



STATE OF ALASKA 33103
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: ____ / ____ / ____ Completed: 9 / 17 / 2008 Pump Install: ____ / ____ / ____

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Kenai Peninsula Borough	WILLOW BROOK NORTH		L266	M GEBGARD ,

Well location: Latitude 60.51733100000001 Longitude -151.175053
Meridian S Township 005N Range 011W Section 15 SE 1/4 of SE 1/4 of SE 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
Topsoil	0	2
Sand	2	7
Gravel and sand	7	32
Clay	32	56
Sand and gravel	56	74
Clay	74	97
Silt	97	115
Clay	115	129
Gravel and sand	129	150

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: 150 ft Casing stickup: _____ ft

Casing type: _____ Casing thickness: _____ inches

Casing diameter: _____ inches Casing depth: 145 ft

Liner type: _____ Depth: _____ ft Diameter: _____ inches

Note: CASE TO 145 FT, SCREEN TO 150 FT

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

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

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

Note: _____

Static water (from top of casing): 50 ft on ____ / ____ / ____ Artesian well ☐

Pumping level & yield: _____ feet after _____ hours at 110 gpm

Method of testing: _____

Development method: _____ Duration: _____

Recovery rate: _____ gpm

Grout type: _____ Volume _____

Depth: From _____ ft, To _____ ft

Final pump intake depth: _____ ft Model: _____

Pump size: _____ hp Brand name: _____

Was well disinfected upon completion? ☐ Yes ☒ No

Method of disinfection: _____

Was water quality tested? ☐ Yes ☒ No

Water quality parameters tested: _____

Well driller name: _____

Company name: W.S. & S.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: _____ - _____ - _____

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



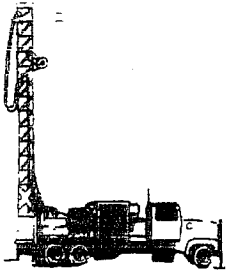
AS 41.08.020(b)(4) and AAC 11 AAC 93.140(a) require that a copy of the well log be submitted to the Department of Natural Resources within 45 days of well completion. Well logs may be submitted using the online well log reporting system available at:

<https://dnr.alaska.gov/welts/>

OR email electronic well logs to

dnr.water.reports@alaska.gov

33103



W S & S CO. WATER SYSTEMS & SERVICE CO.

47360 EMERALD AVE.
KENAI, ALASKA 99611
907-776-8066



Commercial Well #3

Lot	Block	Subdivision	Borough	Section Qtrs.	Section	Township	Range	Meridian
266		Willow Brook North						

Well Owner: Michael Gebgard Willow Brook Home Owners Association P.O. Box 584 Kenai, Alaska 99611			Well Depth: Depth of Hole <u>150</u> ft Depth of Casing <u>145</u> ft		Date Of Completion: <u>9 / 17 / 08</u>	
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Well Data: Depth :			Depths Measured From: <u>X</u> Casing Top _____ Ground Surface		Casing 2' above ground level	
From	To	Material, Type, Color				
0	2	Top Soil				
2	7	Sand				
7	32	Gravel / Sand				
32	56	Clay				
56	74	Sand / Gravel				
74	97	Clay				
97	115	Silt				
115	129	Clay				
129	150	Gravel / Sand				

Depth to Static Water Level: <u>50</u> ft	
Method of Drilling: <u>X</u> Air Rotary _____ Cable Tool _____ Other	
Use of Well: _____ Domestic _____ Monitor <u>X</u> Public _____ Other	
Casing Size: <u>6</u> in. to <u>145</u> ft Type: Welded Steel _____ in. to _____ ft	
Well Intake Opening Type: _____ Open End <u>X</u> Screened _____ Open Hole	
Screen Type: <u>S.S.</u> diam. <u>6</u> in. Slet Size <u>40</u> Length <u>5</u> ft Screen set at 145' to 150'	
Grout Type: Casing Seal Volume Used <u>100 lbs</u> Depth to Top <u>30'</u>	
Development Method: <u>Air, Pump, Bailing</u>	
Draw Down Test & Yield: _____ ft of Draw Down <u>110</u> gpm	

Well # 1 has static water level of 49'.
 When well # 3 was test pumped at 110 gpm, well # 1 had a draw down of 3'.

SB 5-11-15 DDDD
 LAS 22274

Tested with 5 hp pump. Depth of 100' from top of casing

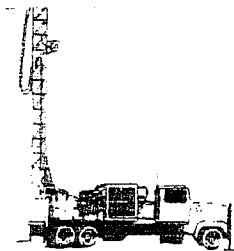
Thank you for choosing Water Systems & Service for your water well needs.

Toni Ryan
 Authorized Representative

9/17/08
 Date

well
 #3

33103



W S & S CO. WATER SYSTEMS & SERVICE CO.

47360 EMERALD AVE.
KENAI, ALASKA 99611
907-776-8066



Project: Lot 266 Willow Brook North - Willow Brook Home Owners Association
Project No.: Commercial Well # 3
Completed By: Water Systems & Service Co.
Date: 9/17/08

WELL CASING:

Diameter: 6 in.
Depth: 145 ft.
Hgt. Above Ground: 2 ft.

WATER LEVEL:

Static: 50 ft.
Drawdown: 17 ft.
Recovery: 15 min.

PUMP:

Type: Sub.
Size: 5 hp
Depth: 100 ft

SCREEN:

Depth: 145 to 150 ft.
Slot Size: 40
Length: 5 ft.

Final installed pump depth 130'

WATER SYSTEM FLOW TEST

<u>Time</u>	<u>Elapsed Time Min.</u>	<u>Depth to Water, ft</u>	<u>Drawdown/ Recovery</u>	<u>Flow</u>	<u>Total Gallons</u>
1:30 pm	0	50 (swl)	0	0 gpm	0
2:00	30	67	17	110	3300
2:30	60	67	17	110	6600
3:00	90	67	17	110	9900
3:30	120	67	17	110	13200
4:00	150	67	17	110	16500
4:30	180	67	17	110	19800
5:00	210	67	17	110	23100
5:30	240	67	17	110	26400

Recovery

5:30 pm	0	67	0	0
5:40	10	54	13	
5:50	20	57	17	
6:00	30	57	17	
6:15	45	57	17	
6:30	60	57	17	

Toni Dyer

Authorized Representative

9/17/08

Date