

August 2, 2016

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Subject: Homer Maintenance Station Retention Pond Installation
Field Screening Activities Report
ADOT&PF Project No. Z583650000/CSHWY00151; SPC2562-015

Mr. Jones:

Restoration Science & Engineering, LLC (RSE) is providing this Report regarding soil field screening activities conducted by RSE during excavation for installation of the retention pond at the Alaska Department of Transportation and Public Facilities (ADOT&PF) Homer Maintenance Station in Homer, Alaska. The Homer Maintenance Station Retention Pond project occurred at 3450 Sterling Highway and involved installation of a lift station, approximately 265 linear feet of shallow buried arctic drain pipe, and construction of a drainage retention pond.

OBJECTIVES

The goal of this characterization effort was to field screen for potential contamination soil excavated from the lift station, drainage line, and retention pond areas and to manage the soil in accordance with the ADOT&PF Project contract and Alaska Department of Environmental Conservation (ADEC) requirements. Prior hydrocarbon releases at the facility are identified on the ADEC Contaminated Sites Database indicating potential to encounter contaminated soil during excavation activities. RSE Qualified Environmental Professional (QEP) Colette Brandt was present onsite to observe and field-screen soil during the excavation activities on July 11 and 12, 2016. Soil was characterized as it was excavated from the lift station, arctic drain pipe trench, and retention pond area. Soils determined not suitable for reuse as backfill due to suspected contamination was segregated and placed on a liner on-site for future characterization and approval for treatment and disposal. Additionally, field screening was completed of the sidewalls of the arctic drain pipe trench at the locations yielding elevated excavated soil screening values for the purpose of identifying suspected contaminated soil left in place along the utility alignment.

SOIL FIELD SCREENING AND SEGREGATION ACTIVITIES

Soil field screening and segregation was conducted in general accordance with the ADEC Field Sampling Guidance (March 2016). Soil was field screened as it was removed from the excavation using a photoionization detector (PID). Field screening results were used in association with field observations to guide segregation of suspected hydrocarbon impacted soil. RSE notified East Road Services, Inc. (ERS) once suspected contamination was encountered. ERS subsequently notified ADOT&PF, per the contract requirements. Suspected contaminated soil was stockpiled onsite on 20-mil petroleum-resistant liner for further characterization or management.

Field Screening Methodology

All field screening samples were collected by a Qualified Environmental Professional (QEP) Colette Brandt with senior oversight provided by David Nyman, PE also a QEP and with more than 25 years of experience managing contaminated sites. Soil screening was conducted as soil was excavated from the lift station, arctic drain pipe trench, and retention pond area. Screening samples were collected directly from the trackhoe bucket or from recently stockpiled soil. RSE field personnel placed field screening samples into a quart-sized Ziploc™ bag, warmed the bag to approximately 60° F, and measured the head space within the bag using a PID. The PID was calibrated to 100 parts per millions by volume (ppmv) using isobutylene. Field screening samples were collected using clean stainless steel spoons. RSE field personnel noted the sample ID, sample location (based upon trench stationing location and oriented to site features), and the PID reading for each field screening location.

FIELD SCREENING AND SAMPLING RESULTS

All PID field screening results are presented in the attached field notes in Attachment B and select site photographs provided in Attachment C.

Lift Station

Soil was field screened as it was removed from the lift station excavation area. Soil from lift station yielded PID values between 0.7 ppmv and 76.6 ppmv. Soil exhibiting PID readings higher than 10 ppmv was encountered and based on that finding soil less than 10 ppmv and greater than 10 ppmv were segregated into two stockpiles respectively (stockpiles SPA and SPB). The two stockpiles were subjected to additional field screening. Stockpile SPA consisted of 10 to 15 cubic yards of material. Sixteen field screening samples were collected with PID readings ranging between 1.3 ppmv and 11.1 ppmv. The corner of SPA abutting SPB yielding the PID reading of 11.1 ppmv was removed and included into SPB. The area in SPA was then field screened again with PID readings of 1.6 ppmv and 2.1 ppmv. Stockpile SPB consisted of approximately five to ten cubic yards of material. Twelve field screening samples were collected, with PID readings ranging between 4.1 ppmv and 185.7 ppmv. An additional area at the lift station was excavated for installation of conduit and electrical and stockpiled adjacent to the excavation. This stockpile (SPC) was approximately 1.5 to 2 cubic yards, with PID readings ranging between 2.0 ppmv and 2.9 ppmv.

Arctic Drain Pipe Trench

The arctic drain pipe trench excavation extended north from the lift station excavation to the retention pond location. Soil was field screened as it was removed from the trench excavation area. Samples were collected approximately every five feet. Approximately the first 110 feet of the arctic drain pipe trench, field screening samples yielded PID results between 6.6 ppmv and 2,713 ppmv (trench station field note IDs T1 and T23). Trench location T23 was located about 20 feet north of the edge of pavement. Field screening results were observed to decrease to PID values consistently less than 8 ppmv around trench station ID T23 and continued to be low as excavation progressed to the end of the arctic drain pipe trench excavation (field note station T53).

Elevated field screening results were encountered between trench station IDs T1 and T23 and were also associated with hydrocarbon odors in the excavation. Approximately 40 to 45 cubic yards of excavated material from the trench was removed from this section, segregated and placed on a 20-mil petroleum

resistant liner. All soil between station IDs T1 and T23 were placed in the suspected contaminated soil stockpile.

After excavation activities were completed, RSE personnel field screened the sidewalls of the arctic drain pipe trench. Sidewall field screening samples were stationed every 5 feet and collected at approximately 2 to 2.5 feet bgs, below the pavement. Field screening samples yielded PID results ranging between 5.9 ppmv and 720.1 ppmv.

Retention Pond

Soil excavated from the retention pond area was stockpiled around the excavation to be used as the berm. A total of 79 soil field screening samples were collected from the stockpiled soil at varying depths between 10 and 20 inches. Field screening PID results were consistently less than 6 ppmv, ranging between 1.4 ppmv and 5.9 ppmv.

TEMPORARY STORAGE, TREATMENT OR DISPOSAL OF IMPACTED SOIL

Current disposition of the soil is as follows:

- Soil generated from the lift station in Stockpile A (approximately 10-15 cubic yards) was re-used as backfill at the lift station;
- Soil generated from the lift station in Stockpile B (approximately 5-10 cubic yards) was segregated and stockpiled onsite;
- Soil generated from the lift station in Stockpile C (approximately 1.5-2 cubic yards) was re-used as backfill at the lift station;
- Suspected contaminated soil generated from the arctic drain pipe trench T1 to T23 – Segregated and stockpiled onsite; and
- Soil generated from Stations T24 to T53 was used for backfill in the arctic drain pipe trench and as part of the retention pond berm.
- Soil generated from the retention pond excavation was used as the berm for the retention pond.

Approximately 50 to 60 cubic yards of suspected contaminated soil removed from the lift station and arctic drain pipe trench stations T1 through T23 were stockpiled on a 20-mil petroleum-resistant liner. This material is stockpiled at the ADOT Homer Maintenance Facility pending characterization for disposal, treatment or re-use. Stockpile characterization samples from the suspected contaminated stockpile were not submitted to the laboratory.

QUALITY ASSURANCE AND QUALITY CONTROL

The project scope and criteria did not require collection of analytical samples or quality control analytical samples. The PID was calibrated to 100 parts per millions by volume (ppmv) using isobutylene. Background PID readings and ambient air PID readings were documented in the field notebook. The PID remained responsive and functioned properly throughout the project.

INVESTIGATIVE DERIVED WASTE

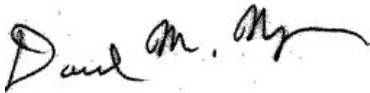
Consumables such as plastic bags, liner material, gloves and used jars were disposed of in appropriate trash receptacles. Non-consumables such as spoons and other field equipment were decontaminated using Alconox and hot water at RSE's equipment room.

CONCLUSIONS

Soil from the arctic drain pipe excavation was field screened and suspected contaminated soil was segregated and stockpiled on site. The stockpile consists of soil that was generated between from the lift station excavation and the arctic drain pipe excavation stations T1 to T23. Field screening indicates that this soil may exceed ADEC Method 2 Cleanup criteria.

A single suspected contaminated soil stockpile remains on site at the ADOT&PF Homer Maintenance Facility and is positioned on a 20-mil petroleum resistant liner and covered with visqueen. The stockpile is located in the northern portion of the facility removed from trafficking areas and separated from other material stockpiles.

Please contact David Nyman at (907) 278-1023 ext. 103, if you have any questions or comments to this report. This report was prepared by an ADEC Qualified Environmental Professional in accordance with 18 AAC 75/78. This summary was not required by the project contract and is provided as a courtesy to ERS.



David Nyman, PE
Restoration Science & Engineering, LLC



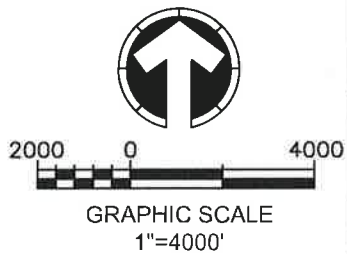
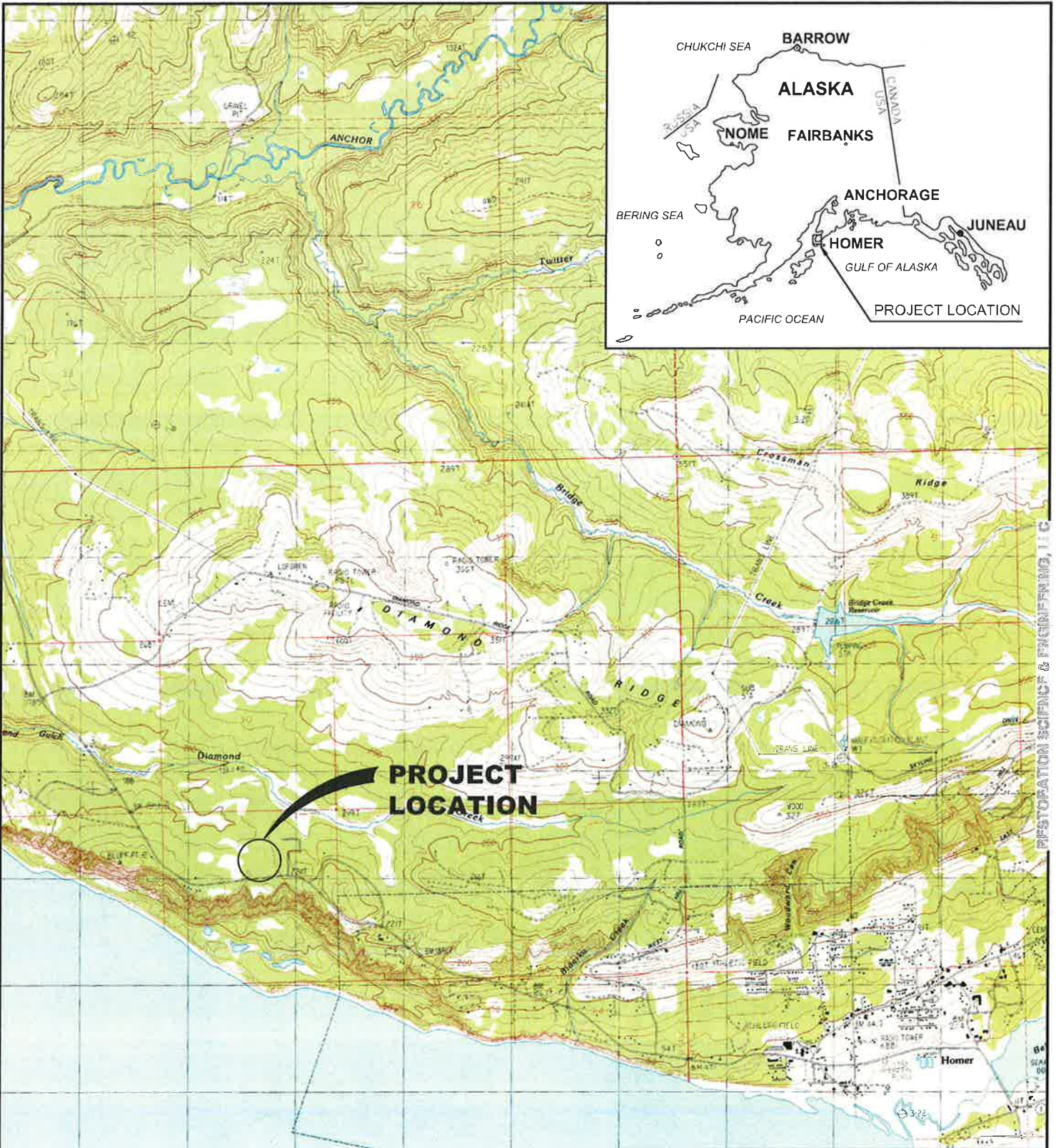
Colette Brandt, Environmental Scientist
Restoration Science & Engineering, LLC


ATTACHMENTS

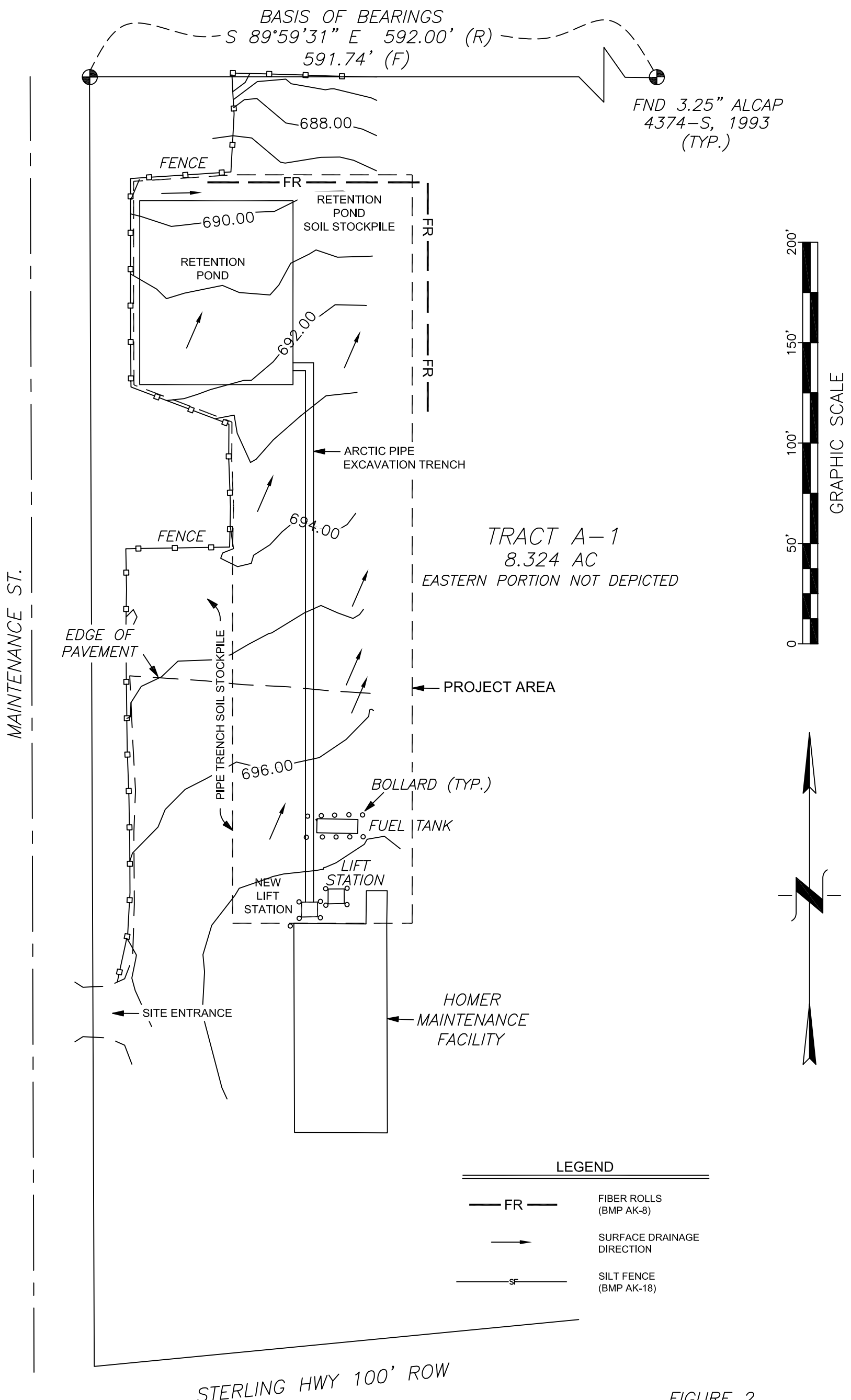
- Attachment A: Site Map
- Attachment B: Field Notes
- Attachment C: Select Site Photographs

ATTACHMENT A

SITE MAP



HOMER MAINTENANCE SYSTEM RETENTION POND PROJECT	
VICINITY MAP	
HOMER, ALASKA	
JOB NO: 00-000	DRAWN: MSB
DATE:	CHECKED:
 West Alutian Sound LLC Anchorage, Alaska 99501 PH (907) 278-1023 FAX (907) 277-9718	
FIGURE 1	



MAP SOURCE: SEABRIGHT SURVEY & DESIGN
 HOMER, ALASKA

FIGURE 2
 HOMER MAINTENANCE SYSTEM
 RETENTION POND PROJECT
 EROSION & SEDIMENT CONTROL PLAN
 SCALE 1" = 50' CONTOURS 1' & 5'
 RESTORATION SCIENCE & ENGINEERING

ATTACHMENT B

RSE Field Notes

INCH

DEFYING MOTHER NATURE™

SINCE 1916



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post-consumer recycled material

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6 3 2 2 8 1 3 1 3 1 1 3

Restoration Science & Eng. LLC



Rite in the Rain

ALL-WEATHER

LEVEL

Nº 313

16-1546

HOMER MAINTENANCE STATION
RETENTION POND

JULY 2016



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Address 911 W. 8TH AVE., STE 100
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Phone (907) 278 1023

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Projects 16-1546
HOMER MAINTENANCE STATION
RETENTION POND

JULY 2016



RiteintheRain.com

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14-24	FIELD SCREEN EXCAVATION OF - REMAINING WATERLINE TRENCH - RETENTION POND EXCAVATION - SIDEWALLS (LEFT IN PLACE) WATERLINE TRENCH.	7/12/16

7/11/16 HomeR MAINT. STA. RETENTION POND
ONSITE 0830

ABEL - WASTE: employee w/ EAST RD. SVCS

WEATHER: ~55°F HIGH TODAY 68°F
Cloudy - rain last night

BILL JONES ONSITE 0835 - FOREMAN FOR PJ.
(Phillip)

0845 BUCK & KEATON ARRIVE ONSITE

SURVEY/MARKING MANHOLE, LIFT STATION
& WATERLINE

PLAN - TO CUT & START MANHOLE &
LIFT STATION, THEN KEAT. WILL MARK
OUT RETENTION POND & START EXCAVATION

◦ WILL SCREEN EXCAVATION/EXCAVATED MATERIAL
- 1ST GRAB AMBIENT & BACKGROUND
BUT WILL MOST LIKELY STICK W/ PID
READINGS ABOVE 10 ppmv AS POTENTIALLY
CONTAMINATED SOIL

• AMBIENT & BACKGROUND.

AMBIENT (BEFORE EG. DURING & CURVE) 0.0 ppm

AMBIENT (WALK & EX STARTED) 0.1 ppm

BG - SURFACE GRAVEL 1.0 ppm

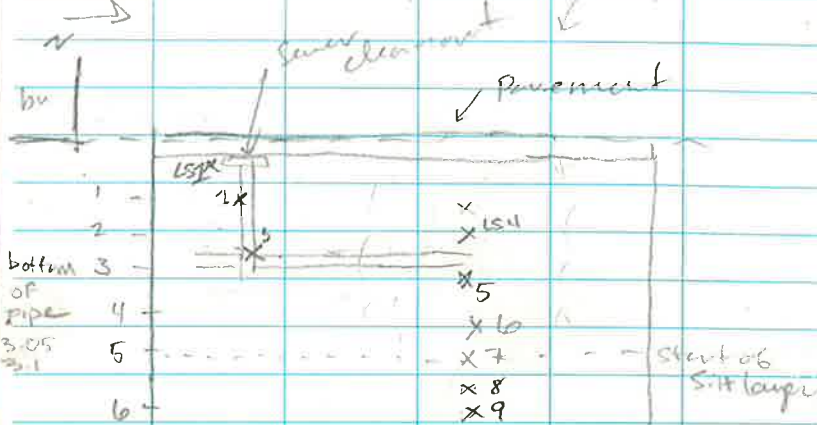
Return to the Rain.

②

7/11/16 HOMER MAINT. STA. RETENTION POND

0915 - CUTTING ASPHALT @ LIFT STATION & COMPLE
UTILIM LOCATES

0930 - STARTED LY. OF LIFT STATION



- Diff layer - started stockpile sep.
 *Silt layer 7 to 6 -> keep separate
 Sep. Stockpiles (SP) A & B

③

7/11/16 HOMER M. STA. RETENTION POND



excavated material put on liner

MAINT FACILITY

Rite in the Rain

④

STARTING Below pavement

ID	BGS	PID	NOTES
LS1	1"	0.7	Well graded sand & gravel fill
LS2	12"	2.0	"
LS3	3'	1.8	med sand - well sorted
LS4	2'	1.2	"
LS5	3'	1.5	"
LS6	4-4.5'	5.2	silty sand
LS7	5'	76.6	silt/clay
LS8	~5.5'	7.2	silt "
LS9	6'	2.0	silt. "

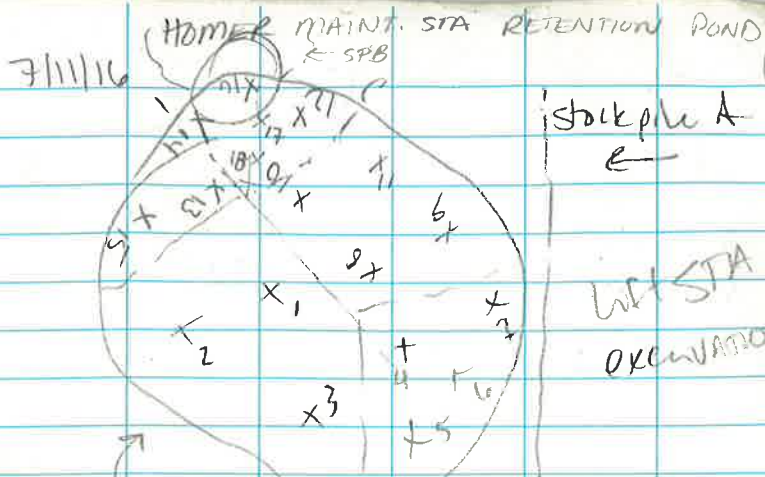
LS=LIFT STATION

Screening Stockpile B with high PID (LS7-9)

ID	PID	NOTES	ID	PID	NOTES
SP1	4.1	sand	SP7	10.5	silt
SP2	4.7	silty sand	SP8	4.5	silty sand
SP3	48.7	silty sand	SP9	6.2	silt
SP4	5.5	silty sand	SP10	4.7	silt
SP5	26.9	silty sand	SP11	5.1	silty sand
SP6	185.7	silty sand	SP12	4.7	silty sand



⑤



STOCKPILE A		AMBIENT			
ID	PID	ID	PID		
SPA1	2.3	sand w/ gravel	SP9	1.7	sand w/ gravel
SPA2	1.4	sand w/ gravel	SP10	2.2	sand w/ gravel
SP3	1.8	"	SP11	2.3	"
SP4	1.9	"	SP12	2.0	sand
SP5	1.3	"	SP13	2.2	" w/ gravel
SP6	2.0	"	SP14	2.0	"
SP7	1.9	"	SP15	2.8	"
SP8	1.7	well sorted sand w/ gravel	SP16	11.1	sand & gravel

Removed corner of SPA (SP16) to SPB

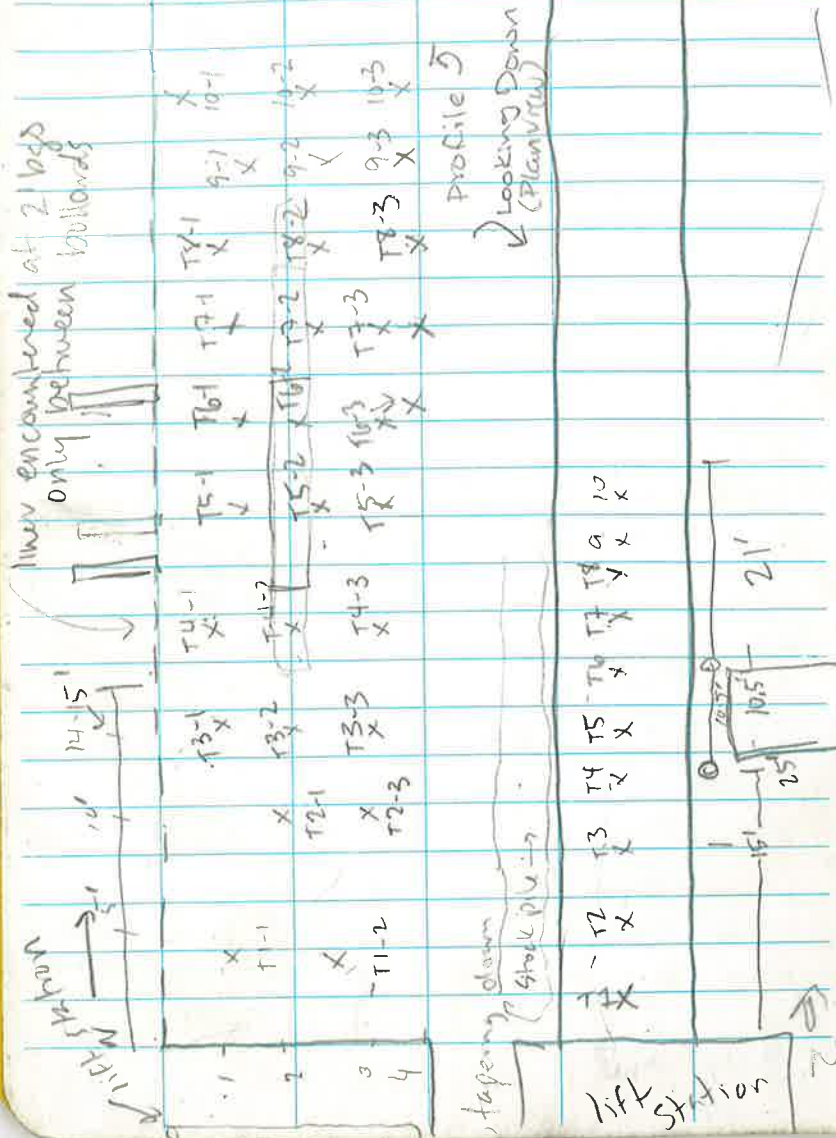
ID	PID	NOTES
SP17	1.6	sand w/ gravel
SP18	2.1	"

re-screen area after corner removed

STOCKPILE B, PLUS CORNER OF SPA removed & placed on L101

note in the Rain.

7/11/16 HOMER MAINT. STA. RETENTION POND
 1800 Started cutting pavement for water line



7/11/16 HOMER MAINT. STA. RETENTION POND

ID	PID	BGS	NOTES
T1-1	12.0	~1.5'	grey sand w/ gravel
T1-2	1.6	-3'	brown
T2-1	342.5	~1.5-2'	
T2-2	1737	3'	
T3-1	479.7	1'	
T3-2	1753	2-2.5'	
T3-3	2018	3'	
T4-1	1839	1.5'	
T4-2	1386	2'-2.5'	Sand w/ gravel
T4-3	1351 ↑	3.5'	"
T5-1	1449 ↑	2'	
T5-2	1422	2.5-3'	
T5-3	1298 ↑	3.5'	
T6-1	1236	1.5'	
T6-2	1228	2.5'	
T6-3	988.6	3-3.5'	
T7-1	1560 1184	1.5'	
T7-2	986.1	2.5'	
T7-3	21560	4'	
T8-1	386.7	1'	
T8-2	1270	2.5'	Let Air out 12hrs
T8-3	1037 ↑	4'	T9-2 = 290.2
T9-1	1149	1.5'	
T9-2	1837 ↑	2.5'	
T9-3	1304	3.5'	

Rite in the Rain

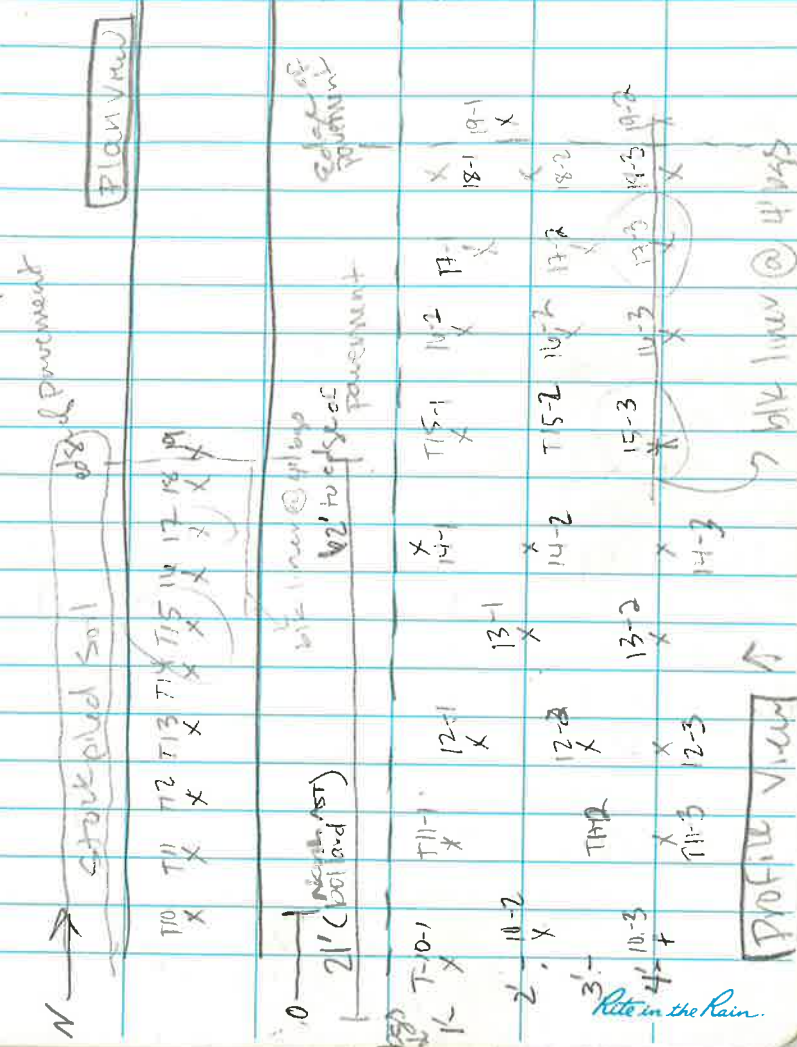
7/11/16 HOMER M. STA. RETENTION POND

ID	PID	BGS	NOTES
T10-1	493.0	1.5'	silty sand w/ gravel
T10-2	1101	2.5'	well sorted
T10-3	1327	4'	
T11-1	507.1	1.5'	
T11-2	236.5	3'	
T11-3	1224	4'	
T12-1	65.9	2'-2.5'	
T12-2	1564 ↑	4'	
T13-1	971.7	2'	
T13-2	760.2	4'	
T14-1	115.6	1'	
T14-2	222.4	2.5'	
T14-3	1323	4'	
T15-1	1804 ↑	~2'	
T15-2	678.8	~3'	
T15-3	2037 ↑	~4'	BEN SILT
T16-1	716.4	1.5'	silty sand w/ gravel
T16-2	716.4 1657.2	2'	BEN SILT w/ sand & gravel
T16-3	1255	4'	BEN silt w/ sand
T17-1	97.5	1.5-2'	silty sand w/ gravel
T17-2	1615 ↑	2.5-3'	
T17-3	2713	4'	silt w/ sand
T18-1	284.4	2'	silty sand w/ gravel
T18-2	379.8	2.5-3'	sandy silty sand w/ gravel
T18-3	1311	4'	silt w/ sand

7/11/16

ID	PID	BGS	NOTES
T19-1	58.3	2.5'	green silty sand w/ gravel
T19-2	356.8	~4'	BEN silt & silty sand

T17-3-5 Air out for 1/2 hr = 1247



⑩ 7/11/16 HOMER MAINT. STA.
RETENTION POND

1535

STOPPED @ Edge of Pavement

-BUCK CONTACTED DOT EARLIER - TOLD THEM
CURRENTLY STOCKPILING ALONG TRENCH - GOING
TO BUILD LINER W/ BERM & MOVE SUB TO
LINER.

→ STOPPED AT EDGE - SO NOT STOCKPILING ON GRAVEL

GORDY - DOT MAINT STA. FOREMAN ONSITE
MET W/ BUCK TO SHOW WHERE TO PUT LINER

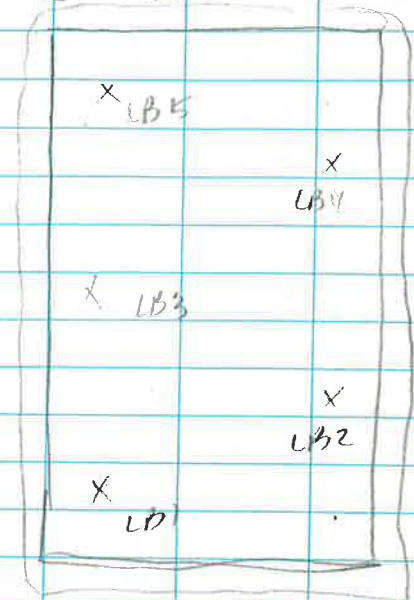
field screened base of liner area
appears to be silty sand & gravel mixed
with asphalt - LB = liner baseline

ID	PID
LB1	9.9
LB2	9.8
LB3	10.5
LB4	10.7
LB5	10.3

HOMER MAINT. STA. RETENTION POND ⑪

7/11/16

SOIL BERM



53' x 20'

LINER
SIZE

11:30 - Continuing trench - direct haul into
end-dump truck to liner

53' x 20' → 1,060 sq ft

$97.5 \times 2.5' = 243.75 \rightarrow 245 \text{ sq ft}$
 $49 \times 4' \text{ bgs} = 975 \rightarrow 980 \text{ cu. ft}$
 $= \sim 36 \text{ cu. yds} \rightarrow 42$

F/TRENCH + $\sim 5-10 \text{ cu yds F/LIFT STA.}$

→ T1-T23 $\sim 42 \text{ to } 45 \text{ cu.}$ *Rite in the Rain*

⑫ 7/11/16 Ambient 2.2 ppm

ID	BGS	PID	
+20-1	4'	30.4	Silt
+21-1	1-2'	8.0	sand w/ gravel
21-2	3-4'	8.1	"
22-1	1-2'	6.0	Silty sand w/ silt
22-2	3'	10.8	Silty sand w/ gravel
23-1	1-2'	7.1	"
23-2	3-4'	12.8	Silt
23-3	4'	4.4	Silt w/ sand
24-1	1-2'	2.9	Silty sand w/ gravel
24-2	3'	11.5	SS
24-3	3-4'	4.8	SS
25-1	1-2'	5.5	Sand & gravel
25-2	3-4'	4.0	Silt
26-1	1-2.5'	5.1	Sand w/ gravel
26-2	2.5-4'	3.5	Silty sand
27-1	1-2.5'	4.8	SSG
27-2	2.5-4'	4.5	SS
28-1	1-2.5'	6.0	SSG
28-2	2.5-4'	4.3	Light silt
29-1	1-2.5'	4.2	SSG
29-2	2.5-4'	6.0	SS
30-1	1-2.5'	5.7	SSG
30-2	2.5-4'	5.2	SS
30-1	1-2.5'	5.1	Silty sand w/ b
31-2	2.5-4'	5.7	Sandy silt

SIX FEET DEEP ON LINE

Edge of pavement

110' E / 20' W

x Buck talk to Goody - Doesn't know of Camp etc - CAN RIP OUT WHOLE

(Edge of pavement) 10' W

↑ N

7/11/16 HOWER MAINT. STA. RETENTION POND ⑬

ID	BGS	PID	
32-1	1-2.5'	5.2	Silty sand w/ gravel
32-2	2.5-4'	5.4	Sandy silt
33-1	1-2.5'	4.5	SSG
33-2	2.5-4'	4.3	SS
34-1	1-2.5'	4.0	SSG
34-2	2.5-4'	4.7	SS
35-1	1-2.5'	3.9	SSG
35-2	2.5-4'	6.1	SSG
36-1	1-2.5'	3.0	SSG
36-2	2.5-4'	4.7	SS
37-1	1-2.5'	4.0	SSG
37-2	2.5-4'	5.3	SS
38-1	1-2.5'	4.5	SSG
38-2	2.5-4'	3.9	SS
39-1	1-2.5'	3.9	SSG

Silty SAND w/ gravel = SSG
 SANDY SILT = SS
 SILT = SILT

SIZE of RETENTION POND
 19' x 24' ~ 646 sq. FEET

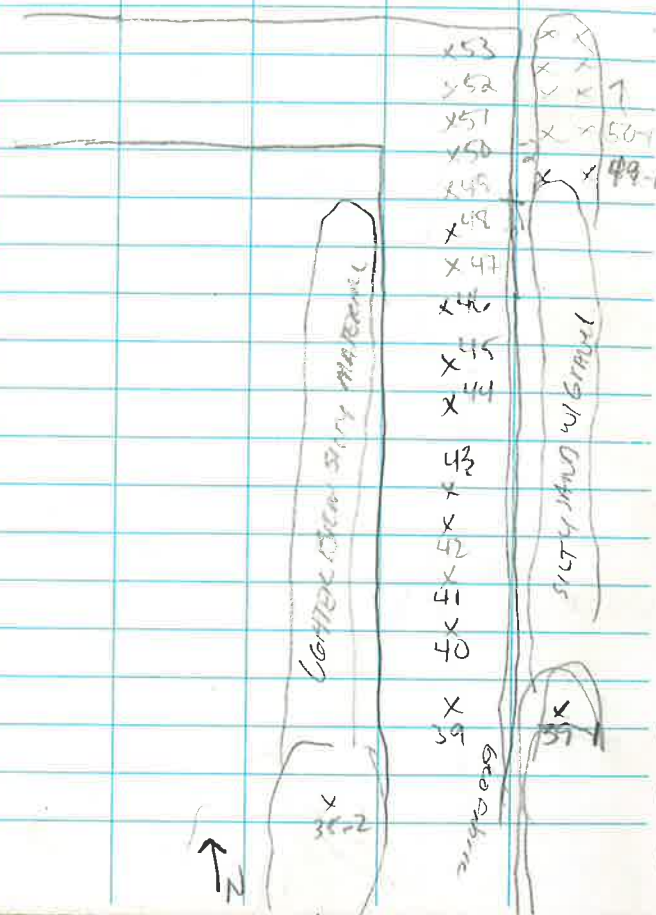
5' deep - 2' deep
 Left Side @ 1745

Rite in the Rain.

14

7/12/16 HOMER MAINT. STA. RETENTION POND
 Onsite 0830, sunny ~46°F High 68°F

Met w/ Buck & Phillip - finishing trench to start:



7/12/16

HOMER MAINT. RETENTION POND

15

AMBIENT 0.2ppm

ID	BGS	PID	NOTES
39-2	2.5'-4'	0.8	SS
40-1	0-2.5'	2.6	SS6
40-2	2.5'-4'	2.6	SS
41-1	0-2.5'	2.2	SS6
41-2	2.5'-4'	1.7	SS
42-1	0-2.5'	1.5	SS6
42-2	2.5'-4'	1.3	SS
43-1	0-2.5'	1.1	SS6
43-2	2.5'-4'	0.7	SS
44-1	0-2.5'	2.0	SS6
44-2	2.5'-4'	1.8	SS
45-1	0-2.5'	1.7	SS6
45-2	2.5'-4'	2.0	silt w/ sand
46-1	0-2.5'	1.8	SS6
46-2	2.5'-4'	1.7	SS
47-1	0-2.5'	2.1	SS6
47-2	2.5'-4'	1.8	silt w/ sand
48-1	0-2.5'	2.1	SS6
48-2	2.5'-4'	1.8	sandy silt w/ gravel
49-1	0-2.5'	2.2	SS
49-2	} 0-4' grabbed from	1.2	SS6
50-1		1.6	SS6
50-2		2.2	SS6

stock pile along trench

Rite in the Rain

16) 7/12/16 HOMER MAINT. STA. RETENTION POND

ID	BGS	PID	NOTES
51-1	1-4'	1.5	
51-2		1.3	
52-1		1.5	SSG
52-2		2.2	
53-1		1.3	
53-2		2.4	

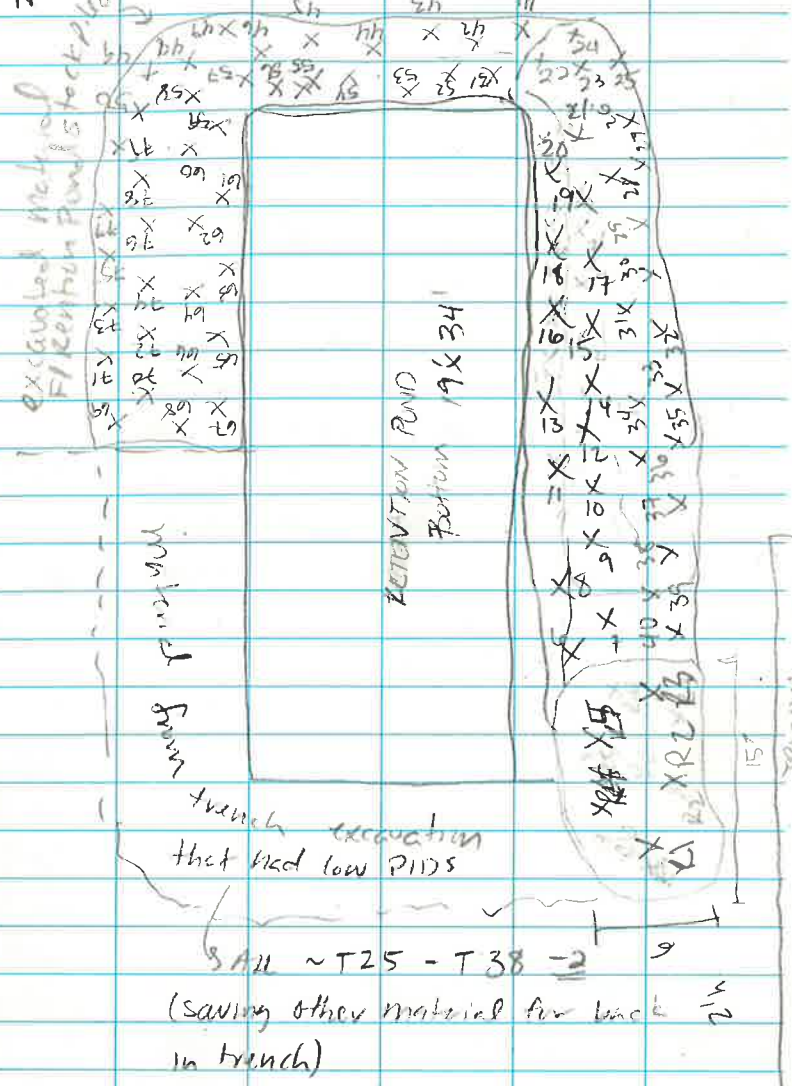
↳ stockpiled along trench

GOING TO USE AS MUCH MATERIAL AS POSSIBLE FROM EXCAVATION AS BERM AROUND RETENT. POND - AS EXCAVATING - SOIL WILL BE PLACED AROUND POND AREA FOR BERM & WILL SCREEN THE BERM - ANY AREAS THAT READ HIGHER THAN A 10 PPMV - WILL BE SCREENED MORE TO FIND EXTENT & WILL BE REMOVED P/BERM

17

7/12/16 HOMER MAINT. STA. RETENTION POND

All samples collected btwn 10-18" in stockpile



Rite in the Rain.

7/12/16 HOMER MAINT. STA
RET. POND

(18)

ID	PID	NOTES	ID	PID	NOTES
R1	2.9	SILTY SAND & GRAVEL	R25	2.2	
R2	2.6		R26	1.4	
R3	2.5	"	R27	2.4	
R4	1.7		R28	2.2	
R5	1.6		R29	2.6	
R6	1.5		R30	3.3	
R7	1.7		R31	1.9	
R8	1.8		R32	2.5	
R9	1.9		R33	2.7	
R10	2.1		R34	2.8	
R11	1.4		R35	2.7	
R12	1.9		R36	1.9	
R13	1.6		R37	1.6	
R14	2.0		R38	2.5	
R15	2.7		R39	2.8	
R16	1.5		R40	4.0	
R17	2.3		R41	5.9	
R18	2.2		R42	5.5	
R19	2.3		R43	3.7	
R20	2.5		R44	4.6	
R21	2.3		R45	4.3	
R22	1.9		R46	5.3	
R23	2.4		R47	5.4	
R24	2.6		R48	5.6	

SAND and gravel

SILTY SAND & GRAVEL

w/ organics

7/12/16 HOMER MAINT. STA
RETENTION POND

(19)

1100 - MAST ROCK, DOT taken - Proj. Mary
Under km - DISCUSSED OPTIONS
NO OPTION 1
= CHARACTERIZES STOCKPILE
- A-DEC Transport to ASR OR OFFSITE
DISPOSAL
- LANDSPREAD
- OR KENAI LANDFILL
R = RETENTION POND

ID	PID	NOTES	ID	PID	NOTES
R49	5.1		R65	2.6	
R50	5.2		R66	2.7	
R51	3.7		R67	2.9	
R52	3.1		R68	3.6	
R53	4.6		R69	3.7	
R54	3.3		R70	2.2	
R55	3.4		R71	2.8	
R56	3.7		R72	3.2	
R57	3.3		R73	3.4	
R58	3.7		R74	4.6	
R59	3.3		R75	3.4	
R60	3.1		R76	4.3	
R61	1.7		R77	4.2	
R62	4.1		R78	3.8	
R63	2.2		R79	3.9	
R64	2.5				

Medium to coarse silty sand and gravel with organics.

same

Note in the Rain.

7/12/16 HOMER MAINT. STA. RETENT. POND (20)

1220 Matt Tanaka → Matt Buck boss DOT

Phone call w/ DAVID w/ MATT

NO ANSWERS - WHAT UNTIL AFTER LUNCH TO CALL MATT TANAKA

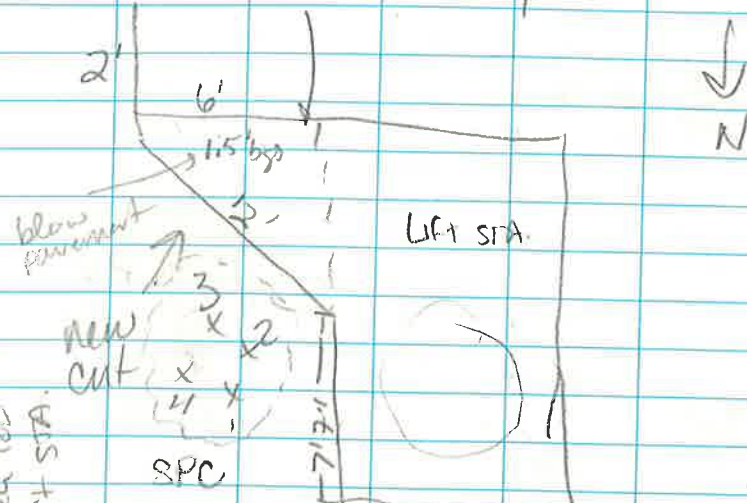
1400 - CONTACTED MATT TANAKA,

BROUGHT DAVID & BUCK IN THE CONVERSATION →

- OUTCOME: DAVID WILL MAKE THE CONTACT W/ DEL ABOUT THE SITE & INTRODUCE MATT TANAKA TO DEL → THEN SINCE STOCKPILE IS OUT OF THE WAY IT WILL BE PART OF SEPERATE TIMELINE & DOT WILL BE PASSED THE ISSUE OF THE STOCKPILE. BUCK SAID WILLING TO HELP W/ ANYTHING BUT NEEDS IT IN A CHAGE ORDER & NOT INTERRUPT

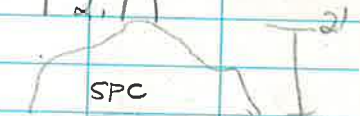
7/12/16 HOMER MAINT. STA. RETENTION POND (21)

MAINT. FACILITY



Excavated additional area for conduit/electrical to lift sta.

ID	PID	NOTES
SPC1	2.0	silly sand and gravel
SPC2	2.8	
SPC3	2.8	
SPC4	2.9	



average about 1.5' ~ 1.6 - 2 cu yds

Rate in the Rain

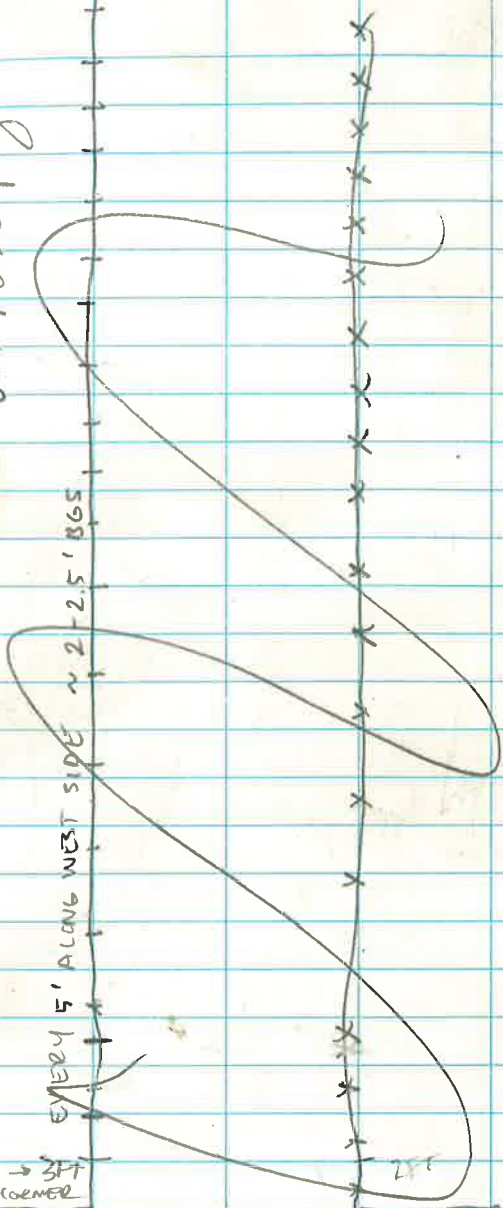
22

ledrain
on next pg

EVERY 5' ALONG WEST SIDE ~ 2-2.5' BGS

STARTED → 3FT
OFF OF CORNER

LIFT STA 1



3' bgs to TOP of Pavement

HOMER MAINT STA. RETENT. POINT (23)

7/12/16

EDGE OF
Pavement
Brent

See notes/Comments
on next page

accidently skipped when #

corner

TRENCH - LEFT IN PLACE SIDEWALK SAMPLING

LIFT STA

Collected W4 @ 1800 *late in the Rain*

ID	PID
E1 W1	5.9 10.3
E2 W2	183.5 487.4
E3 W3	867.5 839.3
E4 W4	720.1 841.3
E5 W5	
E6 W6	736.4 693.4
E7 W7	550.3 362.0
E8 W8	29.5 28.4
E9 W9	120.3 328.4
E10 W10	612.2 481.2
E11 W11	104.0 442.8
E12 W12	27.8 40.0
E13 W13	31.7 31.3
E14 W14	19.4 36.3
E15 W15	217.8 43.7
E16 W16	29.5 10.8
E17 W17	27.8 54.4
E18 W18	30.2 48.6
E19 W19	54.2 31.3
E20 W20	55.8 19.3
E21 W21	29.6 8.7
E22 W22	11.0 8.0

24

7-12-16

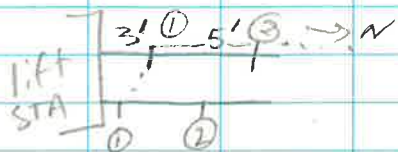
HOMER MAINT. STA RETENTION POND

FINAL FIELD SCREENING CONDUCTED:

FIELD SCREENED SIDENALLS

all approx 2-2.5' bgs - below
From bottom of asphalt

West side of trench was measured
and marked off - starting 3'
beginning at edge of lift station 3'
then marked off every 5'



East side of trench was then
collected in between each of the
marked 5' locations on the W side

* Accidentally skipped labeling #5
field screen sample → (5) was
never collected

left site @ 1815

CB

ATTACHMENT C

SELECT SITE PHOTOGRPHS



Lift Station Excavation, view northeast (7-11-16)



Lift Station Stockpiles: Stockpile A (left) and Stockpile B (right) (7-11-16)



Water Line Trench excavation, view north (7-11-16)



Water Line Trench excavation, view south (7-11-16)



Retention Pond Excavation, view south (7-12-16)



Retention Pond Excavation, view south (7-12-16)



Segregated stockpiled soil, view southeast (7-12-16)



Segregated stockpiled soil covered, view northeast (7-12-16)