



STATE OF ALASKA 36670
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: 5 / 13 / 2013 Completed: 5 / 22 / 2013 Pump Install: / /

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Bristol Bay Borough				Silver Bay Seafoods AK,

Well location: Latitude 58.7453957 Longitude -156.955475
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=a185000000BYub3AAD

	Depth	
	From	To
fine brown sand	0	25
medium brown sand, wet	25	30
medium sand and gravel, wet	30	35
silty sand and gravel	35	50
clay, gravel and sand mixed	50	70
silty sand and gravel	70	110
clay and large rocks	110	120
medium gravel and sand, dry	120	130
clayey sand and gravel	130	150
coarse sand and gravel, dry	150	180
mixed sand, gravel, and clay	180	210
mixed sand, gravel, and clay	210	230
clayey sand and pea gravel	230	235
clay and pea gravel	235	245
coarse sand and gravel	245	262

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

Drilling method: ☒ Air rotary, ☐ Cable tool, ☐ Other
Well use: ☒ 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: 262 ft Casing stickup: 3 ft

Casing type: Steel Casing thickness: 0.322 inches

Casing diameter: 6 inches Casing depth: 252 ft

Liner type: Depth: ft Diameter: inches

Note:

Well intake opening type: ☐ Open end, ☐ Open hole, ☒ Other screened

Screen type: Stainless Steel, Screen mesh size: 0.06

Screen start: 252 ft, Screen stop: 262 ft, Perforated ☐ Yes ☒ No

Perforation description: Perf from: ft, Perf

to: ft, Perf from: ft, Perf to: ft

Gravel packed ☐ Yes ☒ No Gravel start: ft, Gravel stop: ft

Note:

Static water (from top of casing): 62 ft on 10 / 2 / 2013 Artesian well ☐

Pumping level & yield: 160 feet after 2 hours at 435 gpm

Method of testing:

Development method: Duration:

Recovery rate: gpm

Grout type: Bentonite Volume 10 Bags

Depth: From ft, To 20 ft

Final pump intake depth: 210 ft Model:

Pump size: 30 hp Brand name:

Was well disinfected upon completion? ☒ Yes ☐ No

Method of disinfection: Sodium Hypochlorite 50+ ppm

Was water quality tested? ☐ Yes ☒ 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



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WATER WELL LOG

Drilling Started: 5 / 13 / 2013 Completed: 5 / 22 / 2013 Pump Install: 10 / 2 / 2-13

City/Borough:	Subdivision:	Block	Lot	Property Owner Name & Address:
Naknek				Silver Bay Seafoods Well #3
Latitude 58° 41' 42.88"N		Longitude 156° 57' 16.53"W		
Meridian		Township	Range	Section
				1/4 of 1/4 of 1/4 of 1/4
BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system * https://info.ngwa.org/servicecenter/shopper/ProductDetail.cfm?ProdCompanyPassed=ngw&ProdCdPassed=ngw-11030 Depth From To				Drilling method: ☒ Air rotary, ☐ Cable tool, ☐ Other Well use: ☒ Public supply, ☐ Domestic, ☐ Reinjection, ☐ Hydrofracking Fluids used: None ☐ Other
Fine Brown Sand	0 -	25	Depth of hole: 262 ft Casing stickup: 3 ft	
Medium Brown Sand, Wet	25 -	30	Casing type: Steel Wall thickness .322 inches	
Medium Sand and Gravel, Wet	30 -	35	Casing diameter: 8 inches Casing depth 252 ft	
Silty Sand and Gravel	35 -	50	Liner type: none Depth: ft Diameter: inches	
Clay, Gravel and Sand Mixed	50 -	70	Well intake opening type: ☐ Open end, ☐ Open hole, ☐ Other	
Silty Sand and Gravel	70 -	110	Screen type: Stainless Steel Assembly From: 252 ft To 262 ft	
Clay and Large Rocks	110 -	120	Slot size 60 From: 252 ft To 262 ft	
Medium Gravel and Sand, Dry	120 -	130	Slot size From: ft To ft	
Clayey Sand and gravel	130 -	150	☐ Perforation description From: ft To ft	
Coarse Sand and Gravel, Dry	150 -	180	From: ft To ft From: ft To ft	
Mixed Sand, Gravel, and Clay	180 -	210	Gravel packed ☐ Yes ☒ No From ft To ft	
Mixed Sand, Gravel, and Clay	210 -	230	Static water (from top of casing): 62 ft on 10 / 2 / 2013	
Clayey Sand and Pea Gravel	230 -	235	Pumping level & yield: 180 feet after 2 hours at 435 gpm	
Clay and Pea Gravel	235 -	245	Method of testing: Submersible Pump 30 HP	
Coarse Sand and Gravel	245 -	262	Development method: Air Surge Duration: 8 Hrs	
			Recovery rate: 3 min gpm	
			Grout type: Standing Bentonite Column Volume 10 bags	
			Depth: From Surface ft To 20 ft	
			Final pump intake depth: 210 ft Model: 7CLC 3Stage Goulds	
			Pump size 30 hp Brand name Groundfos Motor	
			Was well disinfected upon completion? ☒ Yes ☐ No	
			Method of disinfection: Sodium Hypochlorite 50+ PPM	
			Was water quality tested? ☒ Yes ☐ No	
			Water quality parameters tested: PFWA + Arsenic	
			Well driller name: Steve Thomas	
			Company name: Johnson Drilling Co.	
			Mailing address: 3705 Arctic #412	
			City: Anchorage State: AK Zip 99503	
			Phone number: (907) 250 5051	
			Driller's signature: <i>Steve Thomas</i>	
			Date: 6 / 10 / 2013	

AS 41.08.020(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 OR send to

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

Anchorage Municipal Code 15.55.060(l) 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