

# STATE OF ALASKA 69635 DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND & WATER Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started:/ Comple				eted: _4 / 2 / 2015 Pump Install://						
City/Borough			Block	Lot	Property Ow	ame & Address				
City & Borough of Juneau					City Ar	nd	Borough Of Juneau AK,			
Well location: Latitude 58.	•	Longitude -134.396896								
Meridian C Towns	Sectior	n <u>24 , NW 1/4 of NW 1/4 o</u>								
BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system* https://my.ngwa.org/NC				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							
Previously constructed building pad 0 3  Well graded sands and gravels with larger boulders, water encountered at about 6' 3 20			20	Fluids used:						
_	ater encountered at about 6		+	Depth of hole: 95 ft Casing stickup: 4 ft						
Silts and clays		20	57	- Casing type: ASTM AS3B Steel Casing thickness:inches						
Sand, water saturation, he			70	Casing diameter: 16 inches Casing depth: 50 ft						
Silty sand, water saturation, heaving material 70 9		90	Liner type: Depth: ft Diameter:inches  Note:							
				Well intake opening type: ☐ Open end, ☐ Open hole, ☐ Other screened						
				Screen type:, Screen mesh size:						
					Screen start: ft, Screen stop: ft, Perforated ☐Yes ■ No					
				Perforation description: Perf from: ft, Perf						
				to:ft, Perf from:ft, Perf to:ft  Croud period Vec No. Croud start:ft Croud start:ft						
				Gravel packed ☐Yes ■ No Gravel start: ft , Gravel stop: ft Note:						
				Static water (from top of casing): -1 ft on/ Artesian well						
			Pumping level & yield: 24.7 feet after 24 hours at 535 gpm							
			Method of testing:							
			Development method: See log Duration:  Recovery rate: gpm							
						Volume				
							ft, Toft			
Include description or sketch of well location (include road names,			Final pump intake depth: ft Model:							
buildings, etc.):				Pump size:hp Brand name:						
				Was well disinfected upon completion? Yes No						
					Method of disinfection:  Was water quality tested? Yes No					
				Was water of						
				Water quality parameters tested:						
					Well driller name:  Company name: AQUASOURCE LLC					
					Mailing address:					
					City: State: AK Zip:					
			Noth	Phone numb	per: (	_)				
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 <b>45 days of well completion</b> . Well logs may be submitted using the online well log reporting system				Driller's sign	nature:					
				Date:	_//		_			
available at:  https://dnr.alaska.gov/welts/				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 <b>30 days of well completion</b> .						
OR email electronic well logs to				City Permit Number: Date of Issue:/						
dnr.water.reports@alaska.gov				Parcel Identification Number:						
<u>ын. макстторогко                                  </u>										

# CITY AND BOROUGH OF JUNEAU DRILLING LOG NEW WELL 2

## (Not currently used, constructed for future replacement of existing Well 2)

Driller	Aquasource LLC.				
Method of Construction	Air Rotary Drill				
Type of Fluids Used for Drilling	None				
Location of Well	59° 18' 26.05" N, 134° 23' 48.82" W				
Calledon	See attached gradations for Test Well TW-2-15 and Material				
Soils Log	Description of materials encountered below				
Depth of Casing	50' Below Ground Surface				
Height of Casing Above Ground	4' Above Ground Surface				
Depth and Type of Grouting	25' Below Ground Surface, Bentonite Grout				
Depth of Screens	50' to 90'				
Casing Diameter	16" OD				
Casing Material	ASTM A53 Steel Grade B				
Depth of Perforations or Openings in	None				
Casing					
Well Development Method	Air Lifting/Swabbing, Hydropuls While Pumping, Water Jetting				
well bevelopment Method	While Pumping				
Total Depth of Well	95' (Includes 5' Blank Tail Pipe attached to bottom of well				
Total Depth of Well	screen)				
Depth to Static Water Level	Well had artesian flow at times				
Anticipated Use of the Well	Public water supply, intermittent use				
Maximum Well Yield	660 gpm				
Drawdown Test Results	24-Hour Pump Test at 535 gpm, Drawdown=24.7'				
Pump	No Pump Installed				

### Depth from Ground Surface Material Description

0 to 3' Previously Constructed Building Pad			
	Well graded sands and gravels with larger boulders, water		
3' to 20'	encountered at about 6'		
20' to 57'	Silts and Clays		
57' to 70'	Sand, water saturation, heaving sands		
70' to 90'	Silty sand, water saturation, heaving material		

James L. Dorn P.E. Carson Dorn Inc.



R & M ENGINEERING, INC. ENGINEERS GEOLOGISTS SURVEYORS

6205 GLACIER HIGHWAY JUNEAU, ALASKA 99801

#### Sieve Analysis ASTM D422

Client Carson Dorn

Project # <u>151107</u>

Project Last Chance Basin 2014 Source Improvements

Received Date <u>3/31/2015</u>

Location Juneau, AK

Reported Date 4/2/2015

Material/Source TW-2-15 Borehole

Tested by/date WMS 4/1/2015

Sampled by/date Jeff Weiss 3/30-31/2015

Moisture	15.6%		22.5%					
SIEVE SIZE	Percent passing		Percent passing		Percent passing	Required	Percent passing	Requ
	TW-2-15 S-10 57.0'-59.0' SPT	specs	TW-2-15 S-15 78.0'-80.0' SPT	specs		specs		ired
4 " 3 " 2 " 1 1/2 "								
1 "	100 88							
1/2 " 3/8 "	61 55		100					
No 4 No 8 No 10	42 37 34		100 99 98					
No 16 No 30	30 26		97 94					
No 40 No 50	24 21		92 90					
No 100 No 200	18 13.7		77 49.3					



