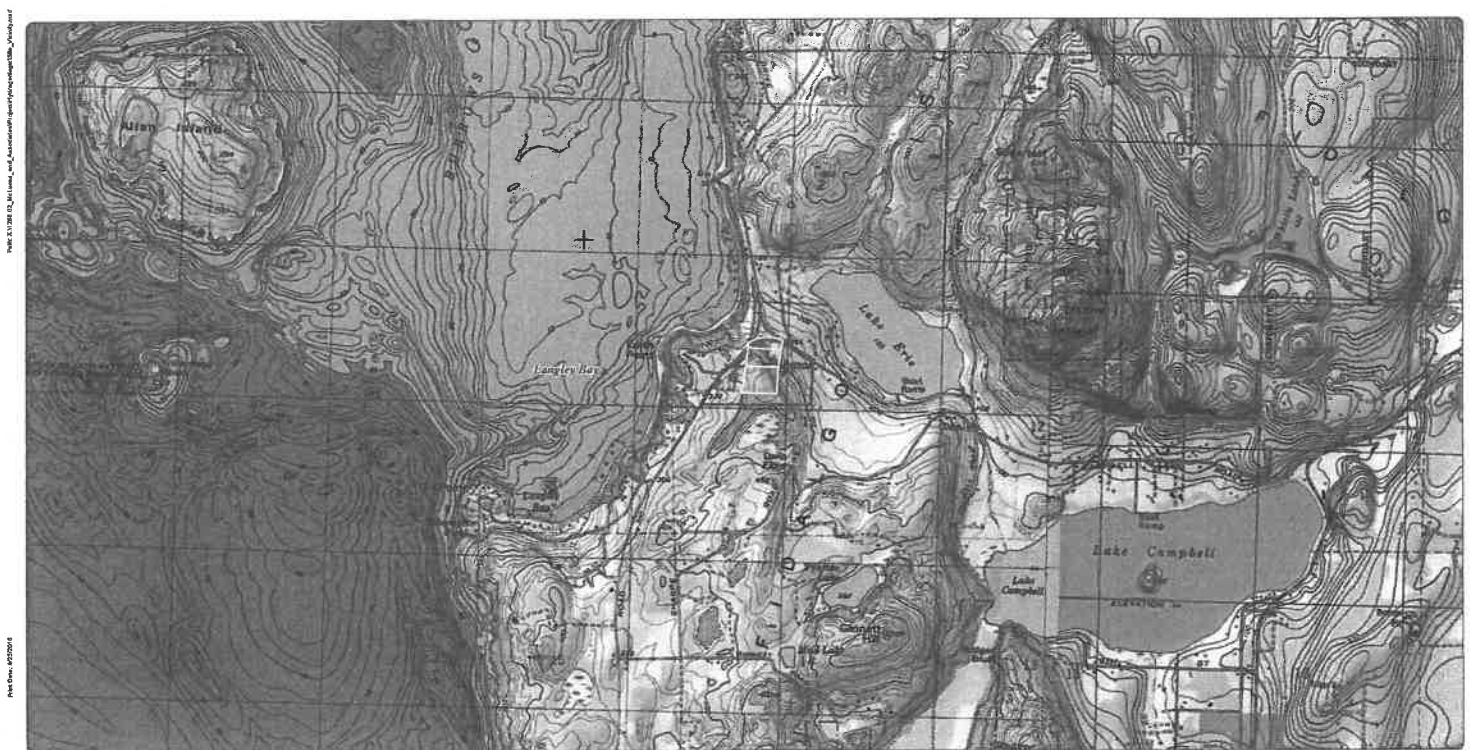
Ecology Well ID	Skagit County Parcel No.	Water Bearing Formaton ¹	Yield (gpm)	Yield (cfd)	SWL (ft)	Aquifer Top Depth (ft)	Aquifer Bottom Depth (ft)	Total Depth (ft)	Aquifer Thickness (ft)	Drawdown (ft)	Transmissivity (ft ² /day)	Hydraulic Conductivity (ft/day)
74758	P19191	Fine Sand	10	1925	120	296	346	346	50	20	717	14.3
-	P19127	Sand	4	770	35	55	71	71	16	25	334	20.9
533972	P109020	Sand	1	193	196	196	218	220	22	24	136	6.2
416706	P19153	Sand	2	385	130	260	264	280	4	125	71	17.8
77468	P19105	Sand	2	385	26	25	50	178	25	12	343	13.7
303986	P64653	Fine Sand	0.5	96	264	265	292	292	27	28	77	2.8
77773	P113556	Sand & Gravel	5	963	75	77	80	85	3	1	3351	1117
-	P19140	Gravel	30	5775	135	222	225	225	3	90	546	182
-	P108998	Sand & Gravel	1	193	183	190	283	300	93	67	68	0.7
79194	P19493	Sand	9	1733	124	134	141	154	7	9	1140	163
79203	P109020	Sand	5	963	25	33	35	55	2	10	717	358
-	P82072	Gravel	10	1925	245	325	334	392	9	85	272	30.2
-	P19147	Sand	7.5	1444	184	206	226	231	20	1	4398	220
371064	P19207	Sand	4	770	19	26	29	31	3	7	784	261
342743	P19138	Sand & Gravel	8	1540	9	20	25	25	5	9	1054	211
424849	P19111	Fine Sand	5	963	55	92	96	96	4	20	450	113
86745	P109154	Sand	5	963	100	213	216	216	3	70	195	64.8
342743	P19138	Sand	1	193	97	136	147	176	11	38	100	9.1
-	P19172	Fine Sand	6	1155	146	176	179	179	3	1.5	2886	962
303985	P19130	Sand	1	193	60	65	73	73	8	8	283	35.4
374869	P19106	Fine Sand	5	963	55	59	77	77	18	8	832	46.2
256201	P64851	Fine Sand	7	1348	16	160	170	170	10	80	223	22.3
		Minimum	0.5							Minimum	68	0.7
		Maximum	30							Maximum	4398	1117
		Mean	6							Mean	863	176
		Geometric Mean	4							Geometric Mean	429	47.9

Notes:

- = not available.
- gpm = gallons per minute.
- cfd = cubic feet per day.
- ft = feet.
- ft²/day = square feet per day.
- ft/day = feet per day.
- SWL = static water level.
- Transmissivity calculated using the method by Razack and Huntley (1991).
- ¹Formations as indicated on water well reports.

FIGURES





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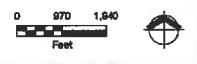
Source: USGS Quadrangle maps obtained from Esri ArcGIS Online

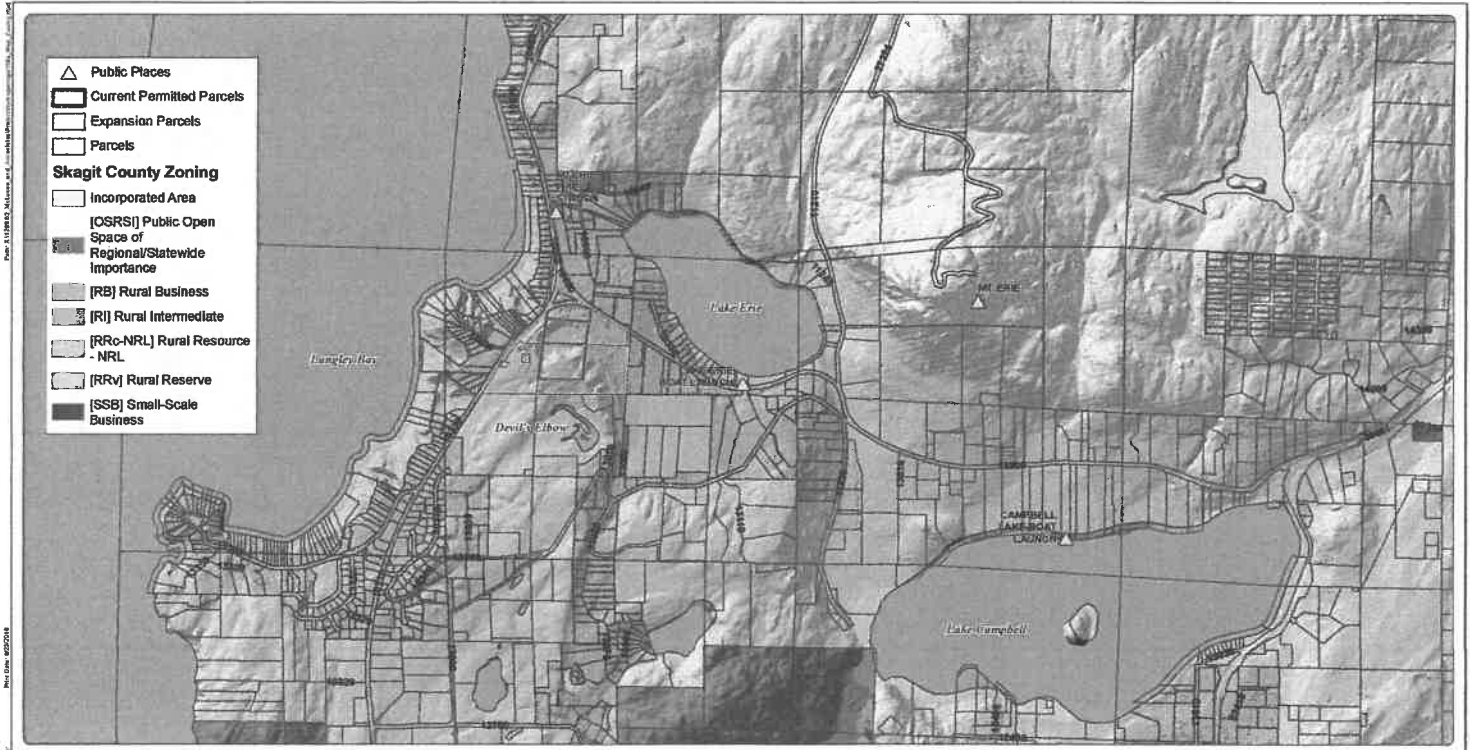
Current Permitted Parcels
 Expansion Parcels

DRAFT Figure 1
Site Vicinity
 Lake Erie Pit Mine
 Anacortes, Washington

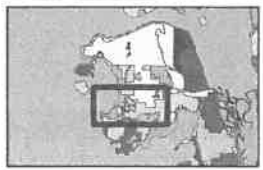
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Source: Skagit County Zoning

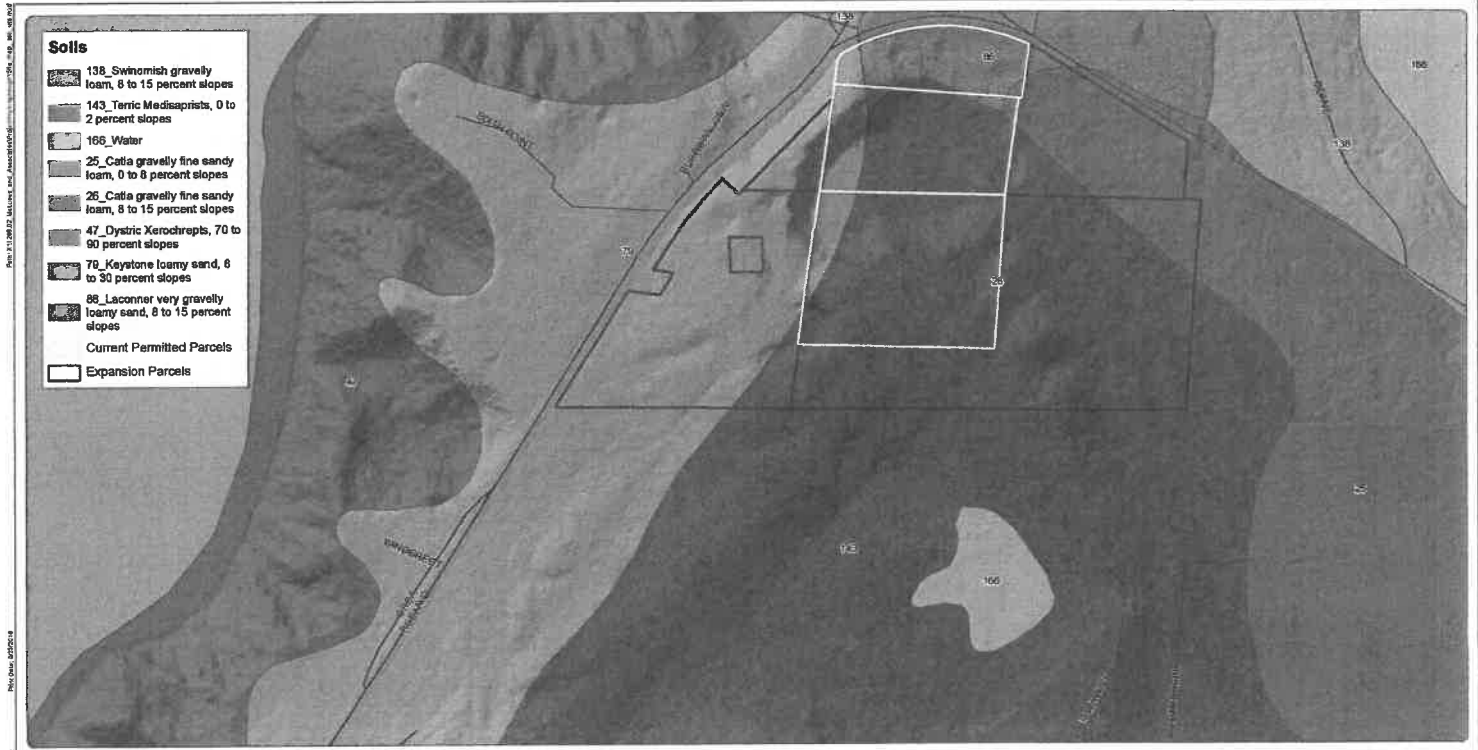


DRAFT Figure 2
Skagit County Zoning
 Lake Erie Pit Mine
 Anacortes, Washington

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- Soils**
- 138_Swinomish gravelly loam, 8 to 15 percent slopes
 - 143_Terric Medisapristis, 0 to 2 percent slopes
 - 166 Water
 - 25_Catia gravelly fine sandy loam, 0 to 8 percent slopes
 - 26_Catia gravelly fine sandy loam, 8 to 15 percent slopes
 - 47_Dystric Xerochrepts, 70 to 90 percent slopes
 - 78_Keystone loamy sand, 8 to 30 percent slopes
 - 88_Laconner very gravelly loamy sand, 8 to 15 percent slopes
- Current Permitted Parcels
- Expansion Parcels

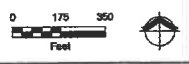
Source: Aerial photograph obtained from Esri ArcGIS Online

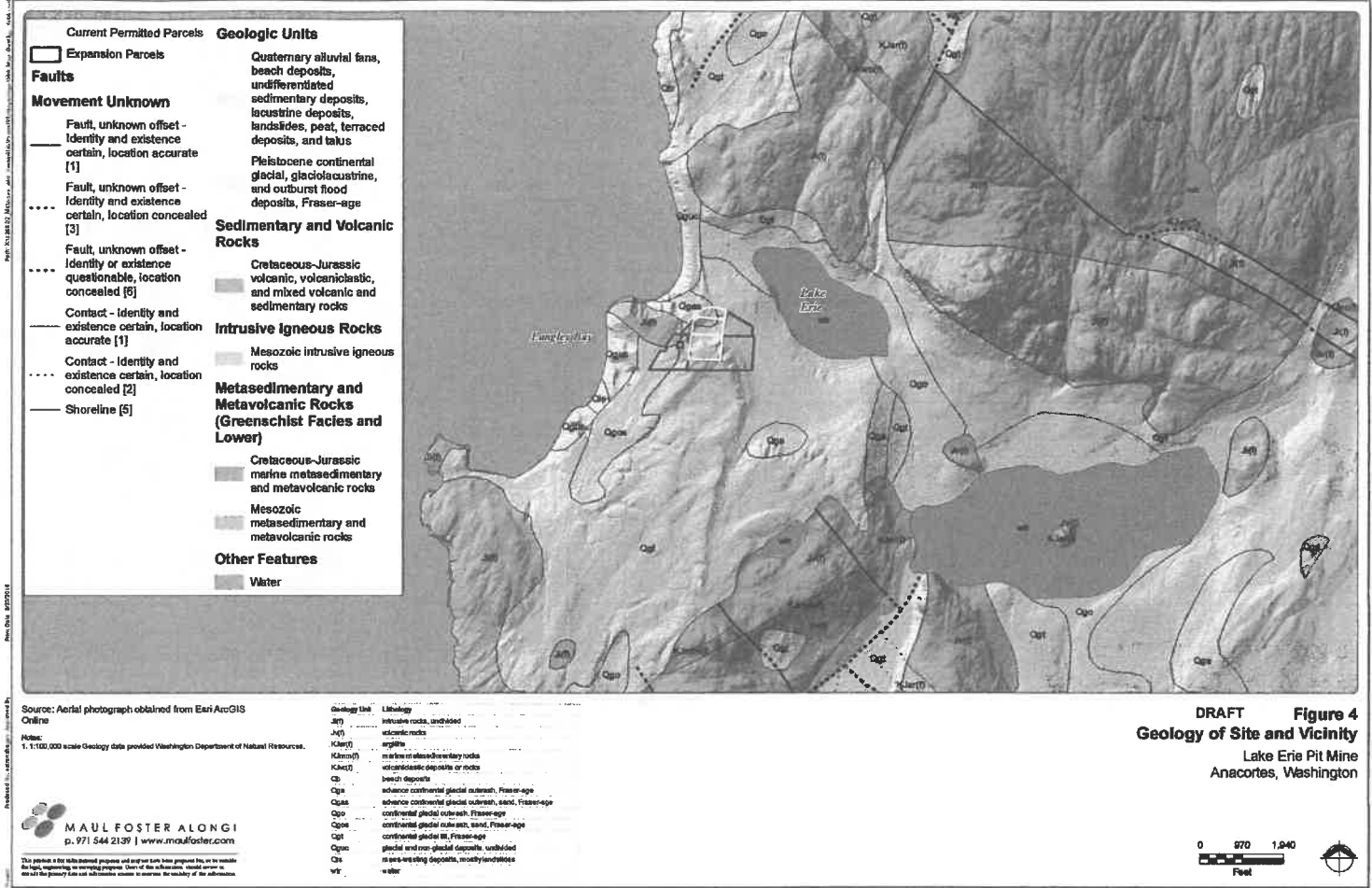
Notes:
1. Soil data provided by the National Resources Conservation Service.

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DRAFT Figure 3
NRCS Soil
Lake Erie Pit Mine
Anacortes, Washington





Current Permitted Parcels
 Expansion Parcels

Faults
Movement Unknown
 Fault, unknown offset - Identity and existence certain, location accurate [1]
 Fault, unknown offset - Identity and existence certain, location concealed [3]
 Fault, unknown offset - Identity or existence questionable, location concealed [5]
 Contact - Identity and existence certain, location accurate [1]
 Contact - Identity and existence certain, location concealed [2]
 Shoreline [5]

Geologic Units
 Quaternary alluvial fans, beach deposits, undifferentiated sedimentary deposits, lacustrine deposits, landslides, peat, terraced deposits, and talus
 Pleistocene continental glacial, glaciolacustrine, and outburst flood deposits, Fraser-age
Sedimentary and Volcanic Rocks
 Cretaceous-Jurassic volcanic, volcanoclastic, and mixed volcanic and sedimentary rocks
Intrusive Igneous Rocks
 Mesozoic intrusive igneous rocks
Metasedimentary and Metavolcanic Rocks (Greenschist Facies and Lower)
 Cretaceous-Jurassic marine metasedimentary and metavolcanic rocks
 Mesozoic metasedimentary and metavolcanic rocks
Other Features
 Water

Source: Aerial photograph obtained from Esri ArcGIS Online
 Scale: 1:110,000 scale Geology data provided Washington Department of Natural Resources.

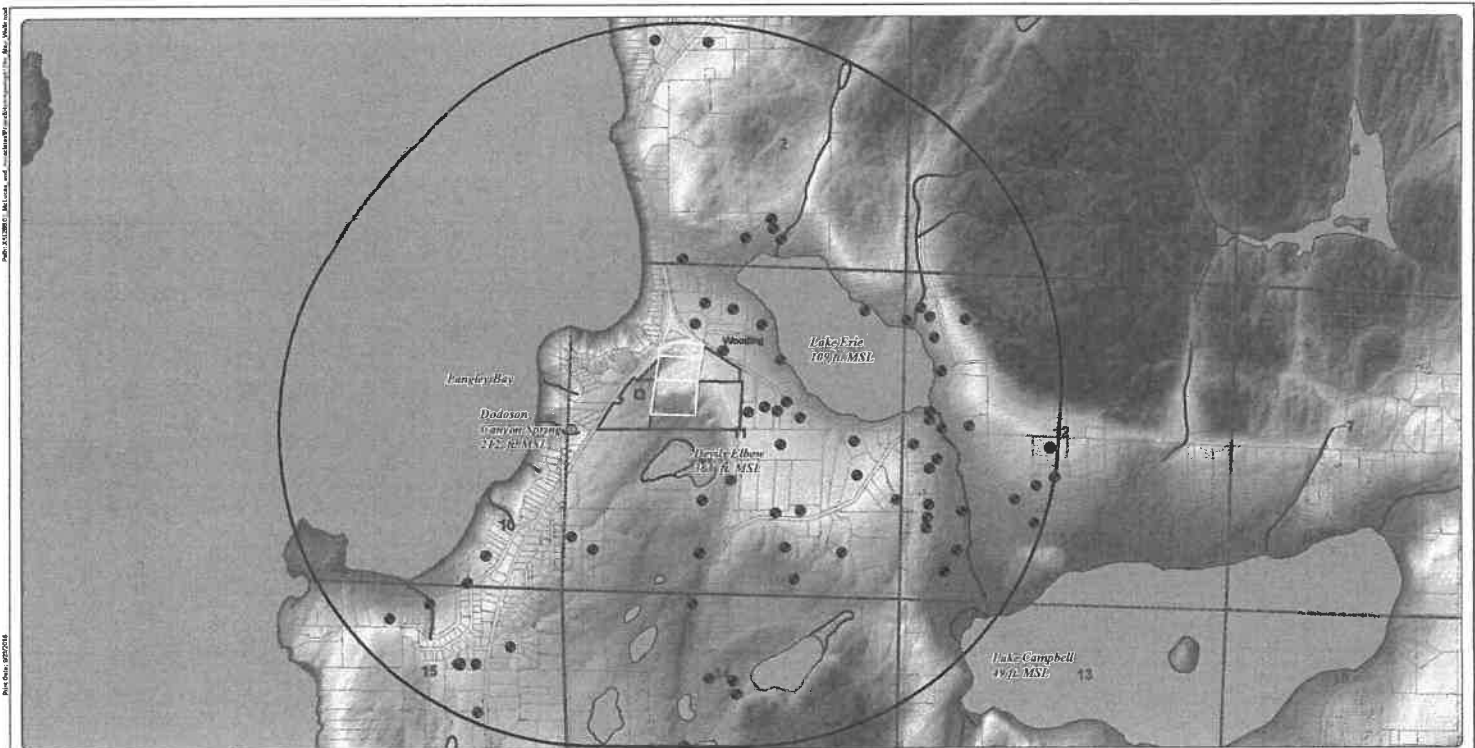
Geology Unit	Lithology
J(1)	intrusive rocks, undivided
J(4)	volcanic rocks
K(1a)	argillite
K(1b)	metasiltstone
K(1c)	metasiltstone
Qa	beach deposits
Qas	advance continental glacial outwash, Fraser-age
Qat	advance continental glacial outwash, stand, Fraser-age
Qat1	continental glacial outwash, Fraser-age
Qat2	continental glacial outwash, sand, Fraser-age
Qat3	continental glacial III, Fraser-age
Qat4	glacial and non-glacial deposits, undivided
Qat5	residual deposits, mostly landslides
W	water

DRAFT Figure 4
Geology of Site and Vicinity
 Lake Erie Pit Mine
 Anacortes, Washington



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Source: Aerial photograph obtained from Esri ArcGIS Online

Note:
1. MSL - Mean Sea Level.

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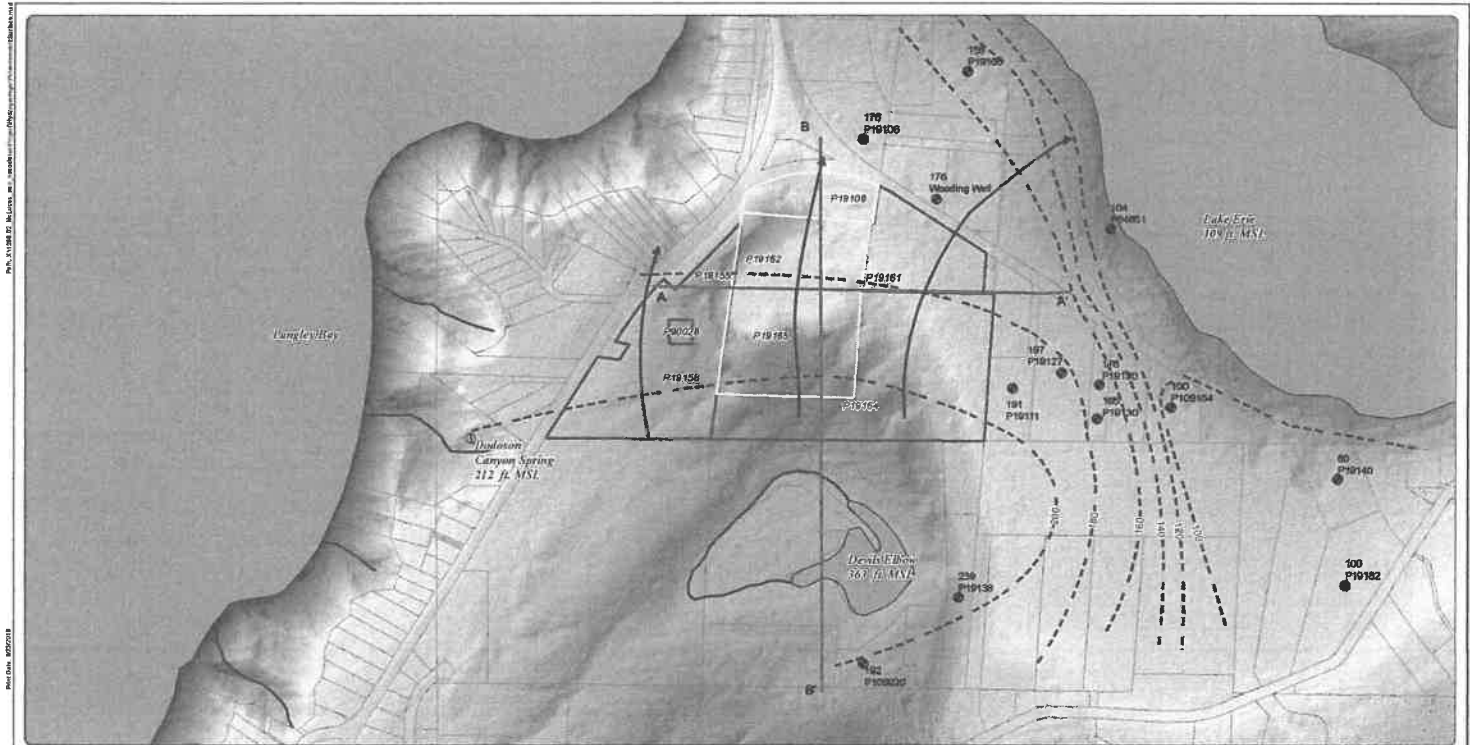
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Legend

- Wells
 - 1 Mile Buffer
 - ▭ Sections
 - ▭ Current Permitted Parcels
 - ▭ Expansion Parcels
 - ▭ Parcels
- Elevation (Feet MSL)**
Value
High : 1270.85
Low : -6.74899

DRAFT Figure 5
Vicinity Well Locations
Lake Erie Pit Mine
Anacortes, Washington





Source: Aerial photograph obtained from Esri ArcGIS Online
 Note:
 1. MSL = Mean Sea Level.

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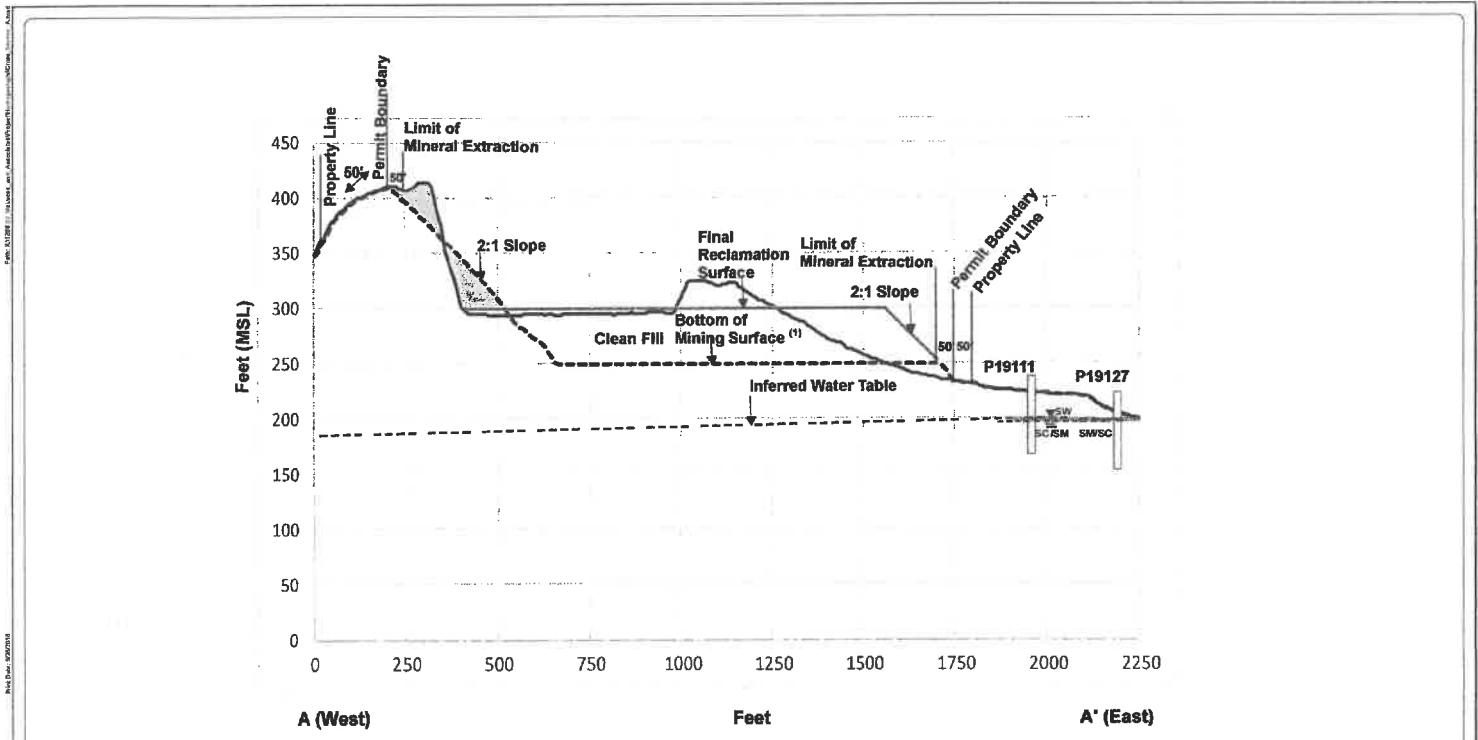
Legend

- Parcel #
- MSL
- Approximate Groundwater Elevation (MSL)
- Well
- Cross Section Transect
- Current Permitted Parcels
- Expansion Parcels
- Parcels
- Elevation (Feet MSL)
- Value
- High : 1270.8
- Low : -6.7


- - - Inferred Groundwater Surface Elevation Contour (MSL)
 → Inferred Groundwater Flow Direction

DRAFT Figure 6
Inferred Groundwater Surface
 Lake Erie Pit Mine
 Anacortes, Washington





Note:
⁽¹⁾ Mine to 10 feet Above Water Table

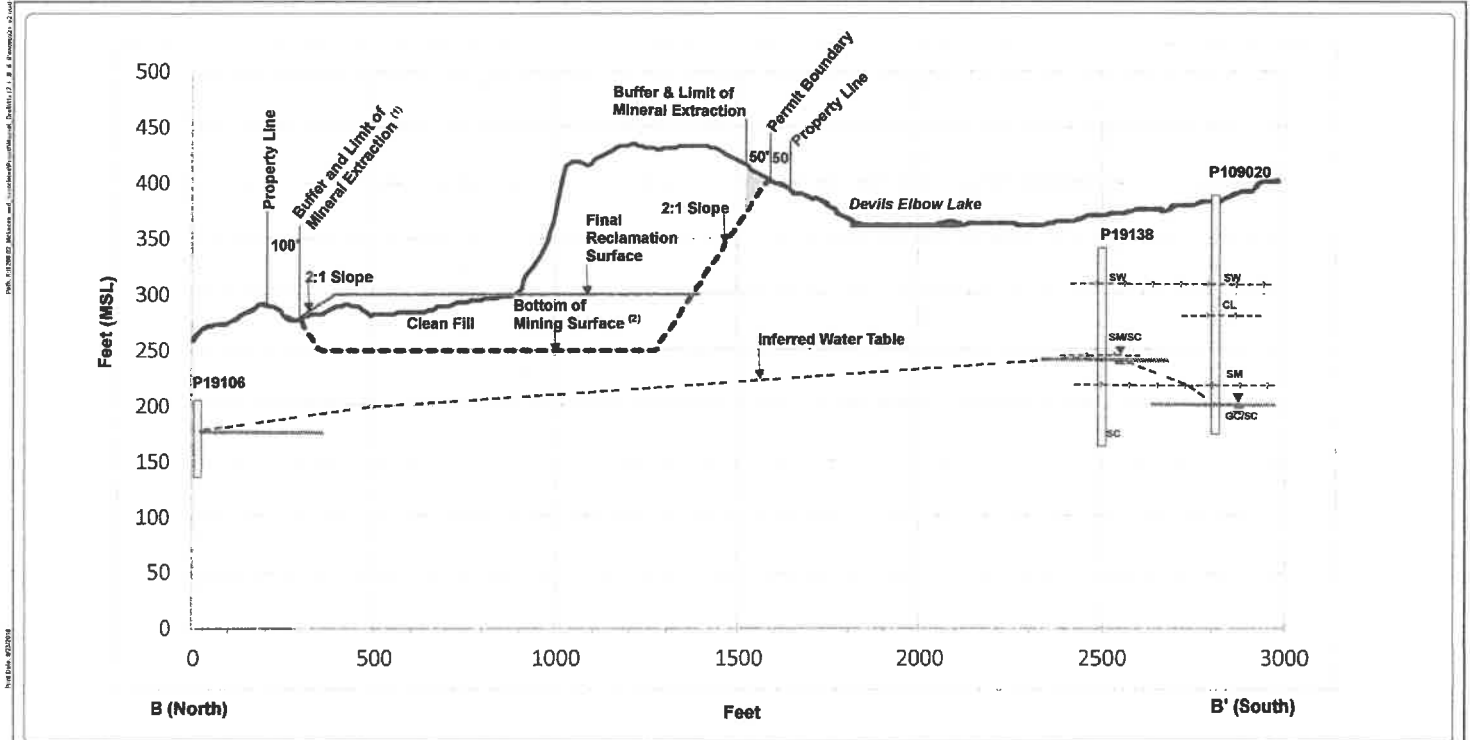
———— Existing Grade Boundary
 Area to be Regraded at Final Reclamation

DRAFT

Figure 7
A-A' Cross Section
 Lake Erie Pit Mine
 Anacortes, Washington

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Notes:
 (1) 100-ft setback to final reclamation surface is only applicable to Parcel 19106. All other parcels will maintain a 50-ft setback to final reclamation surface.
 (2) Mine to 10 Feet Above Water Table

———— Existing Grade Boundary
 - - - - Area to be Regraded at Final Reclamation

DRAFT Figure 8
B-B' Cross Section
 McLucas & Associates
 Anacortes, Washington

ATTACHMENT A

WELL REPORT SUMMARY



Attachment A Table
Water Well Report Summary

Ecology Well Log ID	Well Depth (ft)	Well Diameter (in)	Well Owner at Time of Drilling	Township North	Range East	Section	Quarter Section
--	255	6	Gene Landers	34	1	11	NE
--	260	6	JACK MAYER	34	1	11	SW
79203	45	6	JACK MAYER	34	1	11	SW
533972	220	6	CHRIS KRESGE	34	1	11	SE
86745	216	6	NORM BUKER	34	1	11	NE
77773	85	24	Eugene Landers	34	1	11	NE
77468	43	6	EARL HEISEY	34	1	11	NW
374869	77	6	THOMAS WILL	34	1	11	NW
424849	96	6	NELS STRANDBERG	34	1	11	NE
81000	200	6	LARRY GULICK	34	1	11	NE
--	89	68	CHARLES GATES	34	1	11	SE
303985	73	6	TIM MCCMASTER	34	1	11	NE
855674	255	6	KENNETH KILLPACK	34	1	11	SW
82163	25	6	MIKE STARK	34	1	11	SW
342743	141.6	6	PAM KOPKOWSKI	34	1	11	SW
77995	222	6	Fred Bresee	34	1	11	NE
79492	226	6	Jeff Ingstad	34	1	11	SW
76423	264	6	DARRYL SCHUETZ	34	1	11	NW
84130	179	6	SAM MADEJA	34	1	11	SW
74607	234	6	BARBARA BERST	34	1	11	NE
74758	346	6	BETTY RUMBALL	34	1	11	SE
533971	385	6	Dan Yount	34	1	11	SE

**Attachment A Table
Water Well Report Summary**

Ecology Well Log ID	Well Depth (ft)	Well Diameter (in)	Well Owner at Time of Drilling	Township North	Range East	Section	Quarter Section
371064	31	6	Ken Howard	34	1	11	NE
371063	72	6	Ken Howard	34	1	11	NE
79194	141	6	JACK KIDDER	34	1	11	NW
303986	292	6	Erie Wood	34	1	11	SE
416706	510	6	Jan Schultz	34	1	11	SW
256201	170	6	TOM STEVENS	34	1	11	NE
--	384	6	Jeff Bowman	34	1	11	NE

Attachment A Table
Water Well Report Summary

Quarter-Quarter Section	Well Completion Date	Skagit County Tax Parcel No.	Well Address	Water Level (ft below top of well)	Skagit County Well ID
SE	5/8/1995	P108998	268 Sharpe Road, Anacortes, WA 98221	183	SC Well ID: 3009
NE	8/24/1988	P109020	1379 Islewood Drive, Anacortes, WA 98221	180	SC Well ID: 2947
NE	9/1/1988	P109020	1379 Islewood Drive, Anacortes, WA 98221	25	SC Well ID: 2946
NW	6/16/2008	P109020	13562 Islewood Road, Anacortes, WA 98221	196	SC Well ID: 4777
NE	7/19/1995	P109154	13439 Rosario Road, Anacortes, WA 98221	100	SC Well ID: 2910
SE	9/18/1990	P113556	268 Sharpe Road, Anacortes, WA 98221	75	--
NE	9/19/1995	P19105	Wildwood Lane, Anacortes, WA 98221	26	--
NE	1/28/2004	P19106	13060 S WILDWOOD LN, ANACORTES 98221	55	SC Well ID: 3644
SW	10/31/2005	P19111	13507 Rosario Road, Anacortes WA 98221	55	--
NW	8/27/1987	P19125	1313 Deane Drive, Anacortes, WA 98221	78	--
NE	8/1/1968	P19127	13495 Rosario Road, Anacortes, WA 98221	35	SC Well ID: 2934
SW	5/3/2001	P19130	Lake Camble Road, Anacortes, WA 98221	60	--
NE	4/22/2013	P19130	13481 Rosario Road, Anacortes, WA 98221	49	--
NE	3/24/1976	P19138	Skagit County	9	SC Well ID: 2985
NE	2/7/2000	P19138	13718 Day Break Lane, Anacortes, WA 98221	97	--
SE	9/18/1990	P19140	297 Sharpe Road, Anacortes, WA 98221	135	SC Well ID: 2997
SW	11/10/1995	P19147	13893 Eaglecrest Lane, Anacortes, WA 98221	184	SC Well ID: 2979
NW	12/3/1987	P19153	1311 Wildwood Lane, Anacortes, WA 98221	130	Plots directly north of Pit
SW	1/7/1986	P19172	1382 Eagle Crest Lane, Anacortes, WA 98221	146	SC Well ID: 2978
NW	9/11/1991	P19182	295 Sharpe Road, Anacortes, WA 98221	152	SC Well ID: 2914
NW	7/18/1985	P19191	Sharpe Road, Anacortes, WA 98221	120	SC Well ID: 2993
SE	5/30/2008	P19200	4794 Wagon Lane, Anacortes, WA 98221	156	--

Attachment A Table
Water Well Report Summary

Quarter-Quarter Section	Well Completion Date	Skagit County Tax Parcel No.	Well Address	Water Level (ft below top of well)	Skagit County Well ID
SE	10/27/2003	P19207	4812 Sharpe Road, Anacortes, WA 98221	19	220 feet elevation above msl
SE	11/5/2003	P19207	4812 Sharpe Road, Anacortes, WA 98221	64	240 feet elevation above msl
SW	8/31/1990	P19493	1422 Rosario Road, Anacortes, WA 98221	124	Plots far southwest of Pit
SW	3/27/2001	P64653	14018 Crater Lake Road, Anacortes, WA 98221	264	--
SE	6/25/2005	P64685	14231 Crater Lake Road, Anacortes, WA 98221	132	--
NW	9/15/2000	P64851	13253 Deane Dr, Anacortes, WA 98221	16	--
SE	11/19/1991	P82072	294 Sharpe Road, Anacortes, WA 98221	245	SC Well ID: 2996

SC Well ID: 3009		DOE Well ID:		Unique Well ID:		NOIW53221		Water Right Permit #			
Owner											
Last Name		First Name		Organization		Road		City	State	Zip	
Landers		Gene				268 Sharpe RD		Anacortes	WA	98221	
Location											
Parcel		Road		City	Zip	Q2	Q1	S	T	R	Elevation
108998		268 Sharpe RD		Anacortes	98221	NE	SE	11	34	1	
Delegation											
Notified Inspector		Inspection Date	DOE Date		SCHD Date	Seal Timing	Decommissioned Method		Inspected Problems		
			19950821		19960513						
Dimensions					Water Levels						
Diameter	Depth	Completed		Depth	Flow	Measured By		Depth	Measured Date		
6	300	255				183			19950811		
Work											
Proposed Use	Work Type		Method		Owners Well Number	Started		Completed			
Domestic	New Well		Rotary			19950508		19950811			
Casing					Perforation						
Connection Method		Diameter	Top	Bottom	Type	Size	Quantity	Top	Bottom		
		6	+1	300	Holte Starr			257	268		
Screens											
Manufacturer		Type	Model		Diameter	Slotsize	Top	Bottom			
Johnson		stainless steel			6	4	245	265			
Pump					Gravel Pack						
Manufacturer		Type	Horsepower		Size	Top		Bottom			
Surface Seal					Unusable Water						
Depth	Seal	Method		Water Type	Depth	Method					
18	bentonite			clay silty	16	natural clay					
Temperature Reading					Artesian Pressure						
Temperature	Date Measured	Measured By		Pressure	Measured Date		Controlled By				
Well Tests											
Type	Yield (gpm)		Drawdown/Stemset Hours		Measured By		Measured Date				
Air	1		250		1						
Well Log					Driller						
Material		Top	Bottom		Contractor	Last Name	First Name	License			
brown sandy clay		0	3		Affordable Water Systems	Halvorsen	Greg	1617			
brown clay & gravel		3	16								
brown clay		16	29								
tan clay		29	31								
gray clay & fine sand		31	41								
alternating brown & tan sand		41	65								
fine gray sand		65	87								
gray clay		87	94								

W

fine gray sand & water	94	110	
gray clay	110	190	✓
gravel (large)	190	195	
fine gray sand & water	195	200	
gravel & gray clay	200	205	
fine gray silt, sand, & clay	205	230	
gravel, sand, & clay	230	233	
sand, small gravel, & brown silt	233	243	
gray sand & clay	243	251	
gravel, sand, & clay	251	253	
gray clay	253	255	
gravel, sand, & clay	255	257	
gravel, sand, silt, & water	257	268	
gravel & sand -large, green	268	272	
gray clay, sand, & gravel	272	283	
gray clay	283	294	
gravel & gray clay	294	297	
bedrock-green	297	300	
Drilled in compliance with SCC 12.48, based on information supplied by owner.			
Note: Unusable water beteen :	94	110	
and also in strata:	195	200	

Skagit County Well Report

SC Well ID: 2947		DOE Well ID:		Unique Well ID:		NOI		Water Right Permit #			
Owner											
Last Name		First Name		Organization			Road		City	State	Zip
Mayer		Jack		1379 Islewood DR					Anacortes	WA	98221
Location											
Parcel		Road		City	Zip	Q2	Q1	S	T	R	Elevation
109020		1379 Islewood DR		Anacortes	98221	NE	SW	11	34	1	
Delegation											
Notified Inspector		Inspection Date		DOE Date		SCHD Date		Seal Timing	Decommissioned Method		Inspected Problems
				19881129		19890106					
Dimensions						Water Levels					
Diameter		Depth		Completed Depth		Flow		Measured By		Depth	Measured Date
6		260		170						180	
Work											
Proposed Use		Work Type		Method		Owners Well Number		Started		Completed	
Domestic		Abandoned		Cable				19880810		19880824	
Casing						Perforation					
Connection Method		Diameter	Top	Bottom		Type	Size	Quantity		Top	Bottom
		6	0	170							
Screens											
Manufacturer		Type	Model		Diameter	Slotsize		Top		Bottom	
Pump						Gravel Pack					
Manufacturer		Type		Horsepower		Size		Top		Bottom	
Surface Seal						Unusable Water					
Depth		Seal		Method		Water Type		Depth		Method	
18		bentonite									
Temperature Reading						Artesian Pressure					
Temperature		Date Measured		Measured By		Pressure		Measured Date		Controlled By	
Well Tests											
Type		Yield (gpm)		Drawdown/Stemset Hours			Measured By		Measured Date		
Well Log						Driller					
Material			Top	Bottom		Contractor		Last Name	First Name	License	
sand, gravel, & brown clay			0	85		B&C Welldrilling		Clothier	Bill	0085	
brown clay			85	125							
brown clay			125	182							
gray clay, fine sand with water			182	210							
gray clay			210	228							
rock, medium to hard			228	260							
Casing pulled back to 170', well capped											

79203

P109020

34/1-11 L 1/2

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

Start Card No. _____

STATE OF WASHINGTON

Water Right Permit No. _____

(1) OWNER: Name Jack Mayer Address 1379 Edgewood de Anacortes

(2) LOCATION OF WELL: County Skaag NE 1/4 Sec 11 T. 34 N. R. 2E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) Same

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other
 DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
Abandoned New well Deepened Reconditioned
Method: Dug Cable Rotary Bored Driven Jetted

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 50 feet. Depth of completed well 45 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 inch diam. from 0 ft. to 50 ft.
Welded Liner installed Threaded
Perforations: Yes No
Type of perforator used Mills Ken. 2
SIZE of perforations 1/4 in. by 2 in.
25 perforations from 20 ft. to 35 ft.

Screens: Yes No
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 10 ft.
Material used in seal Bestonite
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name Artematon
Type: ASB H.P. 1/2

(8) WATER LEVELS: Land surface elevation _____ ft. above mean sea level
Static level 25 ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? _____
Yield: 5 gal./min. with 10 ft. drawdown after 1/2 hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level

Date of test _____
Baker test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airstest _____ gal./min. with stem set at _____ ft. to _____ lbs.
Artesian flow _____ g.p.m. Date 9/14/88
Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
<u>TOP SOIL</u>	<u>0</u>	<u>2</u>
<u>Gravel Brown Clay</u>	<u>2</u>	<u>37</u>
<u>Sand Brown Clay</u>	<u>37</u>	<u>55</u>
<u>H2O - 33-35</u>		

RECEIVED
NOV 29 1988

DEPARTMENT OF ECOLOGY
NORTHWEST REGION

Work started 8/27 completed 9/1, 1988

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME B & C Well Drilling (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 955 Kelly Rd B Ham

(Signed) [Signature] License No. 0085
(WELL DRILLER)

Contractor's Registration No. 12406 Date 9-15-88, 1988

(USE ADDITIONAL SHEETS IF NECESSARY)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

2/2

SC Well ID: 2946		DOE Well ID:		Unique Well ID:		NOI		Water Right Permit #			
Owner											
Last Name		First Name		Organization		Road		City	State	Zip	
Mayer		Jack		1379		Islewood DR		Anacortes	WA	98221	
Location											
Parcel		Road		City	Zip	Q2	Q1	S	T	R	Elevation
109020		1379		Anacortes	98221	NE	SW	11	34	1	
Delegation											
Notified Inspector		Inspection Date	DOE Date		SCHD Date	Seal Timing	Decommissioned Method		Inspected Problems		
			19881129		19890106						
Dimensions					Water Levels						
Diameter		Depth		Completed Depth		Flow	Measured By		Depth	Measured Date	
6		50		45					-180		
Work											
Proposed Use		Work Type		Method		Owners Well Number		Started	Completed		
Domestic		New Well		Cable				19880829	19880901		
Casing					Perforation						
Connection Method		Diameter	Top	Bottom	Type	Size	Quantity	Top	Bottom		
		6	0	50	mills knife	0.25	25	28	35		
Screens											
Manufacturer		Type	Model	Diameter	Slot size	Top	Bottom				
Pump											
Manufacturer		Type	Horsepower		Gravel Pack Size		Top	Bottom			
Aeromotor		ASB	0.5								
Surface Seal					Unusable Water						
Depth		Seal	Method		Water Type		Depth	Method			
18		bentonite									
Temperature Reading					Artesian Pressure						
Temperature		Date Measured	Measured By		Pressure		Measured Date	Controlled By			
Well Tests											
Type		Yield (gpm)		Drawdown/Stemset		Hours		Measured By	Measured Date		
Pump		5		10		0.5			19880904		
Well Log					Driller						
Material			Top	Bottom	Contractor		Last Name	First Name	License		
top soil			0	2	B&C Welldrilling		Clothier	Bill	0085		
gravel & brown clay			2	37							
sand & brown clay			37	55							
water at 33-35 feet											

Skagit County Well Report

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

533972
301540
WATER WELL REPORT

P109020

34-1E-11K



Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller

Construction/Decommission ("x" in circle)

Construction
 Decommission **ORIGINAL INSTALLATION**
 Notice of Intent Number

PROPOSED USE: Domestic Industrial Municipal
 DeWater Irrigation Test Well Other

TYPE OF WORK: Owner's number of well (if more than one) 4
 New well Reconditioned Method: Dug Bored Driven
 Deepened Cable Rotary Jetted

DIMENSIONS: Diameter of well 6 inches, drilled 220 ft.
 Depth of completed well 220 ft.

CONSTRUCTION DETAILS
 Casing Welded 6 " Diam. from 1.5+ ft. to 216.5 ft.
 Installed: Liner installed " Diam. from " ft. to " ft.
 Threaded " Diam. From " ft. to " ft.

Perforations: Yes No
 Type of perforator used _____
 SIZE of perfs _____ in. by _____ in. and no. of perfs _____ from _____ ft. to _____ ft.

Screens: Yes No K-Pac Location _____
 Manufacturer's Name _____
 Type _____ Model No. _____
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel/Filter packed: Yes No Size of gravel/sand _____
 Materials placed from _____ ft. to _____ ft.

Surface Seal: Yes No To what depth? 18 ft.
 Material used in seal Bentonite
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

PUMPS: Manufacturer's Name Goulds
 Type: sub H.P. 1

WATER LEVELS: Land-surface elevation above mean sea level: _____ ft.
 Static level 196 ft. below top of well Date 16 June 08
 Artesian pressure _____ lbs. per square inch Date _____
 Artesian water is controlled by _____ (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom?
 Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
 Time Water Level Time Water Level Time Water Level

 Date of test _____
 Bailor Test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Airtest 1 gal./min. with stem set at 220 ft. for 1 hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water _____ Was a chemical analysis made? Yes No

CURRENT

Notice of Intent No. w231443
 Unique Ecology Well ID Tag No. apr872
 Water Right Permit No. _____
 Property Owner Name Chris Kresge
 Well Street Address 13562 Islewood Rd.
 City Anacortes County Skagit
 Location NW 1/4-1/4 SE 1/4 Sec 11 Twn 34 R 1 EWN Check
 (s, t, r Still REQUIRED) Or One
 Lat/Long Lat Deg _____ Lat Min/Sec _____
 Long Deg _____ Long Min/Sec _____
 Tax Parcel No. (Required) p109020

CONSTRUCTION OR DECOMMISSION PROCEDURE
 Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
Top soil	0	2
Brown sand silt	2	16
Grey sand gravel	16	21
Brown sand gravel	21	65
Brown sand-gravel clay	65	68
Loose sand gravel	68	76
Brown red clay gravel	76	80
Brown clay	80	114
Brown sand	114	131
Fine brown sand	131	140
Brown silt sand	140	153
Grey silt sand	153	180
Grey clay	180	203
Gravel grey Clay	203	210
Gravel large and sand	210	212
Gravel sand clay	212	215
Gravel sand	215	218
Bedrock	218	

Drilled in compliance with scc 12.48 based on information supplied by owner

RECEIVED
JUL 09 2008
DEPT. OF ECOLOGY
 Start Date 9 June 08 Completed Date 16 June 08

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller Engineer Trainee Name (Print) Halvorson
 Driller/Engineer/Trainee Signature [Signature]
 Driller or trainee License No. 1617
 IF TRAINEE: Driller's License No: _____
 Driller's Signature: _____

Drilling Company Affordable Water Systems
 Address 14021 Bradshaw Rd. 360-424-7444
 City, State, Zip Mt. Vernon, Wa, 98273
 Contractor's Registration No. afforws945ra Date 8 July 08

The Dep. The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

8674 ENTERED WATER WELL REPORT Start Card No. W052752 1/3
UNIQUE WELL I.D. # ABM650

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

STATE OF WASHINGTON Water Right Permit No.

(1) OWNER: Name Norm Outen Address 3411E/11-A

(2) LOCATION OF WELL: County Snohomish NE 1/4 NE 1/4 Sec 11 T. 34 N. R. 1 E.W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 2411 Rovers Rd Anacortes wa

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other
 DeWater

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

(4) TYPE OF WORK: Owner's number of well (if more than one)
Abandoned New well Deepened Reconditioned Method: Dug Bored
Cable Driven
Rotary Jetted

MATERIAL	FROM	TO
Sandy Brown clay	0	65
Blue clay	65	73
Soft sandstone	73	168
Sand	168	185
Blue clay	185	188
Sandstone	188	213
Sand (water bearing)	213	216

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 216 feet. Depth of completed well 216 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 Diam. from +1.5 ft. to N.S. ft.
Welded Diam. from -4 ft. to 186 ft.
Liner installed Inverted Diam. from _____ ft. to _____ ft.

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JUL 24 1995
DEPT. OF ECOLOGY

Perforations: Yes No
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes No
Manufacturer's Name _____ Model No. _____
Type _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel 8-12 SILICA SAND
Gravel placed from 18.5 ft. to 216 ft.

Surface seal: Yes No To what depth? 18.5 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name A-E MOTOR
Type: SUBMERSIBLE H.P. 1

Work Started July 13 1995 Completed July 19 1995

(8) WATER LEVELS: Land surface elevation above mean sea level _____
Static level 100 ft. below top of well Date July 18/95
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

NAME CASCADE DRILLING (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address 2411 30 ST NE MARYSVILLE 98270
(Signed) [Signature] License No. 1539
(WELL DRILLER)

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level

Contractor's Registration No. CASCADO91P8 Date July 21 1995
(USE ADDITIONAL SHEETS IF NECESSARY)

Date of test _____
Baller test 5 gal./min. with 70 ft. drawdown after 2 hrs.
Airstest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6800. The TDD number is (206) 407-6006.



WELL LOG CHANGE FORM

Instructions: Record any change made to the well log record on this form. Then always append this form to the well log image. File with the original.

WCL Log ID (Required) 86745 Well Log ID 39257

Regional Office: CRO ERO NWRO SWRO

Type of Well: Water Resource

Notice of Intent: W052752 Ecology Well ID Tag No. ABM650

Property (Well) Owner's Name Norm. Baker

Well Street Address 266 Rosario Rd

City _____ County Skagit Zip Code _____

Location: NE 1/4-1/4 NE 1/4 Sec 11 Twn 24 R 01 (E or W (Circle One))

Lat./Long: (Required) Lat. Deg. _____ Lat. Min/Sec _____

Long. Deg. _____ Long. Min/Sec _____

Horizontal Collection Method Code _____

Tax Parcel No P-109154

Type of Work: New Well Reconditioned Deepened

Well Log Received Date 7/24/95

Well Diameter 6 (in inches) Well Depth 216 (in feet) Well Completed Date 7/18/95

Driller's Ecology License No. 1539

Trainee's Ecology License No. _____

Reason/Source of Change (Required)

Per email from Lorna Parent @ Skagit county,
corrections were made to owner name, address
+ parcel #

Signature of Well Log Tracker (Required) Arline K. Harris Date 10/4/11

3/3

Harris, Arlene (ECY)

From: LornaParent [lornap@co.skagit.wa.us]
Sent: Tuesday, October 04, 2011 12:16 PM
To: Harris, Arlene (ECY)
Subject: well 86745

Hi Arlene,

I hope all is going well for you.

I found a typo on a well. See below. :)

The name should be: NORM BUKER

The address should be: 266 ROSARIO ROAD

I don't know if you keep track of our parcel numbers but just in case, it is: **P109154**

Sincerely,

Lorna Parent &

Skagit County Environmental Health

360.336.9476

Always working for a safer & healthier Skagit County!

1. ~~NORM BAKER~~ - { [view PDF](#) | [view TIFF](#) }
Public Land Survey: NE, NE, S-11, T-34-N, R-01-E, Tax Parcel Number: (blank)
County: SKAGIT, Well Address: 266 RORUS RD. ANACORTES
Well Log ID: 86745, Well Tag ID: ABM650, Notice of Intent Number: W052752
Well Diameter: 6 (inches), Well Depth: 216 (feet)
Well Type: Water, Well Completion Date: 7/19/1995, Well Log Received Date: 7/24/1995

77773
ENTERED

P11355

Start Card No. W073185

File Original and First Copy with
 Department of Ecology
 Second Copy -- Owner's Copy
 Third Copy -- Driller's Copy

WATER WELL REPORT

UNIQUE WELL I.D. #

STATE OF WASHINGTON

Water Right Permit No. 34-1E-11J

(1) OWNER: Name EDGENE LANDERS Address 268 SHARPE ROAD Anacortes WA 98221

(2) LOCATION OF WELL: County SKAGIT NE 1/4 SE 1/4 Sec 11 T 34 N. R 1 WM

(2a) STREET ADDRESS OF WELL (or nearest address) SAME

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other
 DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) #3
 Abandoned New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jettied

(5) DIMENSIONS: Diameter of well 24" inches.
 Drilled 85 feet. Depth of completed well 85 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 12" Diam. from 0 ft. to 85 ft.
 Welded Liner installed Threaded
 Perforations: Yes No Ground Pump

Type of perforator used _____
 SIZE of perforations 1/4" 0 in. by 2" x 2 Space in.
84" perforations from 80 ft. to 84 ft.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.

Screens: Yes No Ground Pump
 Manufacturer's Name _____
 Type PLASTIC Model No. _____
 Diam. 5 Slot size 2-0 from 75 ft. to 85 ft.
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel PEA
 Gravel placed from 65 ft. to 85 ft.

Surface seal: Yes No To what depth? 65 ft.
 Material used in seal CONCRETE
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata RECEIVED
 Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____ Type: _____
 DEPT. OF ECOLOGY

(8) WATER LEVELS: Land surface elevation above mean sea level _____ ft.
 Static level 75 ft. below top of well Date _____
 Artesian pressure 0 lb. per square inch Date _____
 Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? owner
 Yield: 5 gal./min. with 01 ft. drawdown after 4 hrs.

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
 Bailor test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Airstest _____ gal./min. with stem set at _____ ft. for _____ hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sandy loam	0	3
Grey Sand Gravel	3	26
Grey Clay	26	30
Grey Sand & Gravel	30	41
Some Rock to 6"		
Pea size Gravel	41	43
layers grey sand with clay sediment	43	45
Grey Sand Gravel	45	80
Water in course sand & Gravel	77	80
Brown Clay	80	85
Total Well Depth	85'	

Well Dug With Home Built Cham Type Digger 24" (C) With 12" Plastic liner 6" Side Walls of 3/4-5 1/2 SK MIX FROM 3' Above Ground to 65' Depth. Pea Gravel From 65' to 85'

Work Started 9-18-1990 Completed 9-30-90

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Home Owner DEPT. OF ECOLOGY
 (PERSONAL FIRM OR CORPORATION) (TYPE OR PRINT)

Address 268 Sharpe Rd Anacortes Wa 98221

(Signed) Eugene Landers (WELL DRILLER) License No. None

Contractor's Registration No. Homeowner Date Aug 1990

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-8600. The TDD number is (206) 407-8006.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

77468

MADE

WATER WELL REPORT
STATE OF WASHINGTON

P1916

2931

Start Card No. W066031
Water Right Permit No.

4492

(1) OWNER: Name HEISEY, EARL Address 1203 33RD AVE ANACORTES, WA 98221-3411/ILC

(2) LOCATION OF WELL: County SKAGIT
(2a) STREET ADDRESS OF WELL (or nearest address) WILWOOD LN
- NE 1/4 NW 1/4 Sec 11 T 34 N., R 1E W4

(3) PROPOSED USE: DOMESTIC

(4) TYPE OF WORK: Owner's Number of well (If more than one) 1
Method: ROTARY
NEW WELL

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 180 ft. Depth of completed well 43.5 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 Dia. from 42 ft. to 40 ft.
WELDED 6 Dia. from 45 ft. to 178 ft.
Dia. from ft. to ft.

Perforations: NO
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: YES
Manufacturer's Name HOWARD SMITH
Type STAINLESS STEEL Model No. KO
Dian. 6 slot size 10 from 38.5 ft. to 43.5 ft.
Dian. slot size from ft. to ft.

Gravel packed: NO
Gravel placed from ft. to ft. Size of gravel ft.

Surface seal: YES To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off

(7) PUMP: Manufacturer's Name AERMOTOR
Type SUBMERSTIBLE H.P. 1/2

(8) WATER LEVELS: Land-surface elevation
Static level 26 ft. below mean sea level ... ft. Date 09/19/95
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? YES If yes, by whom? JERRY BACUS
Yield: 5 gal./min with 17 ft. drawdown after 2 hrs.

Recovery data
Time Water Level Time Water Level Time Water Level

Date of test
Bailer test 2 gal/min. 12 ft. drawdown after 1 hrs.
Air test gal/min. w/ stem set at ft. for hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? YES

(10) WELL LOG
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

MATERIAL	FROM	TO
TOPSOIL	0	1
BROWN SAND SILT GRAVEL	1	11
GRAY CLAY GRAVEL	11	20
GRAY SAND GRAVEL	20	25
GRAY SAND & WATER	25	46
GRAY SAND SILT - SEEPAGE	46	50
GRAY CLAY	50	100
GRAY CLAY SILT SAND	100	105
LAYERED - SEEPAGE	100	105
GRAY CLAY	105	114
GRAY SAND SILT - SEEPAGE	114	118
GRAY CLAY SAND SILT	118	130
GRAY CLAY	130	141
GRAY CLAY SAND SILT	141	161
LAYERED	141	161
GRAY CLAY	161	161

Cut casing at 45' backfilled with 3/8" chips from 180' to 44'

RECEIVED
OCT 02 1995
DEPT. OF ECOLOGY

Work started 09/15/95 Completed 09/19/95

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME HAYES DRILLING, INC.
(Person, firm, or corporation) (Type or print)

ADDRESS 556 ERSNIG RD. BDN, WA

[SIGNED] License No. 1825

Contractor's Registration No. HAYESDI10635 Date 09/27/95

WELL SITE MEETS ALL SIGHTING CRITERIA UNDER S.C.C. 12.48.090 AND WAC 173-160 BASED ON INFORMATION SUPPLIED BY THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE.

74869

P19106

3644

34-1E-11C

WATER WELL REPORT

Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller

Construction/Decommission ("x" in circle) 145171

Construction
 Decommission ORIGINAL CONSTRUCTION Notice of Intent Number _____

CURRENT Notice of Intent No. W-175637
Unique Ecology Well ID Tag No. AGR 5B1
Water Right Permit No. _____

Property Owner Name Thomas C WILL
Well Street Address 13060 S. Wildwood Ln

City Anacortes County: Skagit
Location NE 1/4- 1/4 NW 1/4 Sec 11 Twn 34N R1 BWM or one WWM

Lat/Long: (s,t,r still REQUIRED) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____
Tax Parcel No. _____

PROPOSED USE: Domestic Industrial Municipal
 DeWater Irrigation Test Well Other

TYPE OF WORK: Owner's number of well (if more than one) _____
 New Well Reconditioned Method Dug Bored Driven
 Deepened Cable Rotary Jetted

DIMENSIONS: Diameter of well 6 inches, drilled 77 ft
Depth of completed well 77 ft

CONSTRUCTION DETAILS
Casing Welded 6 Diam from +1.3 ft to 67 ft
Installed: Liner installed _____ Diam from _____ ft to _____ ft
 Threaded _____ Diam from _____ ft to _____ ft

Perforations: Yes No
Type of perforator used _____
SIZE of perfs _____ in by _____ in and no of perfs _____ from _____ ft to _____ ft

Screens: Yes No K-Pac Location 66 FT
Manufacturer's Name _____
Type Stainless Wire Model No _____
Diam 6 Slot Size 8 from 67 ft to 77 ft
Diam _____ Slot Size _____ from _____ ft to _____ ft

Gravel/Filter packed: Yes No Size of gravel/sand _____
Materials placed from _____ ft to _____ ft

Surface Seal: Yes No To what depth? 18 ft
Materials used in seal _____
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

PUMP: Manufacturer's Name _____
Type _____ HP _____

WATER LEVELS: Land-surface elevation above mean sea level 250 ft
Static level 55 ft below top of well Date 1/28/04
Artesian pressure _____ lbs per square inch Date _____
Artesian water is controlled by _____ (cap, valve, etc)

WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? _____
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level

Date of test _____
Bailer test 5 gal/min with 8 ft drawdown after 1 hrs
Artest _____ gal/min with stem set at _____ ft for _____ hrs
Artesian flow _____ gpm Date 1/28/04
Temperature of water _____ Was a chemical analysis made? Yes No

CONSTRUCTION OR DECOMMISSION PROCEDURE
Formation Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information Indicate all water encountered (USE ADDITIONAL SHEETS IF NECESSARY)

MATERIAL	FROM	TO
sandy		5
Hardpan	5	23
silty sand	23	59
Fine sand w water	59	64
clay	64	67
Fine sand w. water	67	77
clay	77	

RECEIVED
FEB 11 2004
DEPT OF ECOLOGY

Well site meets all
Set Backs under
LCC 809
Based on info
supplied by owner

Start Date Jan 26/04 Completed Date Jan 28/04

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller Engineer Trainee Name (Print) Rory Boonstra
Driller/Engineer/Trainee Signature [Signature]
Driller or Trainee License No. 0038

Drilling Company WHIDBEY WELL DRILLERS
Address 716 Hellbrook Rd
City, State, Zip Coupeville wa 98239
Contractor's Registration No. WHIDBWD9714 Date 1/28/04

If trainee, licensed driller's Signature and License no. _____

Ecology is an Equal Opportunity Employer ECY 050-1-20 (Rev 4/01)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's copy

WATER WELL REPORT

STATE OF WASHINGTON

Water Right Permit No.

Notice of Intent W207527

UNIQUE WELL I.D. # ALQ297

P19111

424849
34-1E11G

185679

(1) OWNER: Name Nels Strandberg Address P.O. Box 319, Anacortes, WA 98221

(2) LOCATION OF WELL: County skagit - SW 1/4 NE 1/4 Sec 11 T. 34 N.R 1E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 13507 Rosario Rd Anacortes

TAX PARCEL NO. _____

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other
 DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
 New Well Method: _____
 Deepened Dug Bored
 Reconditioned Cable Driven
 Decommission Rotary Jetted

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 100 feet. Depth of completed well 96 ft.

(6) CONSTRUCTION DETAILS:
Casing Installed:
 Welded 6" Diam. from +2 ft. to 92 ft.
 Liner Installed _____" Diam. from _____ ft. to _____ ft.
 Threaded _____" Diam. from _____ ft. to _____ ft.

Perforations: Yes No
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes No K-Pac Location _____
Manufacturer's Name Johnson
Type ss Model No. _____
Diam. 6 Slot size 6 from 91 ft. to 96 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel/Filter packed: Yes No Size of gravel/sand _____
Material placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 18 ft.
Material used in seal benonite
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P.

(8) WATER LEVELS: Land-surface elevation _____ ft.
above mean sea level
Static level 55 ft. below top of well Date 10/31/2005
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test 5 gal./min. with 20 ft. drawdown after 1 hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG or DECOMMISSIONING PROCEDURE DESCRIPTION:

Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. Indicate all water encountered.

MATERIAL	FROM	TO
topsoil	0	1
brown clay scattered gravel	1	16
gray sandy clay	18	55
tan sand gravel silt seepage	55	59
gray clay	59	70
gray fine sand clay layered	70	79
gray clay	79	92
gray fine sand water	92	96
gray clay fine sand layered	96	

Located in compliance with sec 12-48 based on information supplied by owner.

05240

RECEIVED
NOV 29 2005
DEPT OF ECOLOGY

Work Started 10/28/2005 .19. Completed 10/31/2005 .19

WELL CONSTRUCTION CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Type or Print Name Wayne Logsdon License No. 2146
(Licensed Driller/Engineer)

Trainee Name _____ License No. _____

Drilling Company Aquatech Well Drilling & Pumps Inc

(Signed) Wayne Logsdon License No. 2146
(Licensed Driller/Engineer)

Address 2722 Butler Crk Rd SedroWoolley Wa 98284

Contractor's Registration No. AQUATWD040K4 Date 11/1/2005 .19

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (360) 407-6600. The TDD number is (360) 407-6006.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

P19125 8100

34/01-11B

File Original and First Copy with
Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No

Permit No

(1) **OWNER:** Name Larry Gulick Address 1313 Deane's Dr. Anacortes
 (2) **LOCATION OF WELL:** County Skagit NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 11 T. 34 N. R. 1E W.M.
 Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic Industrial Municipal
 Irrigation Test Well Other

(4) **TYPE OF WORK:** (Owner's number of well (if more than one).....)
 New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted

(5) **DIMENSIONS:** Diameter of well 6 inches.
 Drilled 200 ft. Depth of completed well 200 ft.

(6) **CONSTRUCTION DETAILS:**
 Casing installed: 6" Diam. from +4 ft. to 149 1/2 ft.
 Threaded " Diam. from ft. to ft.
 Welded " Diam. from ft. to ft.

Perforations: Yes No
 Type of perforator used.....
 SIZE of perforations in. by in.
 perforations from ft. to ft.
 perforations from ft. to ft.
 perforations from ft. to ft.

Screens: Yes No
 Manufacturer's Name.....
 Type..... Model No.....
 Diam. Slot size from ft. to ft.
 Diam. Slot size from ft. to ft.

Gravel packed: Yes No Size of gravel:
 Gravel placed from ft. to ft.

Surface seal: Yes No To what depth? 18 ft.
 Material used in seal Puddeling clay
 Did any strata contain unusable water? Yes No
 Type of water? Depth of strata.....
 Method of sealing strata off.....

(7) **PUMP:** Manufacturer's Name Webtrol
 Type: 525513B Sub H.P. 1/2

(8) **WATER LEVELS:** Land-surface elevation above mean sea level.....
 Static level 78 ft. below top of well Date 8/27/87
 Artesian pressure lbs. per square inch Date.....
 Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom?.....
 Yield: gal./min. with ft. drawdown after hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
 Pump test 2 gal./min. with ft. drawdown after hrs.
 Artesian flow g.p.m. Date.....
 Temperature of water Was a chemical analysis made? Yes No

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Topsoil	0	1
Brown sand & gravel	1	7
Boulder	7	8
Brown med. sand & gravel	8	12
Brown fine sand & gravel	12	14
Brown fine sand & little clay	14	15
Gray fine sand & little clay	15	16
Gray soupy fine sand & clay	16	17
Gray clay	17	66
Gray clay & fine sand	66	75
Gray soupy fine sand & clay is saturated	75	83
Gray mix clay	83	91
Gray clay & fine sand - softer	91	103
Gray clay	103	137 1/2
Softer gray clay & some gravel	137 1/2	149 1/2
Rock (Andesite)	149 1/2	

Water coming from right on top of the rock.

RECEIVED
 JAN 28 1988
 DEPARTMENT OF ECOLOGY
 NORTHWEST REGION

Work started 8/26, 1987. Completed 8/27, 1987.

WELL DRILLER'S STATEMENT:
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME HAYES WELL DRILLING & PUMPS, INC.
 (Person, firm, or corporation) (Type or print)

Address 556 ERSHIG RD. BOW

(Signed) Steve Gilbert
 (Well Driller)

License No. E# 762 Date 1/14, 1988

(USE ADDITIONAL SHEETS IF NECESSARY)

SC Well ID: 2934		DOE Well ID:		Unique Well ID:		NOI		Water Right Permit #				
Owner												
Last Name		First Name		Organization		Road		City	State	Zip		
Gates		Charles		1/2 mi. W of Lake Erie				Anacortes	WA	98221		
Location												
Parcel		Road		City		Zip	Q2	Q1	S	T	R	Elevation
19127		1/2 mi. W of Lake Erie		Anacortes		98221	SE	NE	11	34	1	
Dimensions					Water Levels							
Diameter		Depth		Completed		Depth		Flow	Measured By		Depth	Measured Date
6		89		68					35			19680801
Work												
Proposed Use		Work Type		Method		Owners Well Number		Started		Completed		
Domestic		New Well		Cable				19680801		19680801		
Casing					Perforation							
Connection Method		Diameter	Top	Bottom	Type	Size	Quantity		Top	Bottom		
		6	+2	68								
Screens												
Manufacturer		Type	Model	Diameter		Slotsize	Top		Bottom			
Cook		stainless steel	KO	6		10	64		68			
Pump					Gravel Pack							
Manufacturer		Type		Horsepower		Size		Top	Bottom			
Surface Seal					Unusable Water							
Depth		Seal		Method		Water Type		Depth	Method			
Temperature Reading					Artesian Pressure							
Temperature		Date Measured		Measured By		Pressure		Measured Date		Controlled By		
Well Tests												
Type		Yield (gpm)		Drawdown/Stemset		Hours		Measured By		Measured Date		
Bailer		4		25		1						
Well Log					Driller							
Material		Top	Bottom		Contractor		Last Name	First Name	License			
brown clay, sand, & gravel		0	8		Hayes		Hayes	Hilton				
brown sand, clay & gravel		8	18									
tan sand		18	41									
gray silt, sand, & clay		41	55									
silt & sand		55	62									
sand & water		62	71									
silt, sand, & water		71										

Skagit County Well Report

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original with
Department of Ecology
Second Copy Owner's Copy
Third Copy - Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Notice of Intent W 122841

UNIQUE WELL ID # AFJ 942

Water Right Permit No 34-1E-116

(1) OWNER Name Tim McMaster Address 8927 STEVENSON Rd ANACOSTES

(2) LOCATION OF WELL County SKagit SW 1/4 NE 1/4 Sec 11 T 34 N R 1 WM

(2a) STREET ADDRESS OF WELL (or nearest address) XX LK Cambie Rd ANACOSTES

TAX PARCEL NO _____

(3) PROPOSED USE Domestic Industrial Municipal
 Irrigation Test Well Other
 DeWater

(4) TYPE OF WORK Owner's number of well (if more than one) _____
 New Well Method Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted
 Decommission

(5) DIMENSIONS Diameter of well 6 inches
Drilled 74 feet Depth of completed well 73 ft

(6) CONSTRUCTION DETAILS Casing installed Welded 6 Diam from 68 ft to 73 ft
 Liner installed _____ Diam from _____ ft to _____ ft
 Threaded _____ Diam from _____ ft to _____ ft

Perforations Yes No
Type of perforator used _____
SIZE of perforations _____ in by _____ in
_____ perforations from _____ ft to _____ ft

Screens Yes No Pac Location 68
Manufacturer's Name Johnson
Type S/S Model No _____
Diam 5 Slot Size 10 from 68 ft to 73 ft
Diam _____ Slot Size _____ from _____ ft to _____ ft

Gravel/Filter packed Yes No Size of gravel/sand _____
Material placed from _____ ft to _____ ft

Surface seal Yes No To what depth? 18 ft
Material used in seal Bostonite
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP Manufacturer's Name Goulds
Type Sub HP 1/2

(8) WATER LEVELS Land surface elevation above mean sea level _____ ft
Static level 60 ft below top of well Date 3 MAY 01
Artesian pressure _____ lbs per square inch Date _____
Artesian water is controlled by _____
(Cap, valve etc)

(9) WELL TESTS Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? _____
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level

Date of test _____
Bailer test _____ gal/min with _____ ft drawdown after _____ hrs
Artest 1 gal/min with 68 ft drawdown after 1 hrs
Artesian flow _____ gpm Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG or DECOMMISSIONING PROCEDURE DESCRIPTION
Formation Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. Indicate all water encountered

MATERIAL	FROM	TO
Brown CLAY + Gravel	0	8
Gravel + CLAY	8	12
TAN SAND	12	28
FINE TAN SAND	28	35
Grey sand	35	45
Grey S.I.T	45	48
Grey CLAY + S.I.T	48	65
SAND	65	73
Grey CLAY	73	

Drilled in compliance with SEC 12.48
Based on information supplied
By owner John [Signature]

RECEIVED

MAY 31 2001

DEPT OF ECOLOGY

Work Started 2 MAY 01 Completed 3 MAY 01

WELL CONSTRUCTION CERTIFICATION

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Type or Print Name Halvorson License No 2480
(Licensed Driller/Engineer)

Trainee Name _____ License No _____
Drilling Company AFFORDABLE WATER SYSTEMS

(Signed) John Halvorson License No 2480
(Licensed Driller/Engineer)

Address 14021 BRADSHAW RD MT VERNON

Contractor's Registration No AFFORWS10125 Date 29 MAY 01

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (360) 407-6600. The TDD number is (360) 407 6006.

30390

P 19130 ✓

294

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

342743

P19138 (342743)

REVISED 73610

(1) OWNER: Name PAN KOPROWSKI Address 13718 DAY BREAK LANE ANACORTES, WA 98221-34-1E-112

(2) LOCATION OF WELL: County SKAGIT (2a) STREET ADDRESS OF WELL (or nearest address) 13718 DAY BREAK PROPOSED USE: DOMESTIC

(4) TYPE OF WORK: NEW WELL Owner's Number of well (If more than one) 1 Method: ROTARY

(5) DIMENSIONS: Diameter of well 6 inches Drilled 177 ft. Depth of completed well 141.6 ft.

(6) CONSTRUCTION DETAILS: Casing installed: 6 Dia. from 43 ft. to 137 ft. Dia. from 137 ft. to 141.6 ft. Dia. from 141.6 ft. to 177 ft. Method: WELDED

Perforations: NO Type of perforator used: COOK Size of perforations: 1/2 in. Dia. perforations from 137 ft. to 141.6 ft. Dia. perforations from 141.6 ft. to 177 ft.

Screens: YES Manufacturer's Name: STAINLESS STEEL Model No. COOK 136 Dia. 6 slot size 010 from 137 ft. to 141.6 ft. Dia. slot size from 141.6 ft. to 177 ft.

Gravel sacked: NO Size of gravel: 1/4 in. Gravel placed from 137 ft. to 141.6 ft. Surface seal: YES Material used in seal: BENTONITE To what depth? 18 ft. Did any strata contain unusable water? NO Type of water: Depth of strata: Method of sealing strata off:

PUMP: Manufacturer's Name: Type: H.P.:

(3) WATER LEVELS: Land-surface elevation above mean sea level: ft. Static level: 97 ft. below top of well Date: 02/11/00 Artesian Pressure: lbs. per square inch Date: Artesian water controlled by:

(9) WELL TESTS: Drawdown is amount water level is lowered below static level. Was a pump test made? YES If yes, by whom: HAYES DRILLING Field: 5 gal./min with 38 ft. drawdown after 1.25 hrs.

Recovery Data table with columns: Time, Water Level, Time, Water Level, Time, Water Level. Includes data for Sailer test, Air test, Artesian flow, and Temperature of water.

(10) WELL LOG Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

Table with columns: MATERIAL, FCN, and depth. Lists materials like GRAVEL & SAND, BROWN CLAY, GRAY SILT & CLAY, etc.

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APR 08 2003

DEPARTMENT OF ECOLOGY WELL DRILLING UNIT

DEPT. OF ECOLOGY FISCAL & BUDGET 03 APR -3 P1:18

Work started 01/31/00 Completed 02/07/00

WELL CONSTRUCTOR CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME HAYES DRILLING, INC. (Person, firm, or corporation) Type of entity: ADDRESS 5696 ERSNIG RD. BON, WA (SIGNED) Paul J. Hayes License No. 1149 Contractor's Registration No. HAYES0110635 Date 10/22/00

6965

Well site meets all sighting criteria under S.C.C 12.48.090 and WAC 173-160 based upon information supplied by the owner or owner's authorized representative

The Dep. The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

77995

P1950

34/E/11
075975

T/4

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No.
Water Right Permit No.

(1) OWNER: Name BRESEE, FRED Address 1296 THOMPSON RD ANACORTES, WA 98221-
(2) LOCATION OF WELL: County SKAGIT - NE 1/4 SE 1/4 Sec 11 T 34 N., R 1E W4
(2a) STREET ADDRESS OF WELL (or nearest address) 297 SHARPE RD

(3) PROPOSED USE: DOMESTIC

(10) WELL LOG

(4) TYPE OF WORK: NEW WELL
Owner's Number of well (If more than one) Method: ROTARY
(5) DIMENSIONS: Drilled 226 ft. Diameter of well 6 inches Depth of completed well 222 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(6) CONSTRUCTION DETAILS: Casing installed: 6" Dia. from 3 ft. to 222 ft. WELDED Dia. from ft. to ft. Dia. from ft. to ft.

MATERIAL	FROM	TO
TOPSOIL	0	1
BROWN SANDY CLAY & LITTLE GRAVEL	1	23
BROWN FINE SAND & LITTLE GRAVEL	23	34
BROWN CLAY & FINE SAND	34	46
BROWN FINE SAND	46	53
GRAY FINE SAND	53	55
GRAY SAND & WOOD - SEEPAGE	55	62
GRAY CLAY	62	63
GRAY SAND WOOD & WATER	63	69
GRAY CLAY & FINE SAND	69	81
GRAY CLAY	81	88
GRAY FINE SAND & CLAY	88	92
GRAY FINE SAND - SEEPAGE	92	100
GRAY CLAY & SOME SILT	100	107
GRAY CLAY	107	189
GRAY CLAY & SOME GRAVEL	189	195
GRAY CLAY	195	222
GRAY GRAVEL & WATER	222	225
GRAY GRAVEL & CLAY	225	225

Perforations: NO
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: NO
Manufacturer's Name
Type Model No.
Diam. slot size from ft. to ft.
Diam. slot size from ft. to ft.

Gravel packed: NO
Gravel placed from ft. to ft. Size of gravel ft.

Surface seal: YES To what depth? 10 ft.
Material used in seal PUDDLING CLAY
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off

(7) PUMP: Manufacturer's Name Type H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.
Static level 135 ft. below top of well Date 09/19/90
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

Work started 09/18/90 Completed 09/19/90

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? NO If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Recovery data
Time Water Level Time Water Level Time Water Level

NAME HAYES DRILLING, INC.
(Person, firm, or corporation) (Type or print)

Date of test 1/1
Bailer test gal./min. ft. drawdown after hrs.
Air test 30 gal./min. w/ stop set at 220 ft. for 1 hrs.
Artesian flow g.p.w. Date
Temperature of water Was a chemical analysis made? NO

ADDRESS 556 EASHIG RD. BON, WA
[SIGNED] *[Signature]* License No. 1825
Contractor's Registration No. HAYESDI106J5 Date 10/10/90

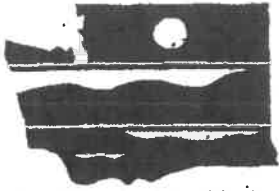
1158

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OCT 22 1990
DEPT. OF ECOLOGY

The Department of Ecology does NOT Warrant the Data and/or the Information on this Well Report.

2/d

34-1E-11



WASHINGTON STATE DEPARTMENT OF ECOLOGY

Well Tagging Form

Unique Well Tag No: AHH 853

RECORD VERIFICATION (check one)

- Well Report available (please attach this form to the well report and submit it to the Ecology Regional Office near you)
- Verification inconclusive
- Well Report not available

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OCT 17 2006

DEPT. OF ECOLOGY

WELL OWNERSHIP IF DIFFERENT FROM WELL REPORT

First Name: Michael + Sue-Ann Last Name: Gifford

Street Address: 4929 Sharpe Road

City: Anacortes State: Wash.

LOCATION OF WELL IF DIFFERENT FROM WELL REPORT

Well Address: Same

City: _____ County: _____

T. _____ N. R. _____ W.M. Sec. _____ 1/4 of the _____

FOR AGENCY USE ONLY

Latitude _____ "

Longitude _____ "

Elevation at land surface _____ feet/meters (circle one)

Additional information, if available:

- Location marked on topographic map (please attach)
- Location marked on air photo (please attach)

- GPS
- Topographic Map
- Survey
- Computer generated
- Digital Allimeter
- Topographic Map
- Other _____

Skagit County GIS Map



- County Boundary
- Railroads
- Contours**
- 100 foot contours
- 20 foot contours
- Roads**
- State Roads
- Local Roads
- Parcels
- Rivers and Streams
- City Limits
- Sections

Skagit County iMap

SKAGIT COUNTY does not attest to the accuracy to the data contained herein and makes no-warranty with respect to-the correctness or validity of this map. Data contained in this map is limited by the method and accuracy of its collection.

Map Scale:

1 inch = 321 Feet
 (1 inch = 0.1 Miles)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Well Log Data and Image are 'As Is' with NO Warranty. Well Log ID: 77995 (page 1 of 1)

4/4

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No. 075975
Water Right Permit No. ANH-853

34/E/11 T

(1) OWNER: Name BRESEE, FRED Address 1296 THOMPSON RD ANACORTES, WA 98221- NE 1/4 SE 1/4 Sec 11 T 34 N., R 1E WM

(2) LOCATION OF WELL: County SKAGIT
(2a) STREET ADDRESS OF WELL (or nearest address) 297 SHARPE RD

(3) PROPOSED USE: DOMESTIC

(4) TYPE OF WORK: NEW WELL
Owner's Number of well (if more than one) Method: ROTARY

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 226 ft. Depth of completed well 222 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 Dia. from 43 ft. to 222 ft.
WELDED Dia. from ft. to ft.
Dia. from ft. to ft.

Perforations: NO
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: NO
Manufacturer's Name Model No.
Type slot size from ft. to ft.
Diam. slot size from ft. to ft.
Diam. slot size from ft. to ft.

Gravel packed: NO
Gravel placed from ft. to ft. Size of gravel ft.

Surface seal: YES
Material used in seal PUDDLING CLAY To what depth? 18 ft.
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off

(7) PUMP: Manufacturer's Name Type H.P.

(8) WATER LEVELS: Land-surface elevation above-mean sea level ft.
Static level 135 ft. below top of well Date 09/19/90
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? NO If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

Recovery data
Time Water Level Time Water Level Time Water Level

Date of test 1/1
Bailer test gal./min. ft. drawdown after hrs.
Air test 30 gal./min. w/ stem set at 220 ft. for 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? NO

(10) WELL LOG
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

MATERIAL	FROM	TO
TOPSOIL	0	1
BROWN SANDY CLAY & LITTLE GRAVEL	1	23
BROWN FINE SAND & LITTLE GRAVEL	23	34
BROWN CLAY & FINE SAND	34	46
BROWN FINE SAND	46	53
GRAY FINE SAND	53	55
GRAY SAND & WOOD - SEEPAGE	55	62
GRAY CLAY	62	63
GRAY SAND WOOD & WATER	63	69
GRAY CLAY & FINE SAND	69	81
GRAY CLAY	81	88
GRAY FINE SAND & CLAY	88	92
GRAY FINE SAND - SEEPAGE	92	100
GRAY CLAY & SOME SILT	100	107
GRAY CLAY	107	189
GRAY CLAY & SOME GRAVEL	189	195
GRAY CLAY	195	222
GRAY GRAVEL & WATER	222	225
GRAY GRAVEL & CLAY	225	225

Work started 09/18/90 Completed 09/19/90

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME HAYES DRILLING, INC.
(Person, firm, or corporation) (Type or print)
ADDRESS 556 ERSKIG RD. BOM, WA
(SIGNED) [Signature] License No. 1825.
Contractor's Registration No. HAYESDI106JS Date 10/10/90

1158

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OCT 22 1990
DEPT. OF ECOLOGY

79492

P19147

1/3

ENTERED

WELL REPORT

Start Card No. W 054478
Unique Well I.D. #
Water Right Permit No.

STATE OF WASHINGTON

(1) OWNER: Name **INGSTAD, JEFF** Address **1389 EAGLE CREST LANE ANACORTES, WA 98221-**

(2) LOCATION OF WELL: County **SKAGIT** - SW 1/4 SW 1/4 Sec 11 T 34 N., R 1 W
(2a) STREET ADDRESS OF WELL (or nearest address) **1389 EAGLE CREST LANE, ANACORTES** **34-1E-11N**

(3) PROPOSED USE: **DOMESTIC**

(10) WELL LOG
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(4) TYPE OF WORK: Owner's Number of well (If more than one) Method: **ROTARY**
NEW WELL

(5) DIMENSIONS: Diameter of well 6 inches
Drilled **226** ft. Depth of completed well **226** ft.

MATERIAL	FROM	TO
TOPSOIL	0	3
GRAY SAND & GRAVEL	3	124
BROWN CLAY	124	175
BROWN SAND & CLAY	175	206
FINE SAND WATER	206	208
BROWN CLAY	208	220
WATER & SAND	220	225
BROWN CLAY	226	231
BLUE CLAY	231	

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 221 ft. **WELDED**
" Dia. from ft. to ft.
" Dia. from ft. to ft.

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NOV 29 1995
DEPT. OF ECOLOGY

Perforations: **NO**
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

WELL LOCATED ACCORDING TO SKAGIT COUNTY ORDINANCE # 12.48

Screens: **YES**
Manufacturer's Name
Type **STAINLESS STEEL** Model No. **TELESCOPING**
Diam. 6 slot size 8 from 221 ft. to 226 ft.
Diam. slot size from ft. to ft.

Gravel packed: **NO**
Gravel placed from ft. to ft. Size of gravel

Surface seal: **YES** To what depth? **18** ft.
Material used in seal **BENTONITE**
Did any strata contain unusable water? **NO**
Type of water? Depth of strata ft.
Method of sealing strata off

(7) PUMP: Manufacturer's Name Type H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.
Static level **186** ft. below top of well Date **11/14/95**
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

Work started **11/10/95** Completed **11/14/95**

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Recovery data
Time Water Level Time Water Level Time Water Level

NAME **DAHLMAN PUMP & WELL DRILL**
(Person, firm, or corporation) (Type or print)

Date of test / /
Bailer test gal./min. 8 ft. drawdown after hrs.
Air test 7.5 gal./min. w/ stem set at ft. for 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made?

ADDRESS **PO BOX 422, BURLINGTON, WA**
[SIGNED] *Ted Ruben* License No. **0523**
Contractor's Registration No. **DAHLEPW123LC** Date **11/15/95**

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

79492

2/3

SC Well ID: 2979		DOE Well ID:		Unique Well ID:		NOIW064478		Water Right Permit #			
Owner											
Last Name		First Name		Organization Road			City	State	Zip		
Ingstad		Jeff		1389 Eagle Crest LN			Anacortes	WA	98221		
Location											
Parcel		Road		City	Zip	Q2	Q1	S	T	R	Elevation
19147		1389 Eagle Crest		Anacortes	98221	SW	SW	11	34	1	
Delegation											
Notified Inspector		Inspection Date		DOE Date		SCHDD Date		Seal Timing	Decommissioned Method	Inspected Problems	
				19951129							
Dimensions					Water Levels						
Diameter		Depth		Completed Depth		Flow	Measured By		Depth	Measured Date	
6		231		226			184			19951114	
Work											
Proposed Use		Work Type		Method		Owners Well Number		Started	Completed		
Domestic		New Well		Rotary				19951110	19951114		
Casing					Perforation						
Connection Method		Diameter	Top	Bottom	Type	Size	Quantity	Top	Bottom		
		6	0	221							
Screens											
Manufacturer		Type		Model	Diameter	Slotsize	Top	Bottom			
		stainless steel-telescopi			6	8	221	226			
Pump				Gravel Pack							
Manufacturer		Type		Horsepower		Size	Top		Bottom		
Surface Seal				Unusable Water							
Depth		Seal		Method		Water Type	Depth		Method		
18		bentonite									
Temperature Reading				Artesian Pressure							
Temperature		Date Measured		Measured By		Pressure	Measured Date		Controlled By		
Well Tests											
Type		Yield (gpm)		Drawdown/Stemset Hours		Measured By		Measured Date			
Air		7.5		1							
Well Log				Driller							
Material		Top	Bottom	Contractor		Last Name	First Name	License			
top soil		0	3	Dahlman		Rickers	Ted	0623			
gray sand & gravel		3	124								
brown clay		124	175								
brown sand & clay		175	206								
fine sand & water		206	208								
brown clay		208	220								
water & sand		220	226								

3/3

brown clay	226	231
blue clay	231	
Well located according to Skagit County ordinance #12.48.		

Skagit County Well Report

The Department of Ecology does NOT Warrant the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 000632

Permit No. _____

(1) **OWNER:** Name Darryl Schuetz Address 1311 Wildwood Anacortes Wa, 98221

(2) **LOCATION OF WELL:** County Skagit NW 1/4 NW 1/4 Sec. 11 T. 34 N. R. 1 W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic Industrial Municipal
Irrigation Test Well Other

(4) **TYPE OF WORK:** Owner's number of well (if more than one) _____
New well Method: Dug Bored
Deepened Cable Driven
Reconditioned Rotary Jetted

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 280 ft. Depth of completed well 264 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6" Diam. from 0 ft. to 259 ft.
Threaded " Diam. from _____ ft. to _____ ft.
Welded " Diam. from _____ ft. to _____ ft.

Perforations: Yes No
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

Screens: Yes No Johnson
Manufacturer's Name _____
Type 57 Model No. _____
Diam. 57 Slot size _____ from 257 ft. to 264 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel _____ ft. to _____ ft.
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) **PUMP:** Manufacturer's Name _____
Type _____ HP _____

(8) **WATER LEVELS:** Land-surface elevation above mean sea level. _____
Static level 130 ft below top of well Date 12-3-87
Artesian pressure _____ lbs per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? _____
Yield _____ gal./min with _____ ft drawdown after _____ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level):
Time Water Level Time Water Level Time Water Level

Date of test _____
HR Turbidity test 26 p.m. min. with 125 ft drawdown after _____ hrs.
Artesian flow _____ g.p.m Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(10) **WELL LOG:**

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Dirty Sand & Gravel	0	15
Blue Clay	15	260
Sand & Water & Clay	260	264
Blue Clay	264	280

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DEC 29 1987

DEPARTMENT OF ECOLOGY

Work started 11-30 19 87, Completed 12-3 19 87

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Dahlman Pump & Well Drilling Inc.
(Person, firm, or corporation) (Type or print)

Address P O Box 422 Burlington Wa. 98233

(Signed) Heather S. [Signature]
(Well Driller)

License No. 0623 Date 12-9 19 87

(USE ADDITIONAL SHEETS IF NECESSARY)

84310

SC Well ID: 2978		DOE Well ID:		Unique Well ID:		NOI		Water Right Permit #			
Owner											
Last Name		First Name		Organization		Road		City	State	Zip	
Madeja		Sam		1382 Eagle Crest LN		Anacortes	WA	98221			
Location											
Parcel		Road		City	Zip	Q2	Q1	S	T	R	Elevation
19172		1382 Eagle Crest LN		Anacortes	98221	SW	SW	11	34	1	
Delegation											
Notified Inspector		Inspection Date		DOE Date		SCHD Date		Seal Timing	Decommissioned Method	Inspected Problems	
				19860207		19860328					
Dimensions					Water Levels						
Diameter		Depth		Completed Depth		Flow	Measured By		Depth	Measured Date	
6		179		179			146			19860108	
Work											
Proposed Use		Work Type		Method		Owners Well Number		Started	Completed		
Domestic		New Well		Rotary				19860107	19860108		
Casing					Perforation						
Connection Method		Diameter	Top	Bottom	Type	Size	Quantity	Top	Bottom		
		6	0	174							
Screens											
Manufacturer		Type		Model	Diameter		Slotsize	Top	Bottom		
Pump											
Manufacturer		Type		Horsepower		Gravel Pack Size	Top	Bottom			
Surface Seal											
Depth		Seal		Method		Unusable Water Water Type		Depth	Method		
18		bentonite									
Temperature Reading					Artesian Pressure						
Temperature		Date Measured		Measured By		Pressure	Measured Date		Controlled By		
Well Tests											
Type		Yield (gpm)		Drawdown/Stemset Hours		Measured By		Measured Date			
Air		6		1.5							
Well Log					Driller						
Material		Top		Bottom	Contractor		Last Name	First Name	License		
top soil		0		2	Dahlman		Fowler	Ken	1192		
brown sand & gravel		2		38							
brown clay & gravel		38		104							
brown clay		104		115							
blue clay		115		130							
brown clay		130		176							
fine sand & water		176		179							

74607

34112118 P19182

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No. 071973
Water Right Permit No.

(1) OWNER: Name BERST, BARBARA Address 295 SHARPE ROAD ANACORTES, WA 98221-

- NW 1/4 NE 1/4 Sec 11 T 34 N., R 1E W4

(2) LOCATION OF WELL: County SKAGIT
(2a) STREET ADDRESS OF WELL (or nearest address) 295 SHARPE ROAD

(3) PROPOSED USE: DOMESTIC

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well (if more than one) 1
NEW WELL Method: ROTARY

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 235 ft. Depth of completed well 234 ft.

MATERIAL	FROM	TO
TOPSOIL	0	1
BROWN CLAY & GRAVEL	1	65
GRAY CLAY	65	70
GRAY CLAY & GRAVEL	70	73
GRAY CLAY	73	90
GRAY SAND & MUD & WATER	90	93
GRAY CLAY & SAND	93	172
GRAY CLAY	172	183
GRAY CLAY & SAND	183	190
GRAY CLAY	190	205
GRAY CLAY & GRAVEL	205	230
GRAY GRAVEL & SAND & WATER	230	

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 2.5 ft. to 234 ft.
WELDED " Dia. from ft. to ft.
" Dia. from ft. to ft.

Perforations: NO
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: NO
Manufacturer's Name
Type
Dian. slot size Model No. from ft. to ft.
Dian. slot size from ft. to ft.

Gravel packed: NO
Gravel placed from ft. to ft. Size of gravel

Surface seal: YES To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 152 ft. below top of well Date 09/11/91
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

Work started 09/10/91 Completed 09/11/91

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? NO If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Recovery data
Time Water Level Time Water Level Time Water Level

NAME HAYES DRILLING, INC.
(Person, firm, or corporation) (Type or print)

Date of test 1/1
Bailer test gal./min. ft. drawdown after hrs.
Air test 6 gal./min. w/ stem set at 231 ft. for 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? NO

ADDRESS 556 ERSKIG RD. BOM WA
[SIGNED] License No. 1825
Contractor's Registration No. HAYESDI10635 Date 09/24/91

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

SC Well ID: 2914		DOE Well ID:		Unique Well ID:		NOI071973		Water Right Permit #	
Owner									
Last Name	First Name	Organization		Road		City	State	Zip	
Berst	Barbara	295 Sharpe RD		Anacortes	WA	98221			
Location									
Parcel	Road	City	Zip	Q2	Q1	S	T	R	Elevation
19182	295 Sharpe RD	Anacortes	98221	NW	NE	11	34	1	
Dimensions					Water Levels				
Diameter	Depth	Completed		Depth	Flow	Measured By		Depth	Measured Date
6	235	234				152			19910911
Work									
Proposed Use	Work Type	Method		Owners Well Number	Started	Completed			
Domestic	New Well	Rotary			19910910	19910911			
Casing					Perforation				
Connection Method	Diameter	Top	Bottom	Type	Size	Quantity	Top	Bottom	
	6	2.5	234						
Screens									
Manufacturer	Type	Model	Diameter	Slotsize	Top	Bottom			
Pump					Gravel Pack				
Manufacturer	Type	Horsepower		Size	Top	Bottom			
Goulds	submersible	0.75							
Surface Seal					Unusable Water				
Depth	Seal	Method		Water Type	Depth	Method			
18	bentonite								
Temperature Reading					Artesian Pressure				
Temperature	Date Measured	Measured By		Pressure	Measured Date	Controlled By			
Well Tests									
Type	Yield (gpm)	Drawdown/Stemset		Hours	Measured By	Measured Date			
Pump	10			1.5	Jerry Bacus				
Air	6	231		1					
Well Log					Driller				
Material	Top	Bottom		Contractor	Last Name	First Name	License		
top soil	0	1		Hayes Drilling	Hopke	Brannon	1825		
brown clay & gravel	1	65							
gray clay	65	70							
gray clay & gravel	70	73							
gray clay	73	90							
gray sand, wood , & water	90	93							
gray clay & sand	93	172							
gray clay	172	183							
gray clay & sand	183	190							
gray clay	190	205							

brown clay & gravel	205	230
gray gravel, sand, & water	230	

Skagit County Well Report

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's Copy

P19191

74758

34/01-11K

WATER WELL REPORT

Application No

STATE OF WASHINGTON

Permit No.

(1) OWNER: Name Betty Rumball Address Sharpe Rd. Anacortes WA

(2) LOCATION OF WELL: County Skagit - NW 1/4 SE 1/4, Sec. 11 T. 34 N., R. 1 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic Industrial Municipal
Irrigation Test Well Other

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
New well Method: Dug Bored
Deepened Cable Driven
Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 346 ft. Depth of completed well 346 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from +2 ft. to 338 ft.
Threaded " Diam. from _____ ft. to _____ ft.
Welded " Diam. from _____ ft. to _____ ft.

Perforations: Yes No
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

Screens: Yes No
Manufacturer's Name Johnson
Type Stainless Steel Model No. _____
Diam. 6" Slot size 8 from 341 ft. to 346 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 18 ft.
Material used in seal Puddeling Clay
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 120 ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " "
" " " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Baller test 10 gal./min. with 20 ft. drawdown after 1 hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Topsoil	0	1 1/2
Brown clay	1 1/2	8
Brown clay & sand	8	15
Brown gravel & sand & clay	15	19
Brown dirty dry fine sand	19	76
Gray dirty seepage, fine sand	76	84
Gray gumbo clay	84	296
Gray clay and gravel, water - dirty	296	318
Silty gray clay & seepage	318	328
Fine gray sand & water	328	

Work started 7-15-85 1985 Completed 7-18-85 1985

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Hayes Well Drilling & Pumps, Inc.
(Person, firm, or corporation) (Type or print)

Address 1413 Colony Rd. Bow

[Signed] Steve Stober
(Well Driller)

License No. 762 Date 1/19 1987

(USE ADDITIONAL SHEETS IF NECESSARY)