





Trimble uncorrected numbers

$$\begin{array}{r} \checkmark 10.1 = 40.5466132 \\ -74.1272531 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark 15.0 = 40.5459041 \\ -74.1206196 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark 6.0 = 40.5549453 \\ -74.1252549 \\ \hline \end{array}$$

$$\begin{array}{r} / 7.0 = 40.5536011 \\ -74.1232103 \\ \hline \end{array}$$

$$\begin{array}{r} / 7.1 = 40.5536426 \\ -74.1229778 \\ \hline \end{array}$$

$$\begin{array}{r} / 9.1 = 40.544509 \\ -74.12873449 \\ \hline \end{array}$$

$$\begin{array}{r} / 9.2 = 40.5445655 \\ -74.1283302 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark 10.0 = 40.5454895 \\ -74.1260285 \\ \hline \end{array}$$

$$\begin{array}{r} / 11.0 = 40.546795 \\ -74.123499 \\ \hline \end{array}$$

$$\begin{array}{r} / 11.1 = 40.547932 \\ -74.124096 \\ \hline \end{array}$$

$$\begin{array}{r} \cancel{12.0} = \cancel{40.} \\ \cancel{-74.} \end{array}$$

$$\cancel{13.0}$$

$$\begin{array}{r} \checkmark 13.0 = 40.543022 \\ -74.126155 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark 14.0 = 40.5436368 \\ -74.1248630 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark 16.0 = 40.54761242 \\ -74.11802490 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark 9.0 = 40.5447983 \\ -74.12745048 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark 12.1 = 40.54904188 \\ -74.11946941 \\ \hline \end{array}$$

1800-704-9804
(686) 7656

59 wlex
2002
wed.

106-7957 201
wed.

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 61CP BORING # 3KPMDD4-D1.0
 PROJECT NAME 61CP JOB #
 LOCATION

SAMPLER

Datum Hammer Wt. lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size 2 In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brn silty sand								
2									
3	Brk. pieces NO TRASH								
4	Brn clayey SILT								

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER 1 HRS. FT.
 AFTER 24 HRS. FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-01.0

SAND + SILT

RECORD OF SOIL EXPLORATION

CONTRACTED WITH CKP BORING # CKP MOD 4-021
 PROJECT NAME CKP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Reddish Brn clayey SILT								
2									
3	Reddish Brn SILT w/ some CLAY								
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ MRS. _____ FT.
 AFTER 24 MRS. _____ FT.

BORING METHOD
 HSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKP MOD4-02.0

Reddish Brn Sly CLAY
& Clayey SILT

CONTRACTED WITH	PROJECT NAME	LOCATION
BORING #	JOB #	

Date Started	_____	Pipe Size	_____ In.	Boring Method	_____	Date Completed	_____
Surf. Elev.	_____ Ft.	Hammer Drop	_____ In.	Rock Core Dia.	_____	Inspector	_____
Water Wt.	_____ Lbs.	Hole Diameter	_____	Foreman	_____		

BORING METHOD
 NSA-HOLLOW STEEL ALGERS
 CFA-CONTINUOUS FLIGHT ALGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TLRA

GKPMOD4-03.0

7/13/13 1540

Ash + trash

GLP + CRA

GRAND 4-03.1

7/14/13 1000

thin layer of Ash + glass

RECORD OF SOIL EXPLORATION

CONTRACTED WITH GKP BORING # GKPMOD4-03.2
 PROJECT NAME GKP JOB #
 LOCATION

SAMPLER

Date Hammer Wt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1									
2									
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER HRS. FT.
 AFTER 24 HRS. FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKP MOD 4-03.2

Clayey SILT

7/14/13

1547

33

6K2

REMARKS

Inspector

Foreman

Date Completed

Elev.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	Cond.	Blogs/in ³	No.	Type	Rec.	BOREHOLE & SAMPLING NOTES
	SURFACE	0.0							
	topsoil								
	8 in Sandy								
	clay								
	Ashy Boulder glassy								

SAMPLE CONDITIONS	SAMPLE TYPE	GROUND WATER DEPTH	BORING METHOD
D-DISTINGUISHED	DS-DRIVEN SPLIT SPOON	AT COMPLETION	MSA-WALKER STEEL AUGERS
I-INTACT	PT-PRESSED SEALTY TUBE	AFTER 100'	CFA-CONTINUOUS FLIGHT AUGERS
U-UNDISTURBED	CA-CONTINUOUS FLIGHT AUGER	AFTER 24 HRS.	DC-DRIVING CASING
L-LOST	AC-ROCK CORE		MC-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# WANNER FALLING 30"; COUNT MADE AT 6" INTERVALS

6KP TCRA

6KPMOD4- 03.3

7/16/13 0845

Ash + glass @ 2' depth

0350 12074 0350

PROJECT NAME

LOCATION

03/25/01

Surf. Elev.

Date Started

_____ Lt. J. J. J.

Letter Drop _____ in _____

Tip Size _____ **In.**

REMARKS

Hole Diameter:

Rock Core Dia.

Working Method

FOR THE

2005

DATE

DESCRIPTION

STILL- LIVED

**STVS
FILED**

Cond.

1

100

34

ad

339

NOTES
BORING & SAMPLING

Wm
Gardner
500
St. Louis
Mo

1607-7
U-UNIDENTIFIED
I-INTACT
D-DISINTEGRATED
SAMPLE CONDITIONS

SAMPLE TYPE
OS-DRIVEN SPLIT SPON
PT-PRESSED SNELET TUBE
CA-CONTINUOUS FLIGHT ALBER
NO-NOCK CODE

GROUND WATER DEPTH AT COMPLETION

FT.	26
FT.	26
FT.	26

NO-DRILLING
NO-DRILLING CASTING
NO-DRILLING CASTING
NO-DRILLING CASTING
NO-DRILLING CASTING

*STANDARD PENETRATION TEST DRIVING 2" CO SUPPLY 1" WITH 140F WATER FALLING 30"- COUNT MADE AT 6" INTERVALS

GP TCRA

GP MOD 4 - 03.4

7/16/13 0915

Sand + gravel - wet

RECORD OF SOIL EXPLORATION

CONTRACTED WITH GKP BORING # GKP/MOBY-63.5
 PROJECT NAME GKP JOB #
 LOCATION

SAMPLER

Datum Hammer Wt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
	Topsoil								Adjacent to sidewalk and drop-off to creek
	Brn. sly sand with some coarse gravel								

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER HRS. FT.
 AFTER 24 HRS. FT.

BORING METHOD
 HSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKPMDD4-03.5

GKP TERA

7/16/13

0950

Brn Sly Sand
w/ some Coarse
Gravel.

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 12 KIP BORING # 648 MOD 4-04.0
 PROJECT NAME 12 KIP JOB #
 LOCATION

SAMPLER

Datum Hammer Mt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brn Coarse SAND								4983 CPM
2									
3									
4	No Trash Brick pieces at bottom								

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER HRS. FT.
 AFTER 24 HRS. FT.

BORING METHOD
 HSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKPTURA

GKP MOD4-04.0

7/13/13

1330

Coarse SAND
Brick pieces at bottom

RECORD OF SOIL EXPLORATION

CONTRACTED WITH _____ BORING # GAPMODY. 5.0
 PROJECT NAME GKP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1									
2	Brn Silt w/some clay								
3									
4	Brn Coarse Sand								

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 NSA-HOLLOW STEEL AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH GKP BORING # 6KPM0D4-051
 PROJECT NAME GKP JOB # _____
 LOCATION _____

SAMPLER

Date _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Bore core Sand.								note 4350 cfm
2									con 7:14/hr 4320
3									
4									5.0 wooden 40.5562462 74-126997-3

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 NSA-HOLLOW STEEL AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-05.1

7/13/13 1300

Coarse Sand

7 yR/hr 4320 CPM

RECORD OF SOIL EXPLORATION

CONTRACTED WITH GRP BORING # 61/RMOD4-05.2
 PROJECT NAME GRP JOB # 6
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Bm: sly unbl. possible coal as no glass or trash observed								Surf. 355 ft Core = 475 ft
2									
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ MRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 ND-NO-DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMWD4-05.2

7/16/13 1600

~~Too~~ possible industrial
fill - coal pieces
no trash or glass
observed

RECORD OF SOIL EXPLORATION

CONTRACTED WITH LOKP BORING # 6KPMODY-06.0
 PROJECT NAME LOKP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brn sly coarse sand								
2	gray sly clay								
3	Brn sly coarse SAND								
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 RSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 6KP BORING # 6KPMOD4-06.1
 PROJECT NAME 6KP JOB # 6KPMOD4-06.1
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. _____ Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	3 in slt coarse sand								
2	up/ same light grey clay								
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 HSA-HOLLOW STEEL AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

Course End

5 y/r/h 4032 cm

7/13/13 1017

GKPMOD 4-06.1

GKP TCRA

RECORD OF SOIL EXPLORATION

CONTRACTED WITH _____ BORING # _____
 PROJECT NAME SKP JOB # SKPmod4-06:2
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
	Brn Coarse Sand								

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 OS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ MRS. _____ FT.
 AFTER 24 MRS. _____ FT.

BORING METHOD
 HSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

6KP TCF A

6KP MOD 4- DL-2

7/16/13 1207

Bm Course S/HND

RECORD OF SOIL EXPLORATION

CONTRACTED WITH _____ BORING # _____
 PROJECT NAME CRP JOB # 10KRM004-06.3
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
	Top soil								
	glass								
	Born								
	silic								
	sand								
	w/ glass								
	& material								

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 HSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKPMODY-06.3

7/16/13 ~~A~~ 1230

Glass + metal

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 6KIP BORING # 6KIP MOD 4-06.7
 PROJECT NAME 6KIP JOB #
 LOCATION

SAMPLER

Date Hammer Wt. 140 Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Glass + Ash						Surface		524L 54
2							Core		5555
3	Dk gray clay								
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER 1 HRS. FT.
 AFTER 24 HRS. FT.

BORING METHOD
 HSA-HOLLOW STEIN AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-DL.4

7/16/13 1625

Asht Glass

RECORD OF SOIL EXPLORATION

CONTRACTED WITH _____ BORING # GKPM024-07.0
 PROJECT NAME GAP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Trash. glass pieces Black slag								40.55361059 14.12321864
2									
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-07.0

7/12/13

1530

Trash - Glass

7 GR/hr

6206 cpm

RECORD OF SOIL EXPLORATION

CONTRACTED WITH

PROJECT NAME

LOCATION

BORING #

JOB #

SAMPLER

Datum

Hammer Wt.

Lbs.

Hole Diameter

Foreman

Surf. Elev.

Ft.

Hammer Drop

In.

Rock Core Dia.

Inspector

Date Started

Pipe Size

In.

Boring Method

Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	metal glass pieces								
2									
3	glass								
4	coal/glas								

SAMPLE CONDITIONS

D-DISINTEGRATED

I-INTACT

U-UNDISTURBED

L-LOST

SAMPLE TYPE

DS-DRIVEN SPLIT SPOON

PT-PRESSED SHELBY TUBE

CA-CONTINUOUS FLIGHT AUGER

RC-ROCK CORE

GROUND WATER DEPTH

AT COMPLETION _____ FT.

AFTER _____ HRS. _____ FT.

AFTER 24 HRS. _____ FT.

BORING METHOD

BSA-HOLLOW STEM AUGERS

CFA-CONTINUOUS FLIGHT AUGERS

DC-DRIVING CASING

ND-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD 4-7.1

7/12/13 1600

Trash - glass
metal

5 yk/hr 7337 cpm

RECORD OF SOIL EXPLORATION

CONTRACTED WITH _____ BORING # GKPMOD4-7.2
 PROJECT NAME GKP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
	Topsoil								
1	Brn Coarse sand								
2	Trash + glass								
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 HSA-ROLLUP STEEL AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 6KP BORING # 6KPM04-08-0
 PROJECT NAME 6KP JOB #
 LOCATION

SAMPLER

Datum Hammer Wt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Glass bottle neck plastic Trash								40.55164019 74.12088535 4712 cpm 5 yR/h
2									4970 cpm 5 yR/h
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER HRS. FT.
 AFTER 24 HRS. FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 OC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

6KPMOD4-0.8.0

7/13/13 0800

4970 ^{CAY}
~~4R/hr~~ 5 4R/hr

Trash

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 6KP BORING # 6KPMODY 0.8.1
 PROJECT NAME 6KP JOB #
 LOCATION

SAMPLER

Datum Hammer Wt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	3 in Coarse Sand								4460 jam core 6 yds/hr
2									
3	6/10 ss								
4	metal chunks								

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER NRS. FT.
 AFTER 24 NRS. FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKBMOD4-08.1

7/13/13 0830

Trash - metal & glass

4460 ^{CPM}
~~4R/hr~~ 6 yr/hr

RECORD OF SOIL EXPLORATION

CONTRACTED WITH NPS/USACE BORING # GKPMOD4-09.0
 PROJECT NAME GKP JOB # _____
 LOCATION GKP

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman J. Konck
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector J. Konck
 Date Started _____ Pipe Size _____ In. Boring Method GP Date Completed 7/19/13

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
0.5	Brown silty sand + gravel								
1									
2	Gravel layers								
3	Brick Brown silty sand + gravel								
4	Brick pieces + charcoal pieces								

SAMPLE CONDITIONS

D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE

DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH

AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD

NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 6KP BORING # 6KPMDD4-09.1
 PROJECT NAME 6KP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							3 1/2 ft/hr 3-5 ft/hr on core
1	Brn Coarse Sand								
2									
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ MRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 RSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH GRP BORING # 628 PMODY-09.2
 PROJECT NAME GRP JOB #
 LOCATION

SAMPLER

Datum Hammer Wt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Slows/6"	No.	Type	Rec.	
	SURFACE	0.0							
4									
1	glass and fill Black in color								1.5' recovery
2									
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER MRS. FT.
 AFTER 24 MRS. FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH NPS/USACE BORING # GKPMDDH-10.0
 PROJECT NAME GKP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brn Coarse SAND								
2									
3									
4									

SAMPLE CONDITIONS
 O-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASTING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH _____ BORING # GKPMODH-10.1
 PROJECT NAME 12 KP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Ten Coarse Sand								
2									
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 NSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH GKP BORING # GKP/MDY-11-0
 PROJECT NAME GKP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Bore Coarse Sand Top								
2									
3									
4									
	some gravel								

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ MRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 NSA-HOLLOW STEEL AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 6KP BORING # 6KPMOD4-11.1
 PROJECT NAME 6KP JOB #
 LOCATION

SAMPLER

Datum Hammer Wt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brn coarse sand & gravel								
2									
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER 1 HRS. FT.
 AFTER 24 HRS. FT.

BORING METHOD
 HSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 62K1 BORING # 62KPMOD4-12.2
 PROJECT NAME 62K1 JOB #
 LOCATION

SAMPLER

Datum Hammer Wt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	3.5m + B/K sly clay								Surface 2507
2									Core 29.66 3 w/h/hr
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER MRS. FT.
 AFTER 24 MRS. FT.

BORING METHOD
 HSA-HOLLOW STEEL AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-12.0

7/15/13 0900

Brn + BK SL, CLAY

RECORD OF SOIL EXPLORATION

CONTRACTED WITH GKP BORING # 6K1 01 011
PROJECT NAME _____ JOB # _____
LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions.	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	#blows/6"	No.	Type	Rec.	
	SURFACE	0.0							42,5490418 -74,1194694
	glass coal Ash								4207 cpm surf 3883 cpm sample

SAMPLE CONDITIONS
D-DISINTEGRATED
I-INTACT
U-UNDISTURBED
L-LOST

SAMPLE TYPE
DS-DRIVEN SPLIT SPOON
PT-PRESSED SHELBY TUBE
CA-CONTINUOUS FLIGHT AUGER
RC-ROCK CORE

GROUND WATER DEPTH
AT COMPLETION _____ FT.
AFTER _____ HRS. _____ FT.
AFTER 24 HRS. _____ FT.

BORING METHOD
ISA-HOLLOW STEM AUGERS
CFA-CONTINUOUS FLIGHT AUGERS
DC-DRIVING CASING
MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKP NLOD 4-12.1

Trash - glass - coal

RECORD OF SOIL EXPLORATION

CONTRACTED WITH _____ BORING # GKPM2D4-13.0
 PROJECT NAME GKP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Tan Coarse Sand w/ some gravel								2.3' recovery
2									
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ MRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 RSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH _____ BORING # GKPMOD4-14.0
 PROJECT NAME GKP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Tan Coarse Sand & gravel								Boring moved ~ 40' inland due to storm sand at Chris It's. & Kathleen's request.
2									
3									
4									
5									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PY-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ HRS. _____ FT.
 AFTER 24 HRS. _____ FT.

BORING METHOD
 HSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH USACE/NPS BORING # 6KPMOD4-15.0
 PROJECT NAME LUP JOB # _____
 LOCATION _____

SAMPLER

Datum _____ Hammer Wt. _____ Lbs. Hole Diameter _____ Foreman _____
 Surf. Elev. _____ Ft. Hammer Drop _____ In. Rock Core Dia. _____ Inspector _____
 Date Started _____ Pipe Size _____ In. Boring Method _____ Date Completed _____

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brown Coarse SAND								
2									
3									
4									

SAMPLE CONDITIONS
 O-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION _____ FT.
 AFTER _____ MRS. _____ FT.
 AFTER 24 MRS. _____ FT.

BORING METHOD
 RSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL EXPLORATION

CONTRACTED WITH 6KP BORING # 6KPM 074-16.0
 PROJECT NAME 6KP JOB #
 LOCATION

SAMPLER

Datum Hammer Wt. Lbs. Hole Diameter Foreman
 Surf. Elev. Ft. Hammer Drop In. Rock Core Dia. Inspector
 Date Started Pipe Size In. Boring Method Date Completed

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brn 6"7 sly clay								40.5476124
2	Brn Coarse sly sand								-74.71802470
3									
4									

SAMPLE CONDITIONS
 D-DISINTEGRATED
 I-INTACT
 U-UNDISTURBED
 L-LOST

SAMPLE TYPE
 DS-DRIVEN SPLIT SPOON
 PT-PRESSED SHELBY TUBE
 CA-CONTINUOUS FLIGHT AUGER
 RC-ROCK CORE

GROUND WATER DEPTH
 AT COMPLETION FT.
 AFTER MRS. FT.
 AFTER 24 HRS. FT.

BORING METHOD
 HSA-HOLLOW STEM AUGERS
 CFA-CONTINUOUS FLIGHT AUGERS
 DC-DRIVING CASING
 MD-MUD DRILLING

*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS



Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top soil, organic rich		0945	90%	N/A	N/A		
		SM	Silty sand, little fine gravel, brown (7.5 yr 4/4), fine to medium grained, med dense, dry to moist, no odor/stn, no landfill material, NATIVE			7 ft				Backfill w/ beetle chips
5									5	
10		ML	Sandy silt, brown (7.5 yr 4/4), very fine to fine grained, non plastic, firm, med dry to moist, no odor/stn, no landfill material, NATIVE						10	
15									15	
20		SM	Same as 0.5-2 ft Sample						20	
25		SM	Same as above, some fine to coarse gravel, mottled greenish gray (GLE 1 5/56)						25	
30									30	
35			TD = 8 feet bgs						35	

PROJECT: <u>Great Kills Park Removal Action</u>		WELL / PROBEHOLE / BOREHOLE NO: <u>GKP-C23-02</u>	
LOCATION: <u>Great Kills Park, Staten Island, NY</u>		PAGE <u>1</u> OF <u>1</u>	
PROJECT NUMBER:		NORTHING (ft):	
DRILLING: STARTED <u>6/26/14</u> COMPLETED: <u>6/26/14</u>		EASTING (ft):	
INSTALLATION: STARTED <u>N/A</u> COMPLETED: <u>N/A</u>		LONGITUDE: <u>-74.12542552</u>	
DRILLING COMPANY: <u>Tidewater</u>		GROUND ELEV (ft): <u>27.985</u>	
DRILLING EQUIPMENT: <u>Geoprobe 7822DT</u>		TOC ELEV (ft):	
DRILLING METHOD: <u>Direct Push</u>		BOREHOLE DEPTH (ft): <u>8</u>	
SAMPLING EQUIPMENT: <u>Continuous Core</u>		WELL DEPTH (ft): <u>N/A</u>	
		BOREHOLE DIAMETER (in): <u>2</u>	
		LOGGED BY: <u>D. Dressler</u> CHECKED BY: <u>C Gray</u>	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top soil, organic rich		0918	90%	N/A	N/A		
						7 feet				
5		ML	Sandy silt, reddish brown (5YR 4/4), very fine to fine grained, non plastic, firm, dry to moist, no odor/stn, no landfill material							Backfill w/ bentonite chips
10		SM	NATIVE							
15			Silty sand, trace fine to coarse gravel, reddish brown (5YR 4/4), fine to coarse							
20			Sandy, med dense, dry to moist, no odor/stn, no landfill material							
25			NATIVE							
30			wet @ 4 feet bgs, some fine to coarse gravel, mottled greenish gray (6.5Y 1 5/5G)							
35			TD = 8 feet bgs							



PROJECT: <u>Great Kills Park Removal Act</u> LOCATION: <u>Great Kills Park, Staten Island, NY</u> PROJECT NUMBER: _____				WELL / PROBEHOLE / BOREHOLE NO: <u>GKP-E24-03</u> PAGE <u>1</u> OF <u>1</u>			
DRILLING: STARTED <u>6/25/14</u> COMPLETED: <u>6/25/14</u> INSTALLATION: STARTED <u>N/A</u> COMPLETED: <u>N/A</u> DRILLING COMPANY: <u>Tidewater</u> DRILLING EQUIPMENT: <u>Geoprobe 7822DT</u> DRILLING METHOD: <u>Direct Push</u> SAMPLING EQUIPMENT: <u>Continuous Core</u>				NORTHING (ft): <u>40.555733444</u> EASTING (ft): <u>74.12430229</u> LATITUDE: _____ LONGITUDE: _____ GROUND ELEV (ft): <u>-27.016</u> TOC ELEV (ft): _____ INITIAL DTW (ft): _____ BOREHOLE DEPTH (ft): <u>8</u> STATIC DTW (ft): _____ WELL DEPTH (ft): <u>N/A</u> WELL CASING DIAMETER (in): <u>N/A</u> BOREHOLE DIAMETER (in): <u>2</u> LOGGED BY: <u>P. Messler</u> CHECKED BY: <u>C. Gray</u>			

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			<u>Top soil, organic rich</u>		<u>1148</u>	<u>75%</u>	<u>N/A</u>	<u>N/A</u>	<u>7</u>	<u>Backfilled w/ bentonite chips</u>
		<u>SM</u>	<u>Silty sand, brown (7.5% 4/4), fine grained, med dense, dry to moist, no odor / str, no landfill materials.</u>			<u>6 ft</u>			<u>8</u>	
<u>5</u>									<u>9</u>	
		<u>SM</u>	<u>Native Material</u>						<u>10</u>	
<u>10</u>			<u>Same as above, little fine to coarse gravel</u>						<u>11</u>	
			<u>fine to coarse grained, wet</u>						<u>12</u>	
<u>15</u>			<u>Native Material</u>						<u>13</u>	
			<u>TD = 8 feet logs</u>						<u>14</u>	
<u>20</u>									<u>15</u>	
<u>25</u>									<u>16</u>	
<u>30</u>									<u>17</u>	
<u>35</u>									<u>18</u>	



TIDEWATER INC

PROJECT: <i>Great Kills Park Removal Action</i>		WELL / PROBEHOLE / BOREHOLE NO: <i>GKP-G24-04</i>	
LOCATION: <i>Great Kills Park, Staten Island, NY</i>		PAGE <i>1</i> OF <i>1</i>	
PROJECT NUMBER:			
DRILLING: STARTED <i>6/25/14</i>	COMPLETED: <i>6/25/14</i>	NORTHING (ft): <i>40.55614274</i>	EASTING (ft): <i>74.1229781</i>
INSTALLATION: STARTED <i>N/A</i>	COMPLETED: <i>N/A</i>	LATITUDE:	LONGITUDE:
DRILLING COMPANY: <i>TideWater</i>		GROUND ELEV (ft): <i>-30.061</i>	TOC ELEV (ft):
DRILLING EQUIPMENT: <i>Geoprobe 7822DT</i>		INITIAL DTW (ft):	BOREHOLE DEPTH (ft): <i>8</i>
DRILLING METHOD: <i>Direct Push</i>		STATIC DTW (ft):	WELL DEPTH (ft): <i>N/A</i>
SAMPLING EQUIPMENT: <i>Continuous Core</i>		WELL CASING DIAMETER (in): <i>N/A</i>	BOREHOLE DIAMETER (in): <i>2</i>
		LOGGED BY: <i>D. Dressler</i>	CHECKED BY: <i>C. Gray</i>

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top Soil, organic rich		0936	25% 2 feet	N/A	N/A		
		SM	Silty Sand with gravel, fine to coarse gravel, dark brown (7.54% 3/4) fine to coarse grained sand, med dense, wet, no odor/stn, no landfill material found, native soil							Backfill w/ native material, borehole filled in
5										
10										
15										
20										
25										
30										
35										

TD = 8 feet bgs



TIDEWATER INC

PROJECT: Great Kills Park Removal Action WELL / PROBEHOLE / BOREHOLE NO: GK-24-05
 LOCATION: Great Kills Park, Staten Island, NY
 PROJECT NUMBER: PAGE 1 OF 1
 DRILLING: STARTED 6/24/14 COMPLETED: 6/24/14 NORTHING (ft): 40,553,786.87 EASTING (ft): 74,121,205.08
 INSTALLATION: STARTED N/A COMPLETED: N/A LATITUDE: GROUND ELEV (ft): -27.983 TOC ELEV (ft):
 DRILLING COMPANY: Tidewater INITIAL DTW (ft): BOREHOLE DEPTH (ft):
 DRILLING EQUIPMENT: Geoprobe 7822DT STATIC DTW (ft): WELL DEPTH (ft): N/A
 DRILLING METHOD: Direct Push BOREHOLE DIAMETER (in): 2
 SAMPLING EQUIPMENT: Continuous Core LOGGED BY: D. Dressler CHECKED BY: C. [unclear]

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top soil, organic rich		1634	25% 1 foot	N/A	N/A		Backfilled w/ bentonite chips
		SM	Silty sand, high % of silt, dark yellowish brown (10YR 4/3) mottling, almost all black (10YR 2/1), fine to medium grained, med dense, wet, no odor / black str (lots of organics, Landfill material present (amber and clear glass, brick) throughout core, only 1 foot recovered,							
5										
10										
15										
20			FILL MATERIAL							
25										
30										
35										

TD = 4 feet bgs



PAGE / OF

NORTHING (ft): 40,552 99526	EASTING (ft): -741 20142
LATITUDE:	LONGITUDE:
GROUND ELEV (ft): -27.454	TOC ELEV (ft):
INITIAL DTW (ft):	BOREHOLE DEPTH (ft): 4
STATIC DTW (ft):	WELL DEPTH (ft): N/A
WELL CASING DIAMETER (in): N/A	BOREHOLE DIAMETER (in): 2
LOGGED BY: D. Dressler	CHECKED BY: C. Gray

[illegible]



Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SM	<p><u>Top Soil, organic rich</u></p> <p>Silty sand, some fine gravel, dark yellowish brown (10 yr 4/3), fine to medium grained, soft, dry to moist, no odor/stn, landfill material found (asphalt pieces, glass) @ ~ 2 ft bgs</p> <p>Fill MATERIAL</p> <p>Becomes moist to wet in 4 to 8 feet bgs interval</p> <p>TD = 8 feet bgs</p>		1111	35% 3 feet	N/A	N/A		Backfill w/ bentonite chips



Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SM		<p>Top Soil, Organic Rich</p> <p>Silty Sand, some fine gravel, dark yellowish brown (10YR 4/3), fine to medium grained, soft, moist to wet; no odor/stn,</p> <p>Landfill material visible (asphalt pieces, lots of glass, porcelain chips)</p> <p>Fill Material</p> <p>TD = 4 feet bgs</p>		1053	40% 1.5 feet	N/A	N/A	<p>▽</p> <p>△</p> <p>△</p> <p>▽</p> <p>△</p>	Backfilled w/ bentonite chips



TIDEWATER INC

PROJECT: Great Kills Park Removal Action
 LOCATION: Great Kills Park, Staten Island, NY
 PROJECT NUMBER:

WELL / PROBEHOLE / BOREHOLE NO: GKP-Q23-09

PAGE 1 OF 1

DRILLING: STARTED 6/24/14 COMPLETED: 6/24/14
 INSTALLATION: STARTED N/A COMPLETED: N/A
 DRILLING COMPANY: Tidewater
 DRILLING EQUIPMENT: Geoprobe 7822DT
 DRILLING METHOD: Direct Push
 SAMPLING EQUIPMENT: Continuous Core

NORTHING (ft): 40,550,453.55 EASTING (ft): -74,118,509.82
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): -28.073 TOC ELEV (ft):
 INITIAL DTW (ft): BOREHOLE DEPTH (ft): 8.4
 STATIC DTW (ft): WELL DEPTH (ft): N/A
 WELL CASING DIAMETER (in): N/A BOREHOLE DIAMETER (in): 2
 LOGGED BY: D. Dressler CHECKED BY: C. Gray

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top Soil, organic rich		1036	50% 2 feet	N/A	N/A		
		SM	Silty sand with fine to coarse gravel (asphalt material), dark yellowish brown (10YR 4/3), fine to medium grained, med dense, dry to moist, no odor/stn, landfill material found in last foot of material (glass, plastic knob)							
			Fill Material:							
			TD = 4 feet bgs							
										Backfill w/ bentonite chips



TIDEWATER INC

PROJECT: Great Kills Park Removal Action WELL / PROBEHOLE / BOREHOLE NO: GKP-R22-10
 LOCATION: Great Kills Park, Staten Island, NY
 PROJECT NUMBER: _____ PAGE 1 OF 1
 DRILLING: STARTED 6/24/14 COMPLETED: 6/24/14 NORTHING (ft): 42,549,850.67 EASTING (ft): 74,117,918.68
 INSTALLATION: STARTED N/A COMPLETED: N/A LATITUDE: _____ LONGITUDE: _____
 DRILLING COMPANY: Tidewater GROUND ELEV (ft): -26.736 TOC ELEV (ft): _____
 DRILLING EQUIPMENT: Geoprobe 7822DT INITIAL DTW (ft): _____ BOREHOLE DEPTH (ft): 8
 DRILLING METHOD: Direct Push STATIC DTW (ft): _____ WELL DEPTH (ft): N/A
 SAMPLING EQUIPMENT: Continuous Core WELL CASING DIAMETER (in): N/A BOREHOLE DIAMETER (in): 2
 LOGGED BY: Donnie Dressler CHECKED BY: C Gray

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace P/D (units)	Depth (feet)	Borehole Backfill
			Top soil, organic rich		1000	100%	N/A	N/A		
		SM	Silty Sand, trace fine gravel, dark yellowish brown (10 YR 3/4), fine to med grained, med dense, dry to moist, no odor / 5th			8 ft				
5										
			Fill Material with asphalt chips, coarse grained, from 1.5 to 2 feet bgs							
10		SM	Same as 0.5 to 1.5 feet bgs sample							
15										
			Stained and amber glass shards found at approx. 5 feet bgs							
20			Moist to wet @ 8 feet bgs							
			TD = 8 feet bgs							
25										
30										
35										

Backfilled w/ bentonite chips



TIDEWATER INC

PROJECT: Great Kills Park Removal Action		WELL / PROBEHOLE / BOREHOLE NO: GKP-G24-11	
LOCATION: Great Kills Park, Staten Island, NY		PAGE 1 OF 1	
PROJECT NUMBER:		NORTHING (ft): 40.55473924	
DRILLING: STARTED 6/25/14 COMPLETED 6/25/14		EASTING (ft): 74.12314275	
INSTALLATION: STARTED N/A COMPLETED: N/A		LATITUDE:	
DRILLING COMPANY: Tidewater		GROUND ELEV (ft):	
DRILLING EQUIPMENT: Geoprobe 7829DT		TOC ELEV (ft):	
DRILLING METHOD: Direct Push		BOREHOLE DEPTH (ft): 8	
SAMPLING EQUIPMENT: Continuous Core		WELL DEPTH (ft): N/A	
		WELL CASING DIAMETER (in): N/A	
		BOREHOLE DIAMETER (in): 2	
		LOGGED BY: D. Dressler	
		CHECKED BY: C. Brown	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace P/D (units)	Depth (feet)	Borehole Backfill
		SM	Top Soil, organic rich,		1019	35%	N/A	N/A		
		SM	Silty Sand, some fine to coarse gravel, very dark brown (10YR 2/2),			3 feet				Backfilled w/ bentonite chips
5		CL	fine to medium grained, dry, med dense, no odor/stn, found little landfill material (glass, brick).							
		SM	Fill Material							
10			Silty Sand, little fine to coarse gravel, higher % of silt, black (10YR 2/1), fine to medium grained, med dense, moist to wet, no odor (organic staining), landfill material found (glass, brick)							
15			Fill Material							
20			Clay, dark gray (10YR 4/1), med plasticity, soft, moist, no odor/stn, Possible landfill liner							
25			Silty Sand, dark brown (7.5YR 3/4), fine to coarse grained, med dense, moist to wet, no odor. Stn, organic material present (believed native soil)							
30										
35										

TD = 8 feet bgs

[illegible]

PROJECT: <u>Great Kills Park Removal Action</u>		WELL / PROBEHOLE / BOREHOLE NO: <u>GKP-F23-13</u>	
LOCATION: <u>Great Kills Park, Staten Island, NY</u>		PAGE <u>1</u> OF <u>1</u>	
PROJECT NUMBER:			
DRILLING: STARTED <u>6/25/14</u> COMPLETED: <u>6/25/14</u>	NORTHING (ft): <u>40.55502129</u>	EASTING (ft): <u>-74.1240383</u>	
INSTALLATION: STARTED <u>N/A</u> COMPLETED: <u>N/A</u>	LATITUDE:		LONGITUDE:
DRILLING COMPANY: <u>Tidewater</u>	GROUND ELEV (ft): <u>28.589</u>		TOC ELEV (ft):
DRILLING EQUIPMENT: <u>Geoprobe 7822DT</u>	INITIAL DTW (ft):		BOREHOLE DEPTH (ft): <u>8</u>
DRILLING METHOD: <u>Direct Push</u>	STATIC DTW (ft):		WELL DEPTH (ft): <u>N/A</u>
SAMPLING EQUIPMENT: <u>Continuous Core</u>	WELL CASING DIAMETER (in): <u>N/A</u>		BOREHOLE DIAMETER (in): <u>2</u>
	LOGGED BY: <u>D. Dressler</u>		CHECKED BY: <u>CLW</u>

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SM	Top Soil, organic rich silty sand, trace fine gravel, dark yellowish brown (7.5YR 3/3), fine to coarse grained, med dense, dry to moist, no the odor/stn, no landfill material		1249	35% 3 feet	N/A	N/A		backfilled w/ bentonite chips
5		SM	Same as above, brown (10YR 4/3), fine grained, organic staining (black) from 1.0 to 1.5 feet bgs							
10		SM	Same as 0.5 to 1 feet bgs, trace fine to coarse gravel, wet, mottled organic stn (black) landfill material found (glass, brick, porcelain) between 4 to 6 feet bgs							
15										
20										
25										
30										
35										

TD = 8 feet bgs



TIDEWATER INC

PROJECT: Great Kills Park Removal Action		WELL / PROBEHOLE / BOREHOLE NO: GKP-D23-14	
LOCATION: Great Kills Park, Staten Island, NY		PAGE 1 OF 1	
PROJECT NUMBER:			
DRILLING: STARTED 6/25/14	COMPLETED: 6/25/14	NORTHING (ft): 10.55570545	EASTING (ft): -74.12497929
INSTALLATION: STARTED N/A	COMPLETED: N/A	LATITUDE:	LONGITUDE:
DRILLING COMPANY: Tidewater		GROUND ELEV (ft): -28.004	TOC ELEV (ft):
DRILLING EQUIPMENT: Geoprobe 7822DT		INITIAL DTW (ft):	BOREHOLE DEPTH (ft):
DRILLING METHOD: Direct Push		STATIC DTW (ft):	WELL DEPTH (ft): N/A
SAMPLING EQUIPMENT: Continuous Cone		WELL CASING DIAMETER (in): N/A	BOREHOLE DIAMETER (in): 2
		LOGGED BY: D. Dressler	CHECKED BY: C. Gray

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top Soil, organic rich Well graded Sand, some silt fine to coarse gravel, dark brown (7.5YR 3/3), fine to coarse grained, med dense, dry, no odor/stn, landfill material found (glass) at approx. 2 to 3 ft bgs TD = 4 feet		1507	25% 1 foot	N/A	N/A		backfill w/ bentonite chips

**TIDEWATER INC**

PROJECT: Great Kills Park Removal Action
LOCATION: Great Kills Park, Staten Island, NY
PROJECT NUMBER:

WELL / PROBEHOLE / BOREHOLE NO: GKP-G24-15

PAGE 1 OF 1

DRILLING: STARTED 6/25/14 COMPLETED: 6/25/14
INSTALLATION: STARTED N/A COMPLETED: N/A
DRILLING COMPANY: TideWater
DRILLING EQUIPMENT: Geoprobe 7822DT
DRILLING METHOD: Direct Push
SAMPLING EQUIPMENT: Continuous Core

NORTHING (ft): 40,55481624 EASTING (ft): 74,12312629
LATITUDE: LONGITUDE:
GROUND ELEV (ft): -29.622 TOC ELEV (ft):
INITIAL DTW (ft): BOREHOLE DEPTH (ft): 8
STATIC DTW (ft): WELL DEPTH (ft): N/A
WELL CASING DIAMETER (in): N/A BOREHOLE DIAMETER (in): 2
LOGGED BY: D. Dressler CHECKED BY: Clary

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			<u>Top Soil, organic rich</u>		<u>1547</u>	<u>15%</u>	<u>N/A</u>	<u>N/A</u>		
		<u>SM</u>	<u>Silty Sand, some fine to coarse gravel, dark brown (7.5YR 3/3) fine to coarse grained, med dense, wet, no odor / mottled black (organic) staining, no landfill material found</u>			<u>1 foot</u>				<u>Backfill w/ native material, Cave in</u>
			<u>NATIVE MATERIAL</u>							
			<u>TD = 8 feet bgs</u>							



Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
	SM		<p>Top Soil, organic rich</p> <p>Silty sand, mottled dark brown (10YR 3/3) and black (10YR 2/1), fine to medium grained, med dense, dry, no odor / black (organic) landfill material found (glass, rubber, metal). FILL MATERIAL</p> <p>TD = 4 feet bgs</p>		1120	50% 2 feet	N/A	N/A		<p>Backfill w/ bentonite chips</p>



TIDEWATER INC

PROJECT: Great Kills Park Removal Action		WELL / PROBEHOLE / BOREHOLE NO: GKP-A22-17	
LOCATION: Great Kills Park, Staten Island, NY		PAGE 1 OF 1	
PROJECT NUMBER:			
DRILLING: STARTED 6/26/14	COMPLETED: 6/26/14	NORTHING (ft): 40.65665541	EASTING (ft): -74.12723199
INSTALLATION: STARTED N/A	COMPLETED: N/A	LATITUDE:	LONGITUDE:
DRILLING COMPANY: Tidewater		GROUND ELEV (ft): -27.631	TOC ELEV (ft):
DRILLING EQUIPMENT: Hand Auger		INITIAL DTW (ft):	BOREHOLE DEPTH (ft): 8
DRILLING METHOD: Hand Auger		STATIC DTW (ft):	WELL DEPTH (ft): N/A
SAMPLING EQUIPMENT: Hand Auger		WELL CASING DIAMETER (in): N/A	BOREHOLE DIAMETER (in): 4
		LOGGED BY: D. Dressler	CHECKED BY: C. C. C.

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SM	Top Soil, Organic Rich Silty sand, little fine to coarse gravel, brown (10YR 4/3), fine to coarse grained, med dense, dry to moist, no odor/stn, no land-fill material, APPEARS NATIVE		1435	100 8ft	N/A	N/A		Backfilled w/ bentonite chips
		SM	Same as above, trace fine to coarse gravel, fine to medium grained, no land-fill material, APPARENT FILL							
		CL	Sandy Clay, brown (10YR 4/3), fine to coarse grained, med plasticity, soft, moist to wet, no odor/mottled organic (black) staining, no landfill material							
		CL	clay, gray, high plasticity, firm, no odor/stn, no landfill material							
			TD = 8 feet bgs							