

1329 North State Street, Suite 301 | Bellingham, WA 98225 | 360 594 6262 | www.maulfoster.com

September 28, 2017 Project No. 1268.02.01

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

Re: Observation Well Installation Lake Erie Pit Expansion Skagit County, Washington

Dear Mr. Taylor:

Maul Foster & Alongi, Inc. (MFA) has prepared this letter report describing the drilling and installation of an observation well at the Lake Erie Pit located near Anacortes, Washington (the site) (Figure 1). MFA understands that McLucas & Associates, Inc.'s (MAI's) client, Lake Erie Pit 1, LLC (Lake Erie Pit), operates a permitted sand and gravel quarry (the mine) at the site and recently submitted a Mining Special Use Permit application (with components prepared by MFA on behalf of MAI, including a hydrogeologic assessment) to Skagit County (the County) to expand the mineral resource overlay zoning. MFA also understands that MAI has been notified by the County that the owner of an adjacent property, on which Devil's Elbow Lake (the lake) is located, is concerned that expansion of the mine may lower water levels in the lake.

To address the adjacent property owner's concern, MFA recommended that an observation well be installed to verify hydrogeologic conditions and a groundwater surface elevation in the south portion of the site between the existing mine and the lake. This letter report presents MFA's observations and findings during the drilling and installation of the observation well and expands upon the findings of our prior hydrogeologic assessment (MFA, 2016).

BACKGROUND

The site is located near 13540 Rosario Road, Anacortes, Washington in the southeast quarter of the northwest quarter of section 11, township 34 north, range 1 east, Willamette Meridian (see Figure 1). Lake Erie Pit is applying for a Mining Special Use Permit from the County for the development of the following tax parcels as a surface mine for aggregate resources: P19161, P19164, P19158, P90028, and P19155.

The mine will be dry mined using standard surface mining equipment (i.e., front end loaders and excavators). The mined sand and gravel will be loaded into trucks and transported off the site. The maximum floor depth of the mine is proposed to be no lower than an elevation of

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250 feet above mean sea level (msl) and will not extend below 10 feet above the seasonal high groundwater table beneath the site.

MFA prepared a hydrogeologic assessment (MFA, 2016) as part of the Mining Special Use Permit application. A groundwater surface elevation beneath the site was inferred from water levels observed innearby wells. The inferred groundwater surface elevation was approximately 50 feet or more below the proposed maximum mine floor elevation of 250 feet msl (MFA, 2016). However, the assessment did not identify any water wells located between the mine and the lake. Further, the potential presence of a perched water-bearing zone in the area between the mine and the lake could not be verified. It is MFA's understanding that the adjacent property owner was concerned that a perched water-bearing zone may be present and, if encountered during mining operations, could lower water levels in the lake. Therefore, an observation well was installed to evaluate the potential presence of a perched water-bearing WELL DRILLING OBSERVATIONS

Lake Erie Pit contracted Aquatech Well Drilling and Pumps, Inc. (Aquatech) of Sedro-Woolley, Washington to drill and install the observation well. MFA observed the drilling and documented subsurface conditions and well installation and construction details. Mr. Andy Dunn of RH2 Engineering, Inc., a representative of the adjacent property owner, was also on site to observe the first day of drilling.

Aquatech drilled the Observation well (Washington State Department of Ecology Well ID BJF-103) on September 18 and 19, 2017. The well was drilled using a GEFCO Speedstar 30K air rotary rig. Using a tri-cone bit, Aquatech advanced a 10-inch diameter steel casing from ground surface to approximately 18 feet below ground surface (bgs) and then advanced a 6-inch diameter steel casing to approximately 277 feet bgs. A bentonite surface seal was installed between the 6-inch and 10-inch casings and then the 10-inch casing was removed. The well was completed as a cased well with an open bottom (i.e., no screen or perforated liner). The ground surface elevation next to the well was measured using a Trimble Geo7X GPS and was determined to be approximately 445.6 feet above msl. **FINDINGS**

Sand, gravel, and silt were encountered during drilling (see attached geologic log). The upper approximately 35 feet were interpreted to be glacial till due to the presence of fines and larger diameter gravel, and possibly cobbles, in that section. The underlying differentiated unconsolidated material (i.e., sand, gravel, and silt) is interpreted to be glacial outwash deposits.

A moist sand unit was encountered between approximately 57 and 130 feet bgs. However, no perched water was encountered. The sand and gravel units underlying the moist sand remained

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dry until approximately 180 feet bgs. At that depth, the lithology became moist as it changed to sand with silt (180 to 189 feet bgs). At approximately 190 feet bgs, the drillers began to add water to the boring in order to remove fines adhered to the casing. Therefore, from that point forward, moisture observations varied between moist to wet depending on the amount of water being added. However, the driller's observations did not identify a substantial water-bearing zone.

Following completion of the well, a water level was measured at approximately 263 feet bgs. However, the water level may have been influenced by the addition of water during drilling. Therefore, another water level was measured by Aquatech on September 23, 2017; the measured value was 255.4 feet bgs. Based on the measured ground surface elevation, the water level is equivalent to a groundwater surface elevation of 190.2 feet above msl. Based on the lithology encountered in the boring, groundwater appears to be present in an unconfined aquifer.

The measured groundwater elevation is consistent with the inferred groundwater elevation presented in the hydrogeologic assessment (MFA, 2016). Devil's Elbow Lake, which is located approximately 560 feet to the south, has an approximate surface elevation of 363 feet above msl. The lake's surface elevation is comparable to approximately 83 feet bgs in the well boring. Although the sand unit encountered between 57 and 130 feet bgs was observed to be moist, a perched water-bearing zone was not encountered. Further, the lithology remained dry sand and gravel to a depth of approximately 180 feet bgs. These observations indicate that a hydraulic connection does not exist between the lake and the lithologic units proposed to be mined.

The groundwater surface elevation beneath the site (see Figure 1) is inferred to range from approximately 180 to 200 feet above msl with groundwater flowing beneath the site generally toward the north-northeast. Groundwater elevations beneath the site are inferred to be approximately 60 to 70 feet below the proposed maximum mine floor elevation of 250 feet above msl. (see Figure 2).

CONCLUSIONS

The drilling and installation of an observation well at the Lake Erie Pit determined that groundwater underlying the site is present in an unconfined aquifer at approximately 190 feet above msl. The groundwater elevation measured in the well was approximately 60 feet below the proposed maximum mine floor elevation of approximately 250 feet above msl. No perched water-bearing zones were identified during drilling at depths comparable to the surface elevation of Devil's Elbow Lake. Consistent with the findings of the hydrogeologic assessment (MFA, 2016), groundwater beneath the site is inferred to flow north-northeast and ultimately to discharge to Lake Erie. Groundwater is also inferred to be approximately 60 to 70 feet below the planned total mining depth.

Hydrogeologic observations collected during drilling did not indicate the potential for a hydraulic connection between the lithologic units proposed to be mined and the lake. Therefore, it does not appear that expansion of the Lake Erie Pit will affect water levels in the Devil's Elbow Lake.

Sincerely,

Maul Foster & Alongi, Inc.



09.28.2017

Thomas F. Mullen, LHG Senior Hydrogeologist

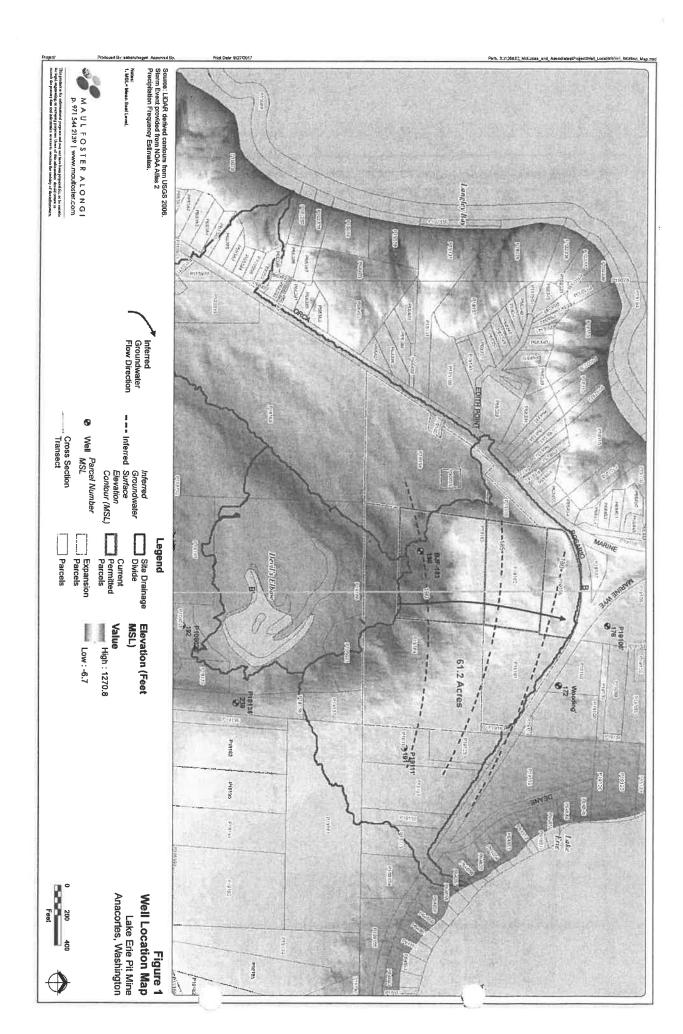
Attachments: Limitations

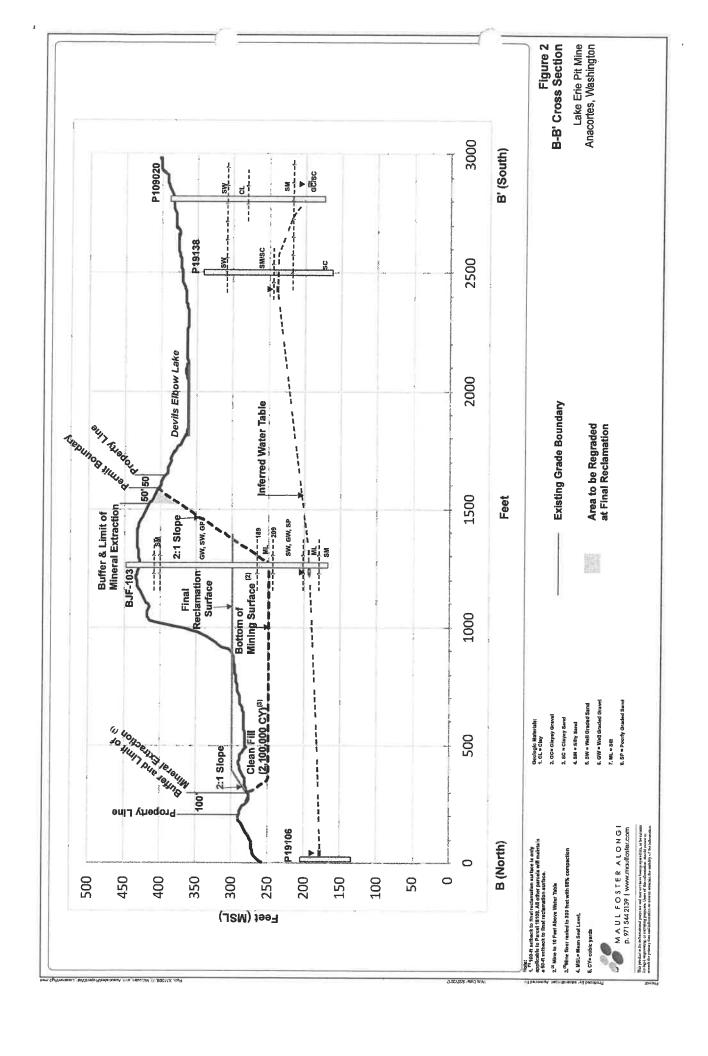
Reference Figures

Attachment—Geologic Borehole Log/Well Construction

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.





ATTACHMENT

GEOLOGIC BOREHOLE LOG/WELL CONSTRUCTION

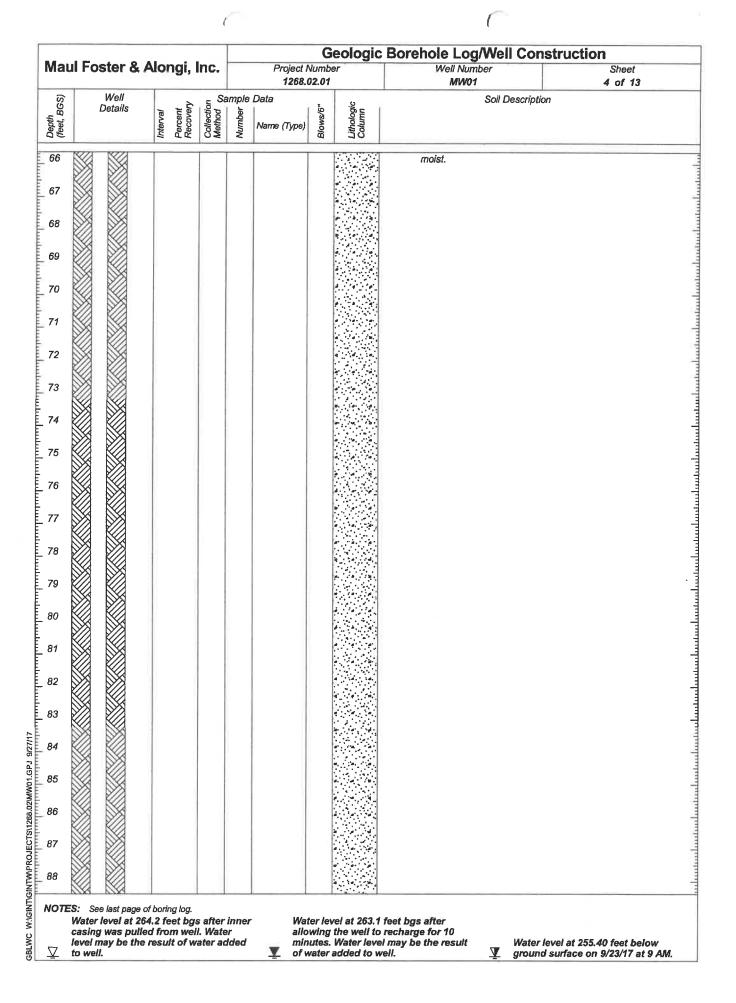


Maul	Foster &	Alongi, li	nc.	Project I		r	Well Number Sheet		
				1268.	02.01		MW01	1 of 13	
Project Name Project Location Start/End Date Driller/Equipment Geologist/Engineer Sample Method		Lake Erie P Anacortes, 9/18/17 to 9 Aquatech W H. Good/C. Air Rotary	WA /19/17 Vell Dri	lling & Pumps/Si	tar 30K		TOC Elevation (feet) 448.422 Surface Elevation (feet) 445.6 Northing 533988. Easting 1199026 Hole Depth 277.0-fe Outer Hole Diam 6-inch		
(3)	Well		_ San	nple Data			Sail Description		
Depth (feet, BGS)	Details	Interval Percent Recovery	Method	Name (Type) Blows/6 Column					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							O to 3.0 feet: SAND with GRAVEL (SW); ligh sand, fine to medium, very loose; 10% g 2-inch-diameter; non-plastic; non-cohesi 3.0 to 27.0 feet: GRAVELLY SAND (SW); gr fine to medium, very loose; 20% gravel, 2-inch-diameter; trace 3- to 4-inch-diameter.	ravel, rounded, 1- to ive; dry. ay; 5% fines; 75% sand, rounded, 1- to	
20									
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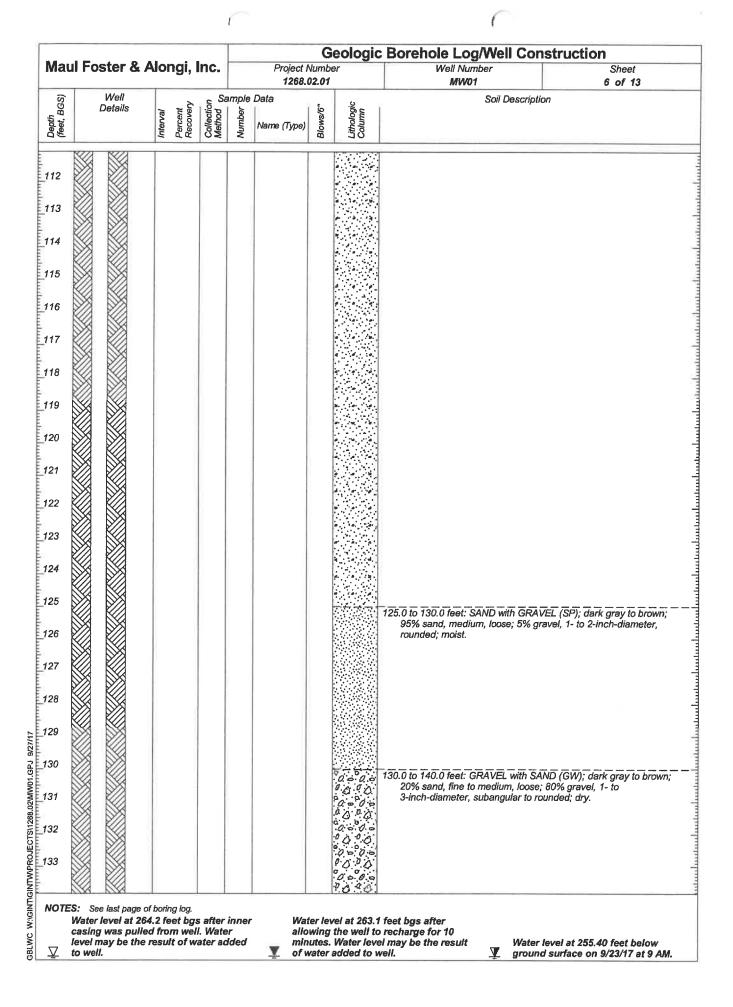


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27									27.0 to 30.0 feet: SANDY GRAVEL	(GW); gray; 5% f	ines; 35% sand
28								$\mathcal{A}\mathcal{Q}$	fine to medium, very loose; 60% to 4-inch-diameter rounded grav	gravel, medium, vel; dry.	rounded; trace
29											
30									30.0 to 35.0 feet: GRAVELLY SAND	(SW); gray; 5%	fines; 75% san
31								0.00	fine to medium, very loose; 20% rounded; dry.	gravel, 1- to 2-in	nch-diameter,
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32								· () ·			
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35								; O D	35.0 to 42.0 feet: GRAVELLY SAND sand, medium, very loose; 20%	(SW); dark gray	to brown; 80%
36									rounded; dry.	graver, 1- 10 2-m	sir-qiairieter,
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44			ŀ						* U		
45											
46										46.0 to 49.0 feet: GRAVELLY SAND	(SW); dark gray to brown; 80%
47									• 6 •	sand, medium, very loose; 20% rounded; dry.	gravél, 1- to 2-inch-diameter,
48									, O. O		
49											
50										49.0 to 53.0 feet: SILTY SAND (SM), plasticity; 60% sand, fine, loose; rounded; dry.	; light gray; 35% fines, low 5% gravel, 1- to 2-inch-diamete
51										,	
52											
53										53.0 to 60.0 feet: SAND with SILT (S plasticity; 75% sand, medium, lo	ose; 10% gravel, 1- to
54										3-inch-diameter, rounded; dry to	o moist.
55											
56											
57										@ 57.0 feet: moist.	
58											
59											
60											
61									8	60.0 to 65.0 feet: SAND with GRAVE fines, non-plastic; 80% sand, me gravel, fine, rounded; moist.	בה (טיע): uark gray to brown; 5% edium to coarse, loose; 15%
62									a		
63									b		
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64									d		
65										65.0 to 100.0 feet: SAND with GRAV sand, medium, loose; 10% grave	/EL (SW); dark gray to brown; 9 el. 1- to 2-inch-diameter. rounde
ΝΟΤΙ		ee last page level at 20			s after	inne	r Wa	ter le	evel at 263	1 feet bgs after	
∇	casin	g was pull may be the	ed fro	om we	II. Wate	er	allo mir	wing nutes	the well to	o recharge for 10 el may be the result Wate.	r level at 255.40 feet below nd surface on 9/23/17 at 9 AM.



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100										100.0 to 125.0 feet: SAND with GRA 90% sand, medium to coarse, lo	VEL (SW); dark	gray to brown;
101										3-inch-diameter, subangular to r	ounded; moist.	, 1-10
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130									0000		
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140									00000	140.0 to 150.0 feet: GRAVEL with SA	ND (GP): gray to dark
141									0000	grayish-brown; 10% sand, mediu 2-inch-diameter, subangular to n	ım to coarse; 90% gravel, 1- to
									00000		
142									00000		
143									00000		
144									00000		
4 45									0000		
145									00000		
146									0000		
147									00000		
148									00000		
									0000		
149									00000		
150									0000	150.0 to 155.0 feet: GRAVELLY SAN	
151									0.00	sand, medium to coarse; 40% gi subangular to rounded; loose; di	ravel, 1- to 2-inch-diameter, y.
152									0.0		
152 153									· 🗘 °		
153									0.0		
154									0.		
155									D 0		
1 <i>5</i> 6									0000	155.0 to 160.0 feet: GRAVEL with Sa grayish-brown; 10% sand, media 2-inch diameter, subangular to r	um to coarse; 90% gravel, 1 to
106									0000	z-mon diameter, subangular to r	ournaeu, roose, ary.
NOT		See last page er level at 2			ıs after	inne	r Wa	ter le	evel at 263	l feet bgs after	
	casii	er level at 2 ng was pui may be th	lled fn	om we	II. Wat	er	allo	owing	g the well to	o recharge for 10 el may be the result Water	r level at 255.40 feet below nd surface on 9/23/17 at 9 AM.

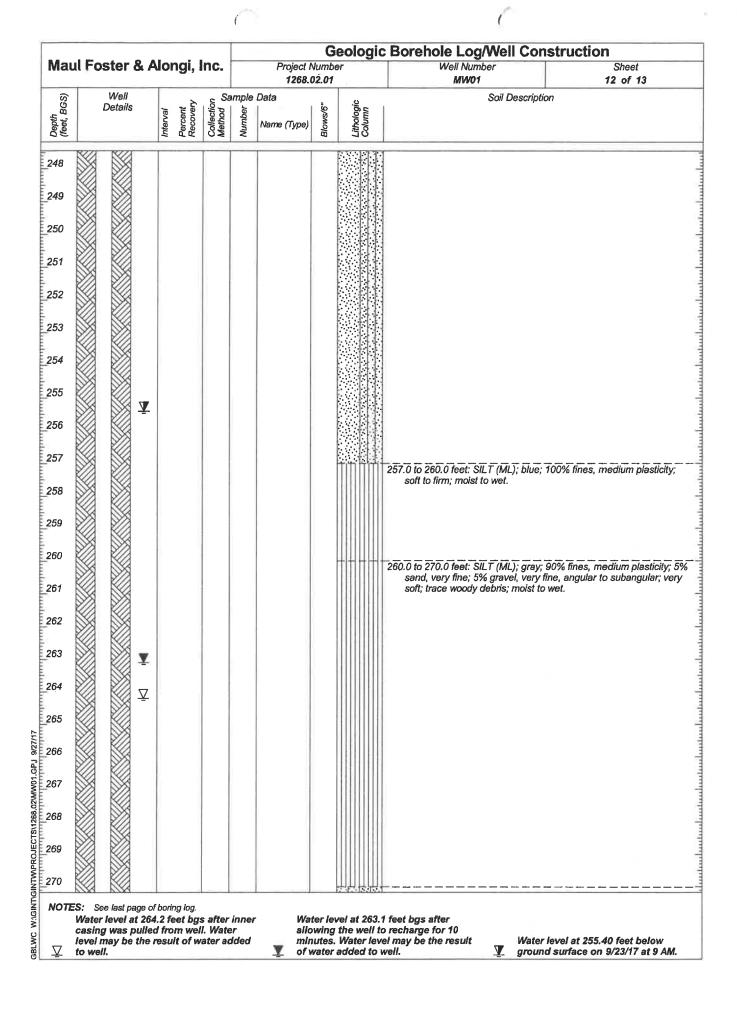


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	T	Well			Se	mple	1268.0	02.01	Ī	MW01 Soil Descrip	8 of 13	
Depth (feet, BGS)		Details	Interval	Percent Recovery	Collection Method o	Number 5	Name (Type)	Blows/6"	Lithologic Column	dui bedanp	uon	
157									00000			
158									00000			
100									00000	@ 158.0 feet: more gravel chips.		
159									00000			
400									00000			
160									0000	160.0 to 165.0 feet: SAND with GRA	AVEL (SW); brown; 90% sand,	
161										medium, loose; 10% gravel, 2- rounded; dry.	to 3-inch-diameter, subrounded to	
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162												
163												
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164									a '0' 'a'			
165									e. e.			
									s . ss	165.0 to 168.0 feet: SAND (SW); 10 medium gravel; loose; moist.	00% sand, medium to coarse; tra	
166												
167									a			
									9			
168									00000	168.0 to 170.0 feet: GRAVEL with S	SAND (GW); light gray; 20% sand	
169									0.000	fine to medium; 80% gravel, 1- rounded; loose; dry.	to 4-inch-diameter, subrounded t	
									00.00			
170									0.0.0.0	170 to 173.0 feet: SAND (SW); 100	% sand, medium to coarse; trace	
171									0 0 0	medium gravel; loose; dry.		
									10.			
172									p 0. 10			
173												
									0000	173.0 to 175.0 feet: GRAVEL with S to medium; 80% gravel, fine to	coarse, 1- to 2-inch-diameter,	
174									00000	subrounded to rounded; loose;	ary.	
175									0.0.0.0		NB7807	
4=-									0.77.0.		ND (SW); grayish-brown; 80% gravel, fine to medium, subrounde	
176) b 0	to rounded; loose; dry.		
177									0.0			
										177.0 to 180.0 feet: SANDY GRAVE sand, medium to coarse; 80% g	gravel, fine to medium, subrounde	
178										to rounded; sand and gravel co dry.	ated with fine reddish-brown sand	
179												
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14011	Water	ee last page level at 2	64.2 f	eet bg:						feet bgs after		
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	KW.	1800							3-4. 23			
180										180.0 to 180.0 fact: \$4ND w	ith SII T (S	SW-SM); light brown; 10% fines,
										soft; 80% sand, very fine	to fine; 10	0% gravel, fine; trace fine,
181										rounded gravel; moist.		3
182												
102												
183												3
184												
185												
196												
186												9
187												
188												
189										189.0 to 200.0 feet: SANDY	SILT (ML)	: light brown: 80% fines, low
400										plasticity; 20% sand, ver	ry fine to fil	ne; soft; moist.
190										@ 190.0 feet: Drillers began	adding wa	ater into casing to allow finer
191										materials to move through	gh the casi	ing.
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200											. – <i>–</i> – =	
201										200.0 to 209.0 feet: SILT (M sand, very fine; soft; mo	ıL); blue; 9 oist.	5% fines, medium plasticity; 5%
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198 199 200 201 202 NOT		ee last pag <mark>r level at</mark>			js afte	r inne				l feet bgs after		
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210										gravel, fine, angular	to subangulai	r; moist to wet.	
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211													-
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E									~ -	212.0 to 220.0 feet: SAN	IDY GRAVEL	(GW); brown; 40% sand, fine t	to
213									∞	angular to subangula	ar; moist to we	% gravel, fine to medium, et.	
Ē									100				
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219									.00.				
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220										220.0 to 240.0 feet: SAN	ID with GRAVI	EL (SP); light brown; 90% sand	d,
221										very fine to fine; 10% in fine sand with dep	6 gravel, fine,	angular to subangular; increas	e
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220 221 221 222 222 223 224 NOTE	Water	level at 2	64.2 fe	eet bg.						feet bgs after			
	casing was pulled from well. Water level may be the result of water added							minutes	. Water leve	o recharge for 10 el may be the result	Water I	evel at 255.40 feet below	
<u> Y</u>							<u>v</u>	of water	added to v	vell.	▼ ground	surface on 9/23/17 at 9 AM.	

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	T	Well			s Se	mple)Z.U I		Soil Description	77 07 13
Depth (feet, BGS)		Details	Interval	Percent Recovery	Collection Method S	Number	Name (Type)	Blows/6"	Lithologic Column		
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										240.0 to 257.0 feet: SAND with SILT (SF 90% sand, very fine; moist to wet.	r-SM); light brown; 10% fines
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	Wate	r level at a	264.2	feet bo	ys after	r inne er	r Wa	iter le owin	evel at 263.1 g the well to	l feet bgs after o recharge for 10	



Borehole Completion Details:

0 to 18.0 feet bgs: 10-inch borehole. 18.0 to 277.0 feet bgs: 6-inch borehole. 0 to 18.0 feet bgs: bentonite chips hydrated with potable water. 18.0 to 277.0 feet bgs: slough.

Well Completion Details:

2.80 to 0 feet above ground surface: 6-inch-diameter, steel pipe. 0 to 276.6 feet bgs: 6-inch-diameter, steel pipe. 276.6 to 277.0 feet bgs: 6-inch-diameter tapered drill bit.

Ecology Well Tag No. = BJF-103

Notes: 1. bgs = below ground surface. 2. Monitoring well installed using 4.5-inch drill rod with 5.875-inch tri-cone drill bit. 3. Ten-inch-diameter hole to 18 feet bgs and 6-inch-diameter hole from 18 to 277 feet bgs. 4. At approximately 190 feet bgs, drillers began adding water into casing to allow finer soils to move through the casing. 5. Drillers noted a significant water-bearing zone was not encountered. Moisture content between 190 and 277 feet bgs, is the result of water added and removed by the drillers and potentially saturated lenses of soils.

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NOTES: See last page of boring log. Water level at 264.2 feet bgs after inner casing was pulled from well. Water level may be the result of water added to well.

Water level at 263.1 feet bgs after allowing the well to recharge for 10 minutes. Water level may be the result of water added to well.

