



STATE OF ALASKA 36388
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: / / Completed: 5 / 7 / 1996 Pump Install: / /

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
				New Stuyahok AK,

Well location: Latitude 59.452619999999996 Longitude -157.31526
Meridian S Township 008S Range 047W Section 29 , NE 1/4 of SE 1/4 of NE 1/4 of SW 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
frozen organics	0	2
brown clay and gravel	2	70
bluish gray clay and gravel	70	90
bluish clay and gravel	90	127
heaving fine sand and silt	127	132
sand and clay	132	147
sand and clay (hard) (stands up)	147	162
coarse sand	162	170
grey silt	170	176

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: 176 ft Casing stickup: _____ ft

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, ☒ Other screened

Screen type: _____, Screen mesh size: 30

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): 28 ft on 9 / 10 / 1975 Artesian well ☐

Pumping level & yield: 77.75 feet after 15 hours at 25 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: Estabrook

Company name: US BIA

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

No. 3 Well New Stuyahok

start 14 March 96 finished 7 May 96

The formation has felt hard all the way to 127-132. The hole will stand and I have been able to bail it dry.

132 formation heaved 20 ft up the hole. It is a real dirty formation, real fine sand + silt.

132-147 softer formation. 147 turned hard. again drilling 10 ft ahead pipe moves good with stand for bailing and stands over night ok. Got into a coarse sand at 162 ft. Looks pretty good for water. Set a 30 slot screen and bailed and surged the well screen. Got the screen developed out and put the pump on the bottom 2 HP pump. Started pumping slowly and developed the well and it pumps 35 gal min at 40' TOC draw down.

- 0-2 frozen organics
- 2-70 brown clay & gravel
- 70-90 bluish gray clay & gravel
- 90-127 bluish clay & gravel
- 127-132 heavy fine sand & silt
- 132-147 sand & clay
- 147-162 sand & clay (hard) (stands up)
- 162-170 coarse sand
- 170-180 gray silt

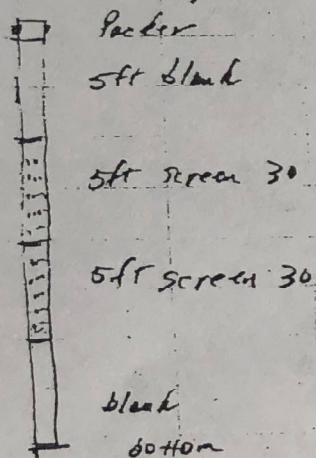
180 ft casing total

9 May 96

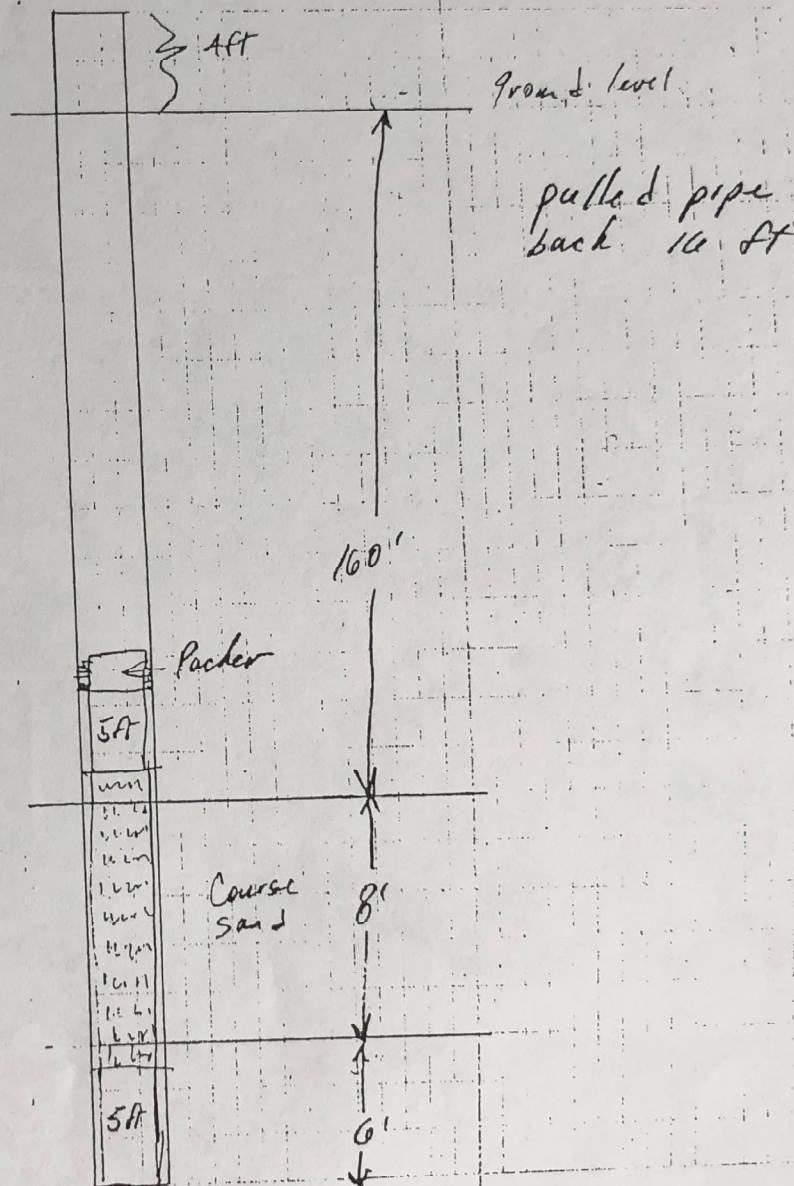
Took water samples and sand samples to lab to get checked out

6 June

Set the well screen that we made up



Well



Not to any scale

Started pumping at 12:00 A
12 June 96 started at
slow rate 6 gpm and slowly
increased flow as the well
cleaned up.

13 June 96 12:00 A opened
gate valve all the way the
water level 39' TDC
checked hour later static
40' TDC 35 gpm checked
every hour the same

14 June 96
35 gpm 40' static TDC

15 June
35 gpm 40' static TDC
Put on well seal 5:30 P

16 June
pumping 35 gal min

From: Mark Stafford
To: Brad Rea
Subject: New Stuyahok Well

===NOTE=====6/14/96==8:18am==

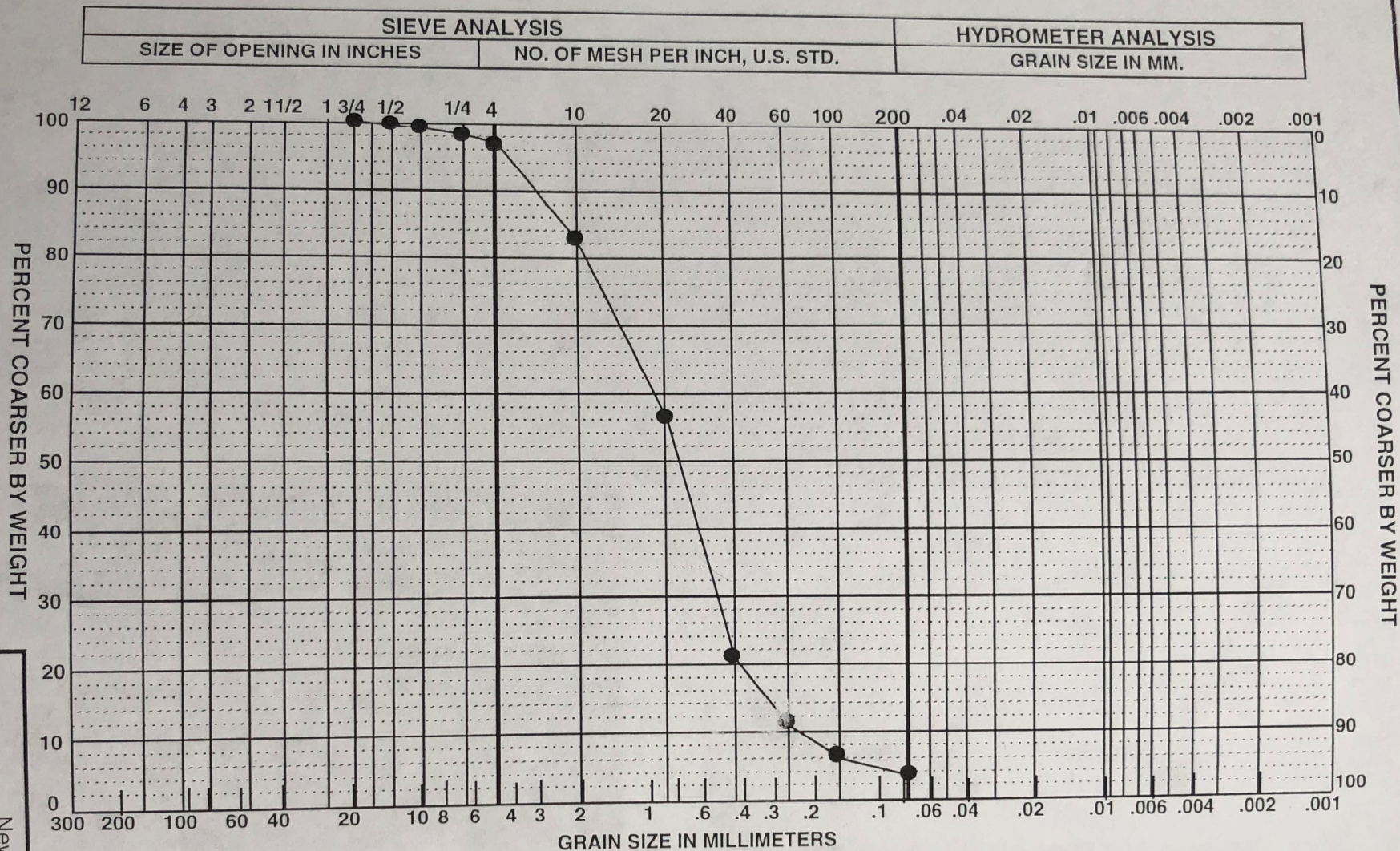
CC: Norm Fairbanks, Richard Thayer

.....
Rich called today with good news. The well has been producing 34-36gpm for the last 36 hours. Drawdown is 41 feet in a well that is over 170 feet deep. No interference that we know of in the existing well but we have not looked into that situation.

We are not in a position to place a pitless or run a waterline at this time due to other commitments. Our agreemeent was to punch a well on the expectation of receiving HUD money and postpone other work pending receipt of funds.

A good drawdown test will be conducted later.

Soil analysis is for sizing well screen at well #3, New Stuyahok, Aquifer sample



COBBLES	COARSE	FINE	COARSE	MEDIUM	FINE	FINES				
	GRAVEL		SAND							
SAMPLE NO.	DEPTH, FT.	U.S.C.	CLASSIFICATION				W.C. %	LL	PL	PI
1	162-170 feet	SP	● Gray, coarse to medium SAND				9.8			

GRAIN SIZE CLASSIFICATION

May 1996

A-1004-91

New Stuyahok
Public Health Service, Alaska

SHANNON & WILSON, INC.
Geotechnical & Environmental Consultants

Fig. 1

AQUIFER TEST FIELD DATA SHEET

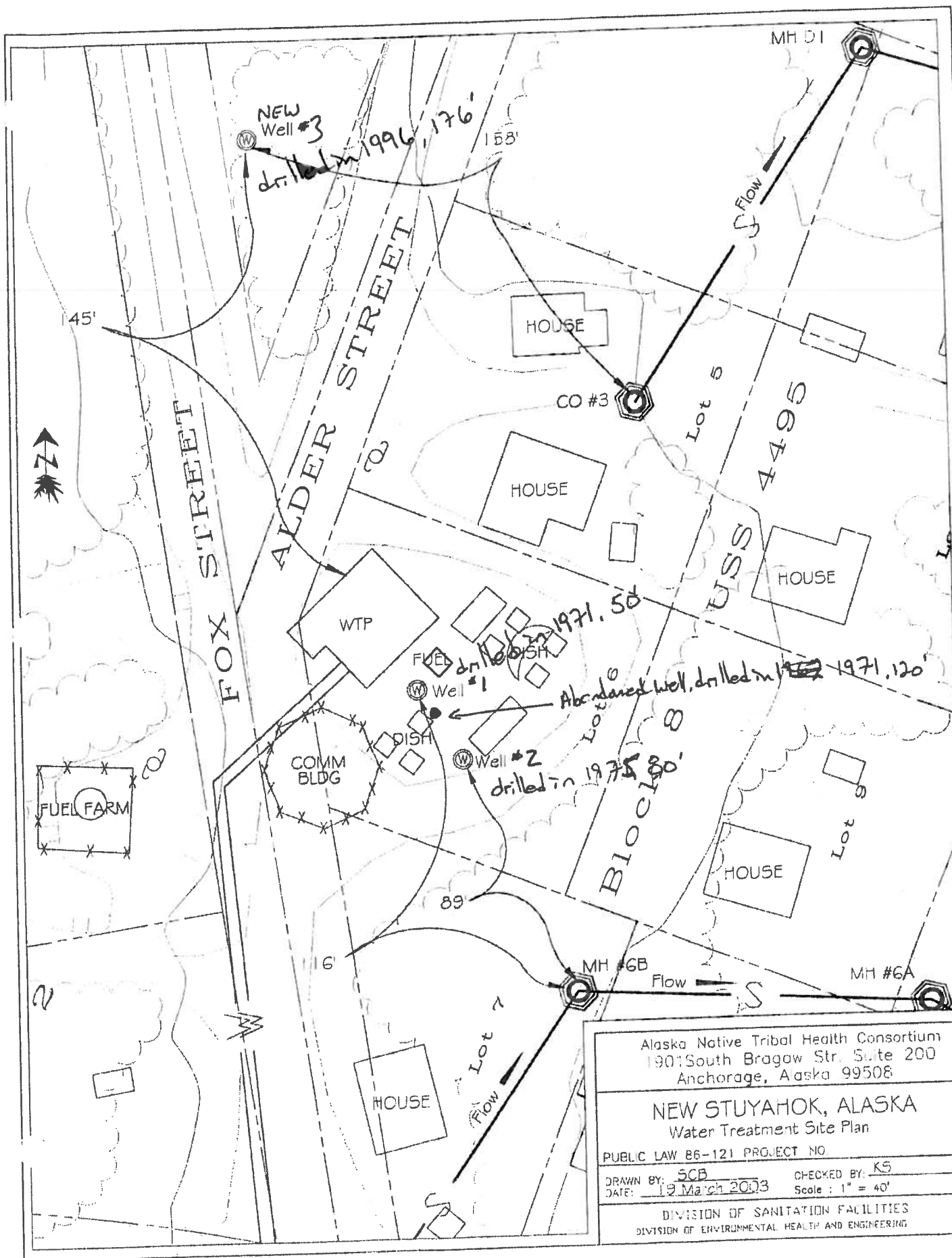
Page 1 of 1Project No. AN-76-992 Project Name NEW STUYAHOK, ALASKA Well # 3Location of Well 25' Downhill from Pumphouse

Depth of Well _____ ft. Length of Casing _____ ft. Pumped Well / Observation Well

Observation Well, Dist. to Pumped Well _____ ft. Top of Casing to Static Level _____

Drilling Completed _____ Driller Estabrook Date Tested 9-10-75

Clock Time	Elapsed Time Since Pumping Started	Depth to Water From TOC	Drawdown @ 25 gpm	Clock Time	Elapsed Time Since Pumping Started	Depth to Water From TOC	Drawdown @ 25 gp
	.5 Minutes		28"		27	61.75"	
	1.0		37"		28	62.25"	
	1.5		39"		29	62.50"	
	2.0		41"		30	62 5/8"	
	2.5		42"		31	63.00"	
	3.0		43"		32	63.00"	
	3.5		44"		33	63.25"	
	4.0		45"		34	63.50"	
	4.5		46"		35	63.50"	
	5.0		47"		36	63.75"	
	6		48"		37	63.00"	
	7		49"		38	63.50"	
	8		50"		39	63.50"	
	9		51.5"		40	63 5/8"	
	10		53"		50	65 5/8"	
	11		54"		60	67 5/8"	
	12		54"		70	68 7/8"	
	13		55"		80	69 7/8"	
	14		55.5"		90	70 7/8"	
	15		56"		100	71 5/8"	
	16		56.5"		110	72 3/8"	
	17		57.25"		120	72 5/8"	
	18		58"		150	73 5/8"	
	19		58.5"		180	74.00"	
	20		59"		210	74.50"	
	21		59.75"		240	75.00"	
	22		60"		270	75 3/4"	
	23		60.25"		360	76 1/4"	
	24		61"		900	77 3/4"	
	25		61.25"				



Alaska Native Tribal Health Consortium
1901 South Bragaw Str. Suite 200
Anchorage, Alaska 99508

NEW STUYAHOK, ALASKA

Water Treatment Site Plan

PUBLIC LAW 86-121 PROJECT NO.

DRAWN BY: SCB CHECKED BY: K5
DATE: 19 March 2003 Scale: 1" = 40'

DIVISION OF SANITATION FACILITIES
DIVISION OF ENVIRONMENTAL HEALTH AND ENGINEERING