



STATE OF ALASKA 36929
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: \_\_\_/\_\_\_/\_\_\_ Completed: 5 / 1 / 2013 Pump Install: \_\_\_/\_\_\_/\_\_\_

Table with 5 columns: City/Borough, Subdivision, Block, Lot, Property Owner Name & Address. Values: Bristol Bay Borough, Silver Bay Seafoods AK,

Well location: Latitude 58.7448616 Longitude -156.95546
Meridian S Township 016S Range 046W Section 33 SW 1/4 of NE 1/4 of NW 1/4 of SE 1/4

BOREHOLE DATA: (from ground surface)
Suggest T.M. Hanna's hydrogeologic classification system\*
https://my.ngwa.org/NC Product?id=a18500000BYub3AAD

Table for Borehole Data with columns: Depth From, Depth To. Multiple empty rows for data entry.

Drilling method: [x] Air rotary, [ ] Cable tool, [ ] Other
Well use: [x] Public supply, [ ] Domestic, [ ] Reinjection, [ ] Hydrofracking
[ ] Commercial, [ ] Observation/Monitoring, [ ] Test/Exploratory, [ ] Cooling,
[ ] Irrigation/Agriculture, [ ] Grounding, [ ] Recharge/Aquifer Storage,
[ ] Heating, [ ] Geothermal Exploration, [ ] Other

Fluids used:
Depth of hole: 253 ft Casing stickup:
Casing type: Casing thickness: inches
Casing diameter: inches Casing depth: ft
Liner type: Depth: ft Diameter: inches
Note:

Well intake opening type: [ ] Open end, [ ] Open hole, [x] Other screened
Screen type: Screen mesh size:
Screen start: ft, Screen stop: ft, Perforated [ ] Yes [x] No
Perforation description: Perf from: ft, Perf to: ft, Perf from: ft, Perf to: ft
Gravel packed [ ] Yes [x] No Gravel start: ft, Gravel stop: ft
Note:

Static water (from top of casing): ft on \_\_\_/\_\_\_/\_\_\_ Artesian well [ ]
Pumping level & yield: feet after \_\_\_ hours at \_\_\_ gpm
Method of testing:
Development method: Duration:
Recovery rate: gpm

Grout type: Volume
Depth: From ft, To ft

Include description or sketch of well location (include road names, buildings, etc.):

Final pump intake depth: ft Model:
Pump size: hp Brand name:

Was well disinfected upon completion? [ ] Yes [x] No
Method of disinfection:
Was water quality tested? [ ] Yes [x] No
Water quality parameters tested:

Well driller name:
Company name: Johnson Drilling Co.
Mailing address:
City: State: AK Zip:
Phone number: ( ) -

Driller's signature:
Date: / /

Anchorage Municipal Code 15.55.060(I) and North Pole Ordinance 13.32.030(D) require that a copy of this well log be submitted to the Development Services Department/City within 30 days of well completion.

City Permit Number:
Date of Issue: / /
Parcel Identification Number: - -

AS 41.08.020(b)(4) and AAC 11 AAC 93.140(a) require that a copy of the well log be submitted to the Department of Natural Resources within 45 days of well completion. Well logs may be submitted using the online well log reporting system available at:
https://dnr.alaska.gov/welts/
OR email electronic well logs to
dnr.water.reports@alaska.gov

\*Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes by Thomas M. Hanna NGWA Press



STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINING, LAND & WATER

WATER WELL LOG

Drilling Started: 4 / 24 / 2013 Completed: 5 / 1 / 2013 Pump Install: 10 / 1 / 2013

City/Borough:	Subdivision:	Block	Lot	Property Owner Name & Address:
Naknek				Silver Bay Seafoods Well #1
Latitude 58° 44' 41.25" N		Longitude 156° 57' 15.66" W		
Meridian		Township	Range	Section
				1/4 of 1/4 of 1/4 of 1/4
<b>BOREHOLE DATA:</b> (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system * <a href="https://info.ngwa.org/servicecenter/shopper/ProductDetail.cfm?ProdCompanyPassed=ngw&amp;ProdCdPassed=ngw-t1030">https://info.ngwa.org/servicecenter/shopper/ProductDetail.cfm?ProdCompanyPassed=ngw&amp;ProdCdPassed=ngw-t1030</a>				Drilling method: <input checked="" type="checkbox"/> Air rotary, <input type="checkbox"/> Cable tool, <input type="checkbox"/> Other
Well use: <input checked="" type="checkbox"/> Public supply, <input type="checkbox"/> Domestic, <input type="checkbox"/> Reinjection, <input type="checkbox"/> Hydrofracking				Fluids used: <u>None</u>
Depth From To				<input type="checkbox"/> Other
Fine Brown Sand	0 -	25	Depth of hole: 256 ft, Casing stickup: 3 ft	
Brown, Wet Silty Sand	25 -	30	Casing type: <u>Steel</u> Wall thickness: .322 inches	
Brown Sand and Gravel, Wet	30 -	35	Casing diameter: 8 inches Casing depth: 241 ft	
Clayey Sand and Gravel	35 -	40	Liner type: <u>none</u> Depth: 5 ft Diameter: inches	
Clay and Gravel Mixed	40 -	70	Well intake opening type: <input type="checkbox"/> Open end, <input type="checkbox"/> Open hole, <input type="checkbox"/> Other	
Medium Gravel and Sand	70 -	80	Screen type: <u>Stainless Steel</u> Assembly From: 241 ft, To 256 ft	
Coarse Gravel and Sand	80 -	100	Slot size 30 From: 241 ft, To 246 ft	
Clay and Gravel Mixed	100 -	130	Slot size 60 From: 246 ft, To 256 ft	
Clayey Sand	130 -	140	<input type="checkbox"/> Perforation description From: ft, To ft	
Mixed Gravel and Sand	140 -	150	From: ft, To ft From: ft, To ft	
Coarse Sand and Gravel	150 -	175	Gravel packed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From ft, To ft	
Silty Sand	180 -	190	Static water (from top of casing): 62 ft on 10 / 1 / 2013	
Silty Sand and Gravel	190 -	210	Pumping level & yield: 140 feet after 2 hours at 430 gpm	
Clayey Sand and Gravel	210 -	230	Method of testing: <u>Submersible Pump 30 HP</u>	
Fine Black Sand, lots of water	230 -	240	Development method: <u>Air Surge</u> Duration: 8 hrs	
Coarse Sand and Gravel	240 -	256	Recovery rate: 3 min gpm	
			Grout type: <u>Standing Bentonite Column</u> Volume <u>8 bags</u>	
			Depth: From <u>Surface</u> ft, To <u>20</u> ft	
			Final pump intake depth: <u>210</u> ft Model: <u>7CLC 3 Stage Goulds</u>	
			Pump size <u>30</u> hp Brand name <u>Grundfos Motor</u>	
			Was well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			Method of disinfection: <u>Sodium Hypochlorite 50+ PPM</u>	
			Was water quality tested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			Water quality parameters tested: <u>PWA + Arsenic</u>	
			Well driller name: <u>Steve Thomas</u>	
			Company name: <u>Johnson Drilling Co.</u>	
			Mailing address: <u>3705 Arctic #412</u>	
			City: <u>Anchorage</u> State: <u>AK</u> Zip <u>99503</u>	
			Phone number: (907) <u>250</u> - <u>5051</u>	
			Driller's signature: <u>[Signature]</u>	
			Date: <u>6</u> / <u>10</u> / 2013	

AS 41.06.020(b)(4) and AAC 11 AAC 93.140(a) require that a copy of the well log be forwarded to the Department of Natural Resources within 45 days of well completion. Please email well logs to:

[dnr.water.reports@alaska.gov](mailto:dnr.water.reports@alaska.gov) OR send to

Alaska DNR, MLW, Alaska Hydrologic Survey  
550 West 7<sup>th</sup> Avenue, Suite 1020  
Anchorage, AK 99501

Anchorage Municipal Code 15.55.060(f) requires that a copy of this well log be forwarded to the Development Services Department within 30 days of well completion.

City Permit Number: \_\_\_\_\_  
Date of Issue: \_\_\_\_\_

Parcel Identification Number: \_\_\_\_\_

Is well located at approved permit location?  Yes  No

\* Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes by Thomas M. Hanna NGWA Press