

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
Soils Log	See attached gradations for Test Well TW-2-15 and Material 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 Casing	None
Well Development Method	Air Lifting/Swabbing, Hydropuls While Pumping, Water Jetting While Pumping
Total Depth of Well	95' (Includes 5' Blank Tail Pipe attached to bottom 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
3' to 20'	Well graded sands and gravels with larger boulders, water 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 # 151107

Project Last Chance Basin 2014 Source Improvements

Received Date 3/31/2015

Location Juneau, AK

Reported Date 4/2/2015

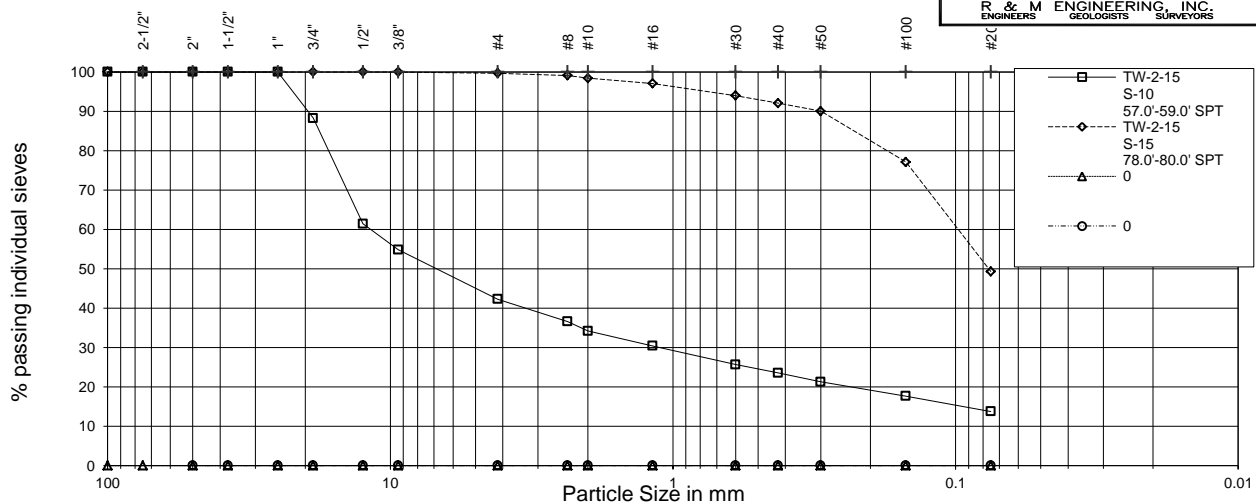
Material/Source TW-2-15 Borehole

Tested by/date WMS 4/1/2015

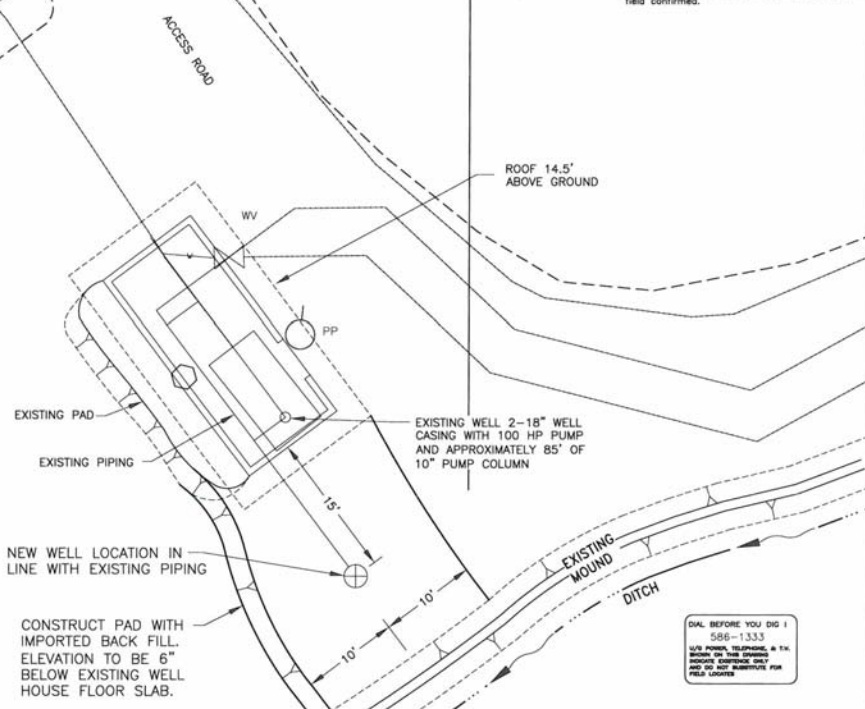
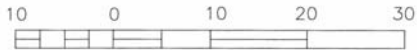
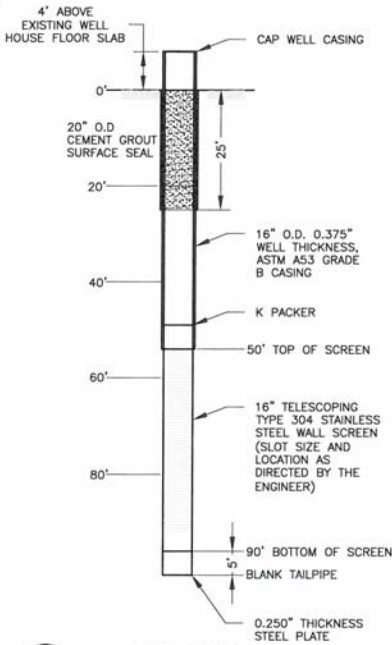
Sampled by/date Jeff Weiss 3/30-31/2015

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

Grain Size Distribution Curve



NEW WELL 2
 SCREEN INTERVAL: 50 TO 90 FEET BGS (BELOW GROUND SURFACE)
 50 TO 60 FEET BGS SLOT SIZE: 0.100" (100 SLOT) 43-53
 60 TO 90 FEET BGS SLOT SIZE: 0.060" (60 SLOT) 53-84
 SPECIFIC CAPACITY: 22 GPM/FT
 RECOMMENDED MAXIMUM WELL PRODUCTION RATE: 495 GPM



ASBUILT RECORD DRAWINGS

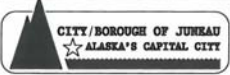
CONTRACTOR:
 ANETC CONSTRUCTION
 DESIGN ENGINEER:
 CARSON DORN INC.
 To the best of my knowledge these drawings are a true and accurate representation of the project as constructed. Some of the record information shown on these drawings was provided by others. Use of the information contained in these Record Drawings should be field confirmed.



CALL BEFORE YOU DIG!
 586-1333
 U.S. PHONE, TELEPHONE, & FAX
 NUMBER ON THIS DRAWING
 INDICATE EXISTENCE ONLY
 AND DO NOT SUBSTITUTE FOR
 FIELD SURVEY

REV	DATE	BY	DESCRIPTION

SCALE: GRAPHIC
 DESIGNED: JLD
 DRAWN: GDM
 CHECKED: JLD
 DATE: SEPT 2014



CITY AND BOROUGH OF JUNEAU
 LAST CHANCE BASIN 2014
 SOURCE IMPROVEMENTS
 CONTRACT No. E15-064

Carson Dorn Inc.
 712 WEST 12TH STREET
 JUNEAU, ALASKA 99801
 (907) 586-4447

LAST CHANCE BASIN WELL NO. 2

DRAWING
W-2
 SHEET No.
 12 of 23