

July 13, 2020

Ms. Jenelle Gaylord Assistant Geologist, Bureau E New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway Albany, New York 12233-7017

## Intrusive Activity Summary Report – Geotechnical Borings National Grid Glenwood Landing Former Gas Plant Site Glenwood Landing, New York Site No. V00351

Dear Ms. Gaylord,

This report is a summary of work completed and data collected during intrusive activities recently conducted at the National Grid Glenwood Landing Former Gas Plant Site (the Site). The project included vacuum excavations to clear utilities at two percolation test locations and six boring locations, advancement of six geotechnical borings, and backfilling of each borehole. The work at the Site was conducted for National Grid Gas Operations (Gas Ops) by Soil Mechanics Drilling Corp. and AB Environmental.

A Notice of Intrusive Activities (NOIA) for the project was submitted to the New York State Department of Environmental Conservation (NYSDEC) on April 23, 2020. National Grid retained GEI Consultants, Inc., P.C. (GEI) to conduct field screening of the soil cuttings using a photoionization detector (PID) and environmental oversight for all intrusive activities in accordance with the Site Management Plan (SMP).

GEI was on-Site during the vacuum excavation and geotechnical borings on April 28 and 30, 2020.

#### **Summary of Field Activities**

National Grid Gas Ops' contractor AB Environmental performed soil removal activities utilizing a vacuum truck to excavate soil to a depth of five feet and retained Soil Mechanics Drilling Corp. to conduct six geotechnical borings to depths of 30 and 50 feet using hollow-stem auger drill rigs. Following the vacuum excavation on April 28, 2020, two drill rigs were mobilized to the Site to advance the geotechnical borings. Four locations were drilled to a depth of 30 feet (B-1, B-3, B-4, and B-5) and two locations were drilled to a depth of 50 feet (B-2 and B-6). The excavated soil was screened for impacts using visual and olfactory detection methods and a PID. No impacts were observed in five of the six boring locations. A faint creosote odor and fragments of wood were noted in the split-spoon sample taken from a depth of seven to nine feet in boring location B-5. The fragments of wood were screened with the PID and a reading of 298 parts per million (ppm) was observed. Due to limited recovery, the interval could not be sampled. Community Air Monitoring was set up immediately upwind and downwind of the location, following the observation of impacts at B-5. No impacts were noted in the remaining sample intervals at this location.

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The fragments of wood are believed to be from an old bulkhead and not from the former gas plant. This was primarily determined due to historical photos of the former Fyfe Shipyard and the former gas plant property prior to development that show historical bulkheads in the vicinity of the Site (**Attachment 1**). The former Fyfe shipyard was located immediately adjacent to the former gas plant property. Further evidence that the wood is likely from an old bulkhead include the depth of sample interval which was below the water table. Creosote has been known to be used as a wood preservative for old bulkheads.

The approximate location of the geotechnical borings can be found in **Attachment 2.** The geotechnical information gathered from the work conducted can be found in **Attachment 3 – Soil Mechanics Report** and **Attachment 4 – Geotechnical Boring Logs** 

### **Community Air Monitoring Results**

Real time air monitoring for total volatile organic compounds (TVOCs) and respirable particulate matter ( $PM_{10}$ ) was performed during intrusive work at boring location B-5 at upwind and downwind tripod-mounted stations. Each station consisted of a weather-tight enclosure, a PID (RAE systems MiniRAE 3000), and a dust monitor (TSI DustTrak II 8530).

There were no exceedances of the time-weighted average (TWA) for TVOCs or dust measurements during the excavation work. Air monitoring data can be provided upon request.

If you have any questions, please feel free to contact me at 516-581-7313 or by email at jessica.phillips@nationalgrid.com.

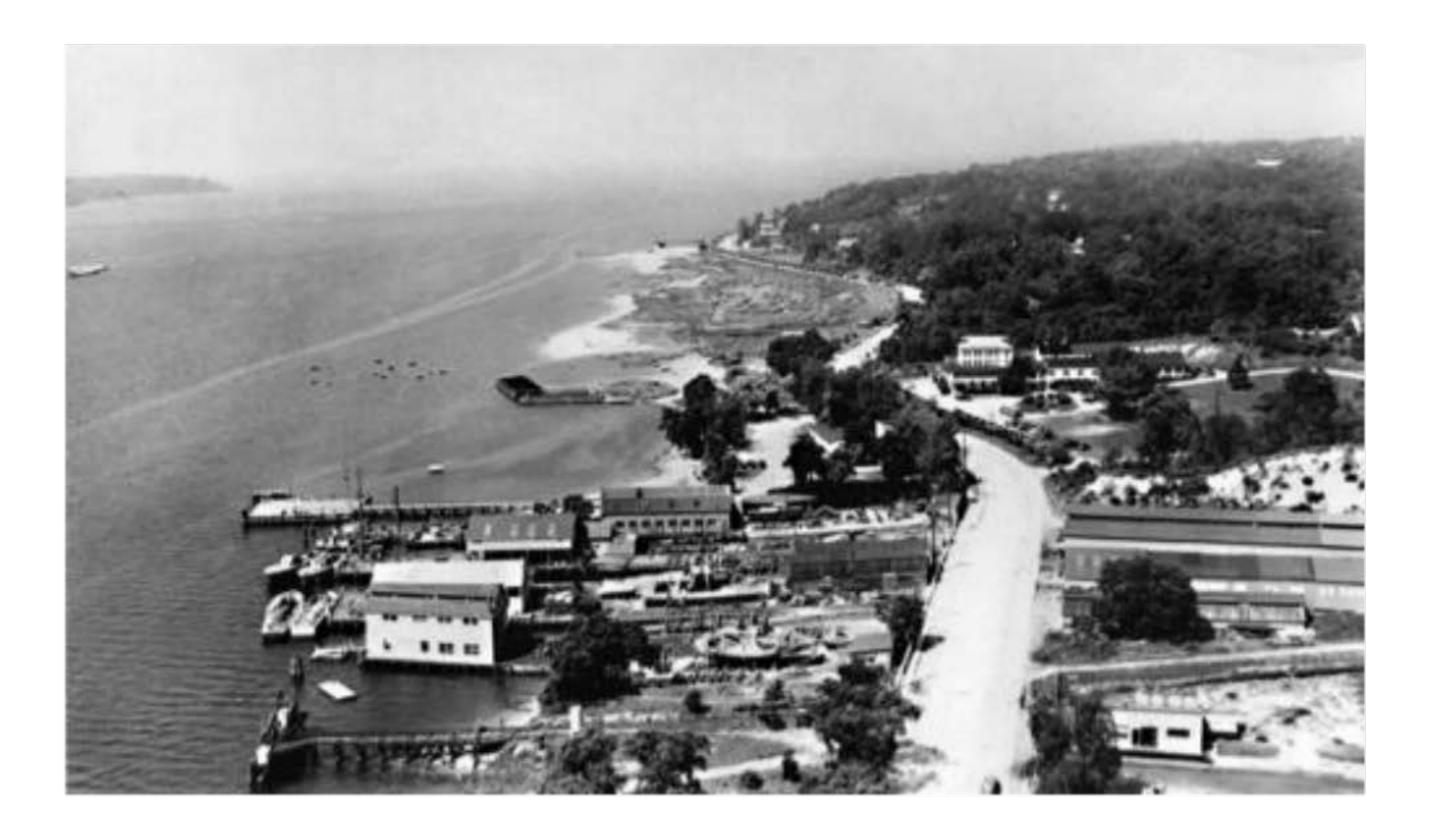
Sincerely,

Christopher Morris, P.G. On behalf of Jessica Phillips.

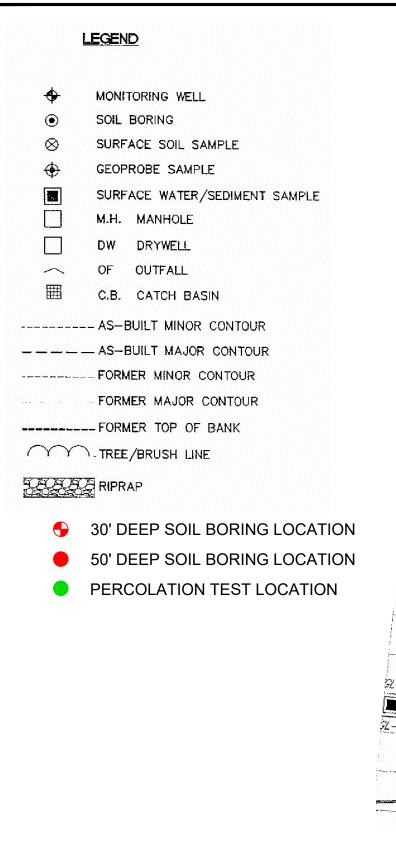
Attachments

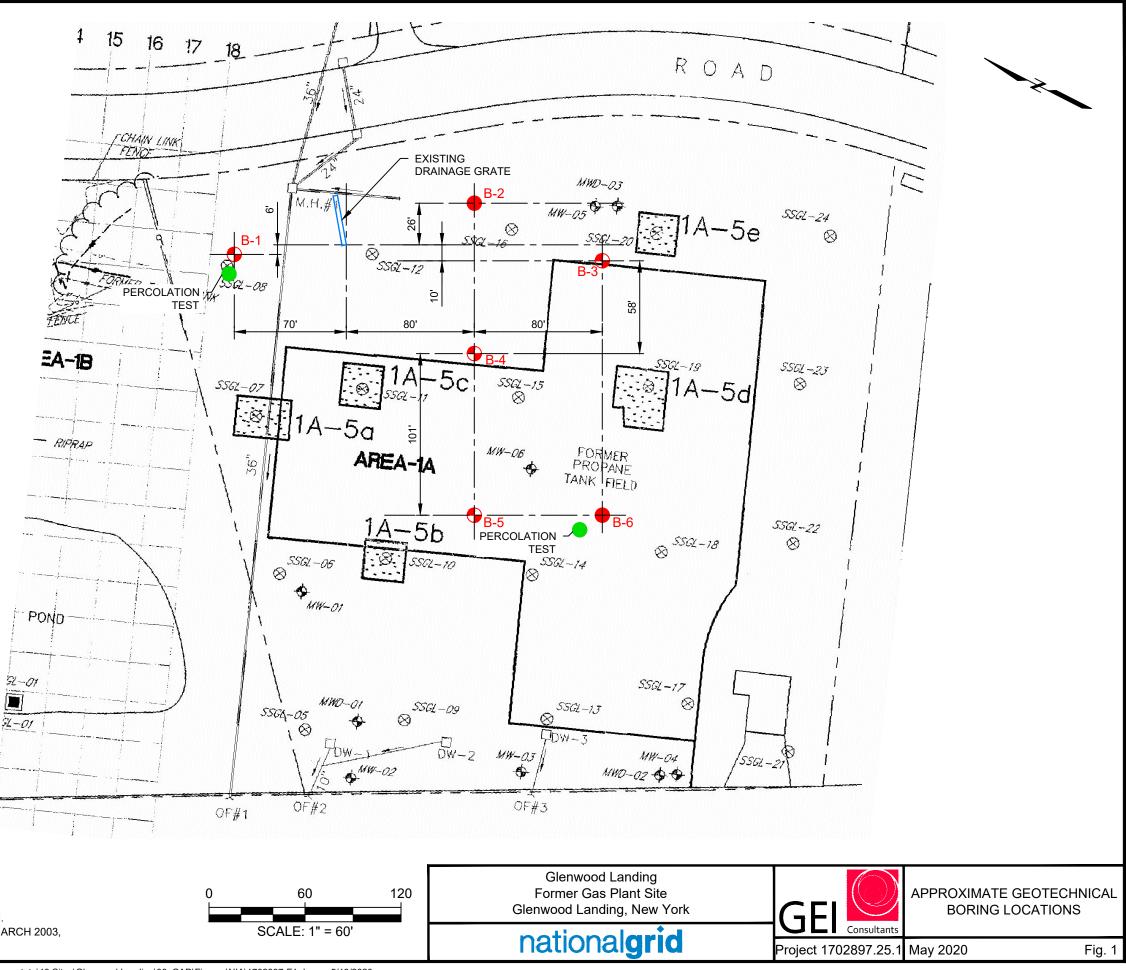
cc: S. Aldridge (National Grid) J. Mitchell (National Grid) M. Quinlan (GEI)

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## SOURCE:

 PLAN BASED ON FILE PREPARED BY VHB INC. MIDDLETOWN, CONN. TITLED GLENWOOD LANDING GAS PLANT SITE-SITE PLAN DATED MARCH 2003, REV 1 DATED 8/19/03.

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## SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD, SEAFORD, NEW YORK 11783 PH: (516) 221-2333 FAX: (516) 221-0254 EMAIL: SOILMECHANICSDRAFT@EARTHLINK.NET

May 19, 2020

BL Companies 145 Pinelawn Road Suite 300 South Melville, NY 11747 Attn: Ian McPhillips, P.E., Sr. Project Mgr. Via E-Mail: Imcphillips@Blcompanies.com Re: National Grid Geotech Investigations Glenwood Landing, NY Our Job #20-111

Gentlemen:

Forwarded herewith are the logs for six (6) borings drilled recently at the above referenced location. Our drawings also illustrate the set-up and results of two (2) infiltration tests. Our investigation consisted of the drilling of six (6) test borings, two (2) borings to a depth of 50 feet each and four (4) borings to a depth of 30 feet each, at locations shown on our Boring Location Plan. Each infiltration was performed within approximately 5 feet of its companion boring. All of the borehole locations were soft dug to approximately 5 feet to investigate for the presence of any unknown underground services or utilities and avoid damage to same. Upon completion of each boring, the borehole was backfilled with drill cuttings (spoils). All fieldwork was performed in the presence of our environmental field professional who was equipped with an aerosol dust monitor, combustible gas meter and photoionization detector.

The drilling was accomplished with truck mounted drill rigs and hollow stem auger casing. Sample recovery was achieved using a CME automatic SPT trip hammer and a standard 2 inch split spoon sampler following the Standard Penetration Test procedures, ASTM D-1586. The number of blows required to advance the sampler each 6 inch increment were recorded and are shown on our boring logs, along with a written description of the recovered soil sample per our geologist's visual identification of same in accordance with the Unified Soils Classification System. The CME automatic hammer operates with an efficiency of approximately 90%. The original conventional use of rope, cathead and drop weight to conduct the standard penetration test, on the other hand, operates with an efficiency of approximately 60%. As a consequence, the standard penetration test results obtained using the CME auto SPT hammer are on the order of two thirds the value that would have been obtained had the original rope and cathead method been used. This is significant if you are using design charts for soil strength parameters based on historical data associated with the rope and cathead method. If so, you should adjust our data accordingly.



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BL Companies Attn: Ian McPhillips, P.E., Sr. Project Mgr.

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Our boring investigation revealed that the areas drilled were blanketed by from 7 to 16 feet of moderately dense to loose soil fill consisting principally of sand, silt and gravel along with small amounts of brick, wood, concrete and other miscellaneous materials. These upper materials are generally underlain by a moderately dense to dense sand formation with varying amounts of silt and occasional layers of moderately stiff silts or clays.

Ground water, which may be under tidal influence, was encountered at depths ranging from 3'-5" to 6'-8" below existing grade at the time the work was done. An infiltration test was performed approximately 5 feet away from each of Borings B-1 and B-6 following the procedure described in Appendix D of the New York State Stormwater Management Design Manual. The test results provide a mean coefficient of permeability of the soil at the tip of the pipe casing through which the test is performed. The test value is given in cm/sec.

The soil profiles generated by this report best fit that of Site Class "D" per NYC and NYS Building Codes Table 1613.5.2.

The low standard penetration test results of the upper soils along with the high water table indicate that they are liquefiable. Supplemental soils lab data can be found appended to this report.

Based on the results of this investigation, we recommend that any significant structure to be constructed at this site be founded on deep foundation elements, i.e. piles, installed through the upper unsuitable fill and soft organic soils into the underlying more competent material. Consideration must be given to potential drag down or negative skin friction forces that affect the pile's "net" capacity.

Soil samples recovered during drilling operations will be stored in our lab for a period of 30 days after which they will be destroyed. During this period we will deliver these samples to any prescribed location upon request.

If after you examine the enclosed you have any further questions, please feel free to call and discuss them with us.

Billing is enclosed.

Very truly yours,

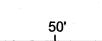
SOIL MECHANICS DRILLING CORP.

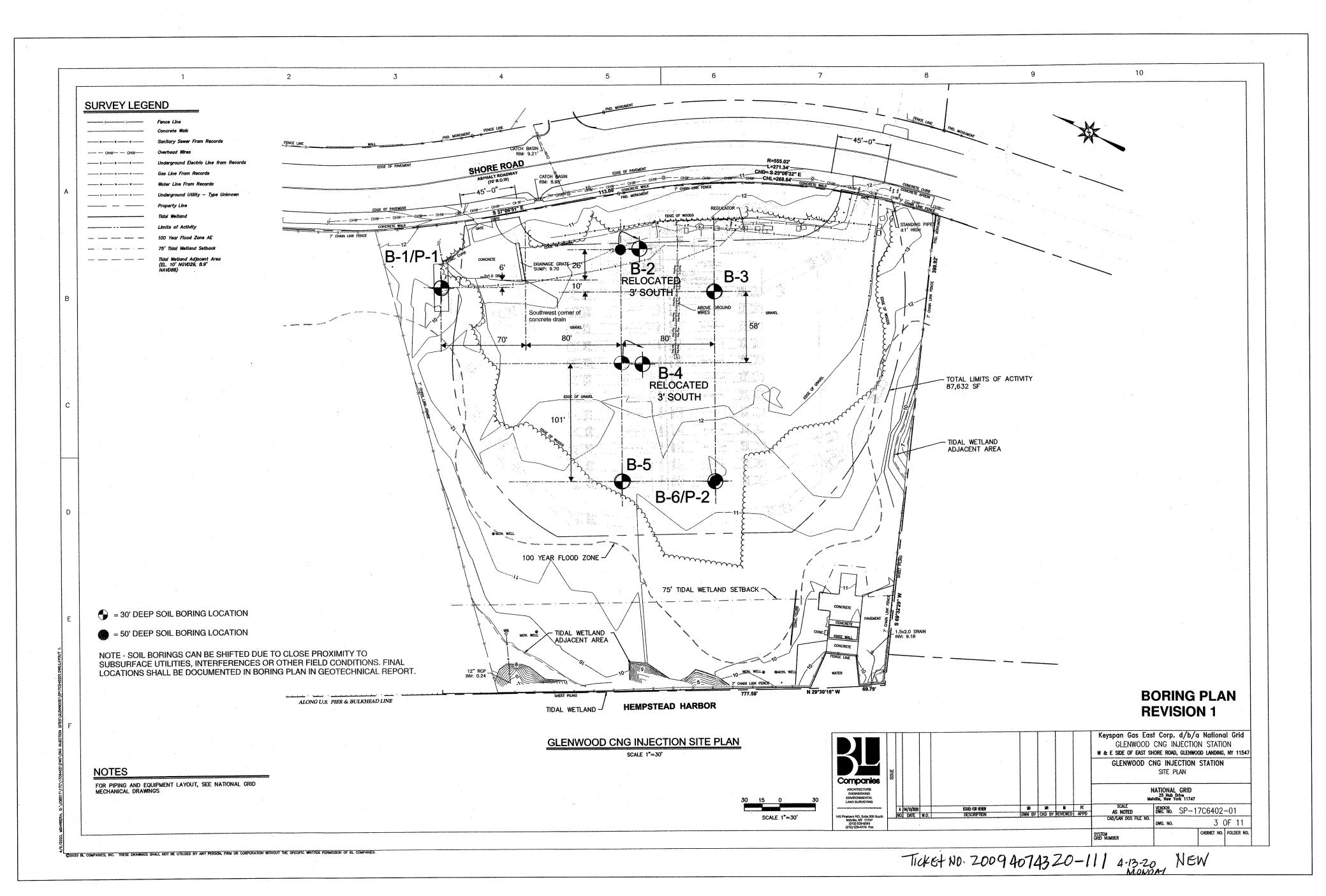
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Vincent Nantista Vice President

VN:sbg Attachments



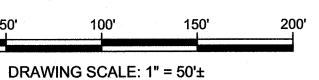




## NOTES

- 2. SOIL DESCRIPTIONS ARE IN ACCORD WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.
- 4. SOIL STRATIFICATIONS ARE ACCURATE TO WITHIN TWO FEET VERTICALLY.
- 6. SOIL TEST BORING GROUND SURFACE STAKE-OUT AND ELEVATIONS BY OTHERS.
- 7. SOIL TEST BORINGS DRILLED IN ACCORD WITH THE NEW YORK CITY BUILDING CODE.

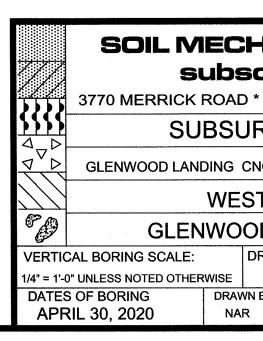




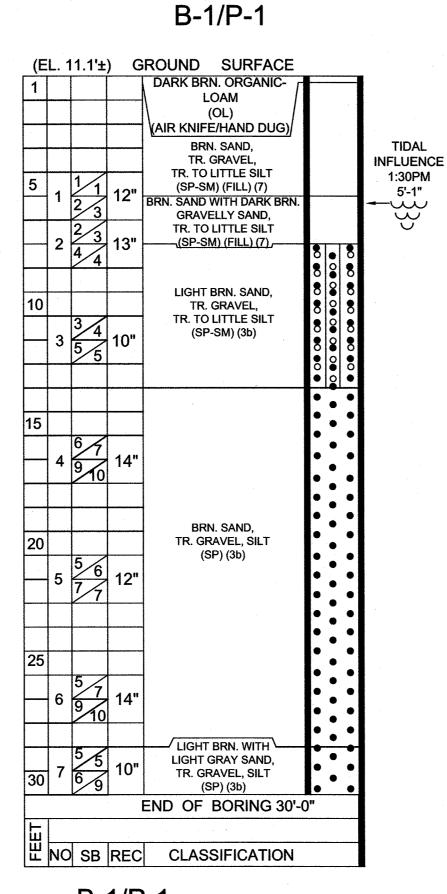
1. SOIL DESCRIPTIONS ARE BY VISUAL EXAMINATION OF SOIL SAMPLES RECOVERED DURING DRILLING OPERATIONS.

3. GROUND WATER TABLE WAS MEASURED INSIDE THE DRILL CASING AT THE COMPLETION OF EACH BOREHOLE.

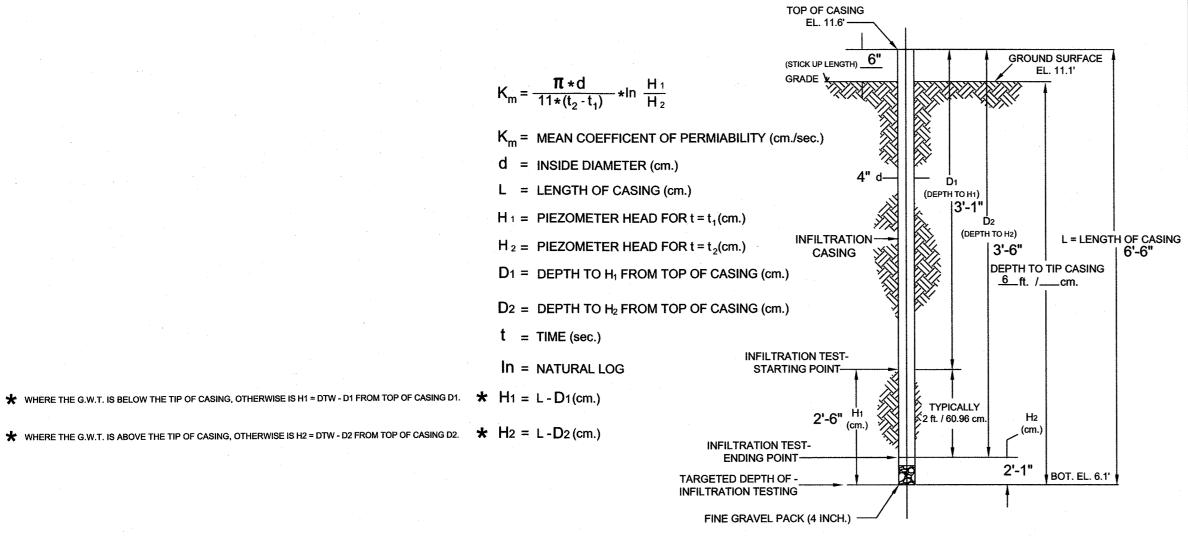
5. SOIL SAMPLES WERE OBTAINED USING A CENTRAL MINE EQUIPMENT (CME) AUTOMATIC TRIP HAMMER.



T	UNIFIE	D SOIL	CLA	SSIFICATION		
SOIL GROUPS			·····	AND SOIL SYMB		
1a Thru 1d		В	EDR	ОСК		
GW	WELL GRA	DED GRAVELS, GF	RAVEL	SAND MIXTURES, LITTL	E OR NO FINES	
GP	POORLY G		OR GF	RAVEL SAND MIXTURES	•	
GM		VELS, GRAVEL - S	AND -	SILT MIXTURE		
GC	CLAYEY G	RAVELS, GRAVEL -	- SANL	) - CLAY MIXTURE		
SW	WELL GRA	DED SANDS, GRAV	VELLY	SANDS, LITTLE OR NO	FINES	
SP	POORLY G	GRADED SANDS OF	R GRAV	VELLY SANDS, LITTLE O	R NO FINES	•••
SM	SII TY SAN	IDS, SAND - SILT M	IXTUR	ES		000
			·····			0 0
SC		ANDS, SAND - CLA	YIVIIX	IURES		
ML		•		DS, CLAYEY SILTS, SLIC		
CL	INORGANIC	CLAYS OF LOW TO SANDY CLAYS		DIUM PLASTICITY, GRAV Y CLAYS	ELLY CLAYS	
OL	ORGANIC			TY CLAYS OF LOW PLAS	STICITY	
MH				R DIATOMACEOUS FINE	SANDY OR	
		LS, ELASTIC SILTS				
CH	INORGANI	IC CLAYS OF HIGH	PLAS	TICITY, FAT CLAYS		
OH	ORGANIC	CLAYS OF MEDIUN	и то н	IIGH PLASTICITY, ORGA	NIC SILTS	
Pt	PEAT AND	OTHER HIGHLY O	RGAN	IC SOILS		
ALLOWABLE	SOIL BEA	RING PRESSL	JRES	, N.Y.C. BLDG. CC	DE TABLE 1804	4.1
	MATERIALS		N	MAXIMUM ALLOWABLE	MAXIMUM ALLOWA	BLE
(Notes	1 and 3) ★		FC	OUNDATION PRESSURE (TSF)	FOUNDATION PRES: (kPa)	
1. BEDROCK (NOTES 2 and 1a HARD SOUND ROO	d 7) ★ CK - GNEISS, DI	IABASE, SCHIST		60	5,746	
1b MEDIUM HARD RO 1c INTERMEDIATE RO				40 20	3,830 1,915	
1d SOFT ROCK - WEA				8	766	
2a DENSE 2b MEDIUM		TES 5, 4, 0, and 5) 🛪		10 6	958 575	
3. GRANULAR SOILS (GC,	GM, SW, SP, SM,	& SC)(NOTES 4, 5, 8, and	d 9)			
3a DENSE 3b MEDIUM			*	6 3	575 287	
4. CLAYS (SC, CL, & CH)(N 4a HARD	OTES 4, 6, 8, and	9)		5	479	
4b STIFF 4c MEDIUM				3	287 192	
	ML & MH)(NOTES 4	4, 8, and 9) ★		2	007	
				3 1.5	287 144	
5. SILTS & SILTY SOILS (W 5a DENSE 5b MEDIUM				1.5		
5a DENSE				SEE 1804.2.1 *	SEE 1804.2.1	*
5a DENSE 5b MEDIUM 6. ORGANIC SILTS, ORGA	ILS, & VARVED SI	LTS			······	
5a DENSE 5b MEDIUM 6. ORGANIC SILTS, ORGA LOOSE GRANULAR SO 7. CONTROLLED & UNCO <b>* REFER TO SECTION 1</b>	NILS, & VARVED SI NTROLLED FILLS 804.2 OR NOTES	LTS S FOLLOWING TABLE		SEE 1804.2.1 <b>*</b> SEE 1804.2.2 OR 1804.2.3 <b>*</b> IN THE N.Y.C. BLDG. CODE F	SEE 1804.2.1 SEE 1804.2.2 OR 1804 OR ADDITIONAL INFORM	1.2.3 ★
5a DENSE 5b MEDIUM 6. ORGANIC SILTS, ORGA LOOSE GRANULAR SOU 7. CONTROLLED & UNCOU * REFER TO SECTION 18 COMP	NILS, & VARVED SI INTROLLED FILLS 804.2 OR NOTES PACTION F	LTS 5 FOLLOWING TABLE RELATED TO S		SEE 1804.2.1 <b>*</b> SEE 1804.2.2 OR 1804.2.3 <b>*</b> IN THE N.Y.C. BLDG. CODE F ON BLOWS PER F	SEE 1804.2.1 SEE 1804.2.2 OR 1804 OR ADDITIONAL INFORM	1.2.3 ★
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B-1/P-1



# JOB NO. 20-111 LOCATION: GLENWOOD LANDING DATE: APRIL 30, 2020

	B	1/P-1 FALL						
	-0	H1	2'-6"	<u>сло</u> ft.	X.XX	<u>m.</u>		cm.
		H2	2'-1"	ît ft.		·····		
	TIME (N	IIN. & SEC.)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
RUN No.	START (T1)		E	ELAPS	ED			
NO. 1	1:20PM	2:20PM	60 MIN	IUTES	0 SECO	NDS	· · · · · · · · · · · · · · · · · · ·	WATER DRAINED 5"
NO. 2				. <u></u>			· · · · · · · · · · · · · · · · · · ·	
NO. 3							-	
NO. 4				<b></b>				
A	VERAGE ELA	PSE: WATER DR	AINED 5	" IN 60	MINUTE	S		
		· · · ·	I.D. C	F CAS	ING(D) 4	IN. 1	10.16 CM.	
	·	ELE	VATION	AT B	OTTOM C	OF CA	ASING 6 FT	. М.
			K <sub>m</sub> :	= <b>1</b> 11 *	<b>T</b> * d (t <sub>2</sub> - t <sub>1</sub> )	- * 1n	$\frac{H_1}{H_2}$	
ALL UNIT K <sub>m</sub> = MEA	S IN CM. AND AN COEFFICIE	SECONDS	BILITY (C	CM/SE	C)=1.	47x′	10 <sup>-4</sup>	

Z: 20RDWGS/20R111.6

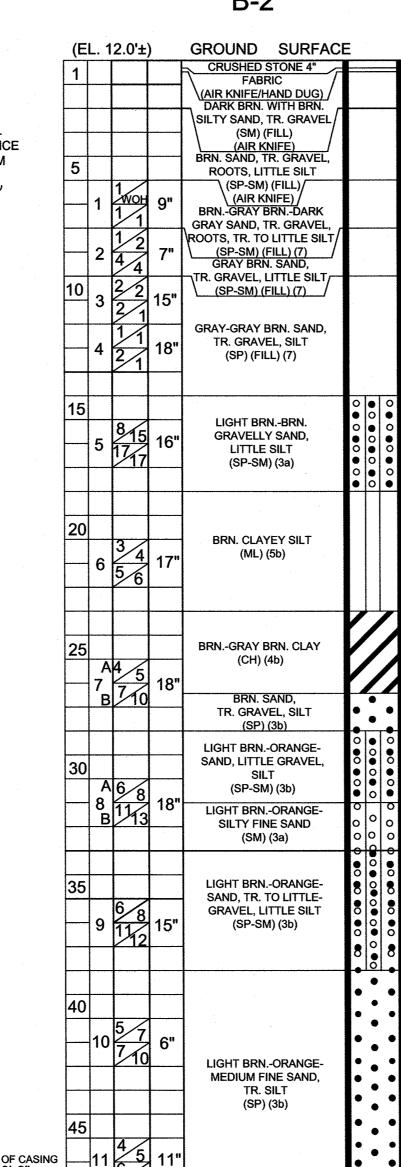
**B-2** 

TIDAL

INFLUENCE

8:00AM

3'-5" 



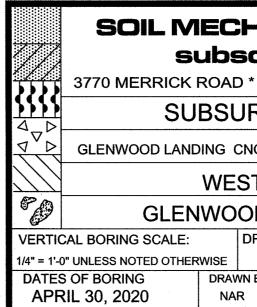
1		.4'±)		CRUSHED STONE 4"				
-				FABRIC (AIR KNIFE/HAND DUG)				
				BRN. SAND, TR. GRAVEL				TIDAL
				TROLITTLE SILT				INFLUENC
				(SP-SM) (FILL) (AIR KNIFE)				11:40AM 4'-2"
5		5 5		LIGHT BRNBRN. SAND,		<del></del>		
-	1	12 /	14"	TR. GRAVEL,				$\widetilde{\mathbf{U}}$
		2		(SP-SM) (FILL)				
	2	$\frac{2}{3}$	12"	(AIR KNIFE)				
	2	4 6	1	GRAY-GRAY BRN. SILTY SAND WITH GRAY BRNBRN.				
				SAND, TR. GRAVEL,				
10				(SM) (FILL) (7)				
	3	$\frac{1}{1}$	0"	NO RECOVERY				
	3	1/1	U	HO RECOVER				
		1		BRN. SAND,				
	4	$\frac{1}{2}$	4"	LITTLE GRAVEL,				
		2⁄4		TR. TO LITTLE SILT (SP-SM) (FILL?)				
15				(JF-JW) (FILL ! )				
	_	56		BRN. SILTY FINE SAND,	0	0	0	
	5	5 7	12"	TR. THIN SILT LENSES	0	0	0	
				(SM) (3b)	0	0	0	
					•		0	
					•	ŏ	•	
20				LIGHT BRNORANGE-	000	9	0	
		8		SAND, LITTLE GRAVEL,		2	8	
	6	11	12"	SILT (SP-SM) (3b)	0 0 0	0	0	
		/14		(01 0) (0.2)	•	8	•	
					ĕ	0	•	
						•	•	
25				BRN. SAND.	•	•	•	
		6 4		TR. GRAVEL, SILT		٠	•	
	7		12"	(SP) (3b)		٠		
		9/11	12		•	•	•	
					•	٠	٠	
					0	•	0	
20				BRNLIGHT BRN. SAND,	•	8	•	
30	<u> </u>			TR. GRAVEL, LITTLE SILT	•	0	$ \check{\bullet} $	
		69	13"	(SP-SM) (3b)	•	0	0	
	8	12/16	10		0	ě	0	
	L	V 10		END OF BORING 32'-(	)"	10	-	
<b> </b>					-			
FEET								
Ē	NC	SB	REC	CLASSIFICATION				

66LIGHT BRN.-ORANGE-<br/>SAND, TR. GRAVEL, SILT<br/>(SP) (3b)

₩ NO SB REC CLASSIFICATION

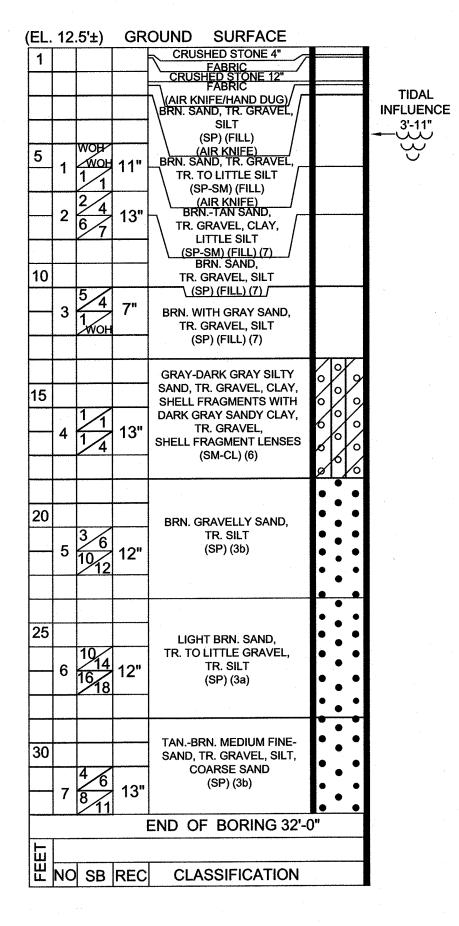
END OF BORING 50'-0"

• •



**B-3** 

<b>I</b>							
SOIL GROUPS	UNIFI	ED SOIL (	· · · · · · · · · · · · · · · · · · ·	ASSIFICATIC AND SOIL SYM		<u></u>	<u></u>
1a Thru 1d	<u></u>				BOLS		
GW	WELLGE	ADED GRAVELS, GRA					•~₁√c
	POORLY	GRADED GRAVELS O		-			
GP		R NO FINES					▲ 0 ▲ 0
GM	SILTY GF	RAVELS, GRAVEL - SA	ND -	SILT MIXTURE		·	
GC	CLAYEY	GRAVELS, GRAVEL - S	SAND	D - CLAY MIXTURE			
SW	WELL GF	RADED SANDS, GRAVI	ELLY	SANDS, LITTLE OR N	O FINES		
SP	POORLY	GRADED SANDS OR	GRA	VELLY SANDS, LITTLE	OR NO F	FINES	
SM	SILTY SA	NDS, SAND - SILT MI	XTUR	ES		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00
SC		SANDS, SAND - CLAY	′ MIXT	TURES			
ML		NIC SILTS, VERY FINE		-			
CL		SANDY CLAYS,					
OL		C SILTS AND ORGANIC					
MH		NIC SILTS, MICACEOU DILS, ELASTIC SILTS	JS OF	R DIATOMACEOUS FIN	IE SAND	YOR	
СН	INORGA	NIC CLAYS OF HIGH P	PLAST	FICITY, FAT CLAYS			
ОН	ORGANI	C CLAYS OF MEDIUM	тон	IIGH PLASTICITY, ORG	SANIC SIL	LTS	
Pt		D OTHER HIGHLY OR		······		<u></u>	
		ARING PRESSUR					<u></u> )4_1
CLASS OF M			M	AXIMUM ALLOWABLE	MAXI	MUM ALLOW	ABLE
(Notes 1 a	and 3) 🗶		FO	UNDATION PRESSUR (TSF)		DATION PRES (kPa)	SURE
1. BEDROCK (NOTES 2 and 7) 1a HARD SOUND ROCK	- GNEISS, I			60		5,746	
1b MEDIUM HARD ROCI	K - SHALE,	SANDSTONE		40 20		3,830 1,915	
1d SOFT ROCK - WEAT				8		766	
2a DENSE 2b MEDIUM				10 6		958 575	
3. GRANULAR SOILS (GC, GM 3a DENSE	M, SW, SP, SN	1, & SC)(NOTES 4, 5, 8, and 9	9) <b>*</b>	6		575	
3b MEDIUM	<b>FO 4 6 9</b>	40)		3		287	
<ol> <li>CLAYS (SC, CL, &amp; CH)(NOT 4a HARD 4b STIFF</li> </ol>	∟ວ 4, ຫ, ୪, an	u 9)		5 3		479 287	
4c MEDIUM	A 141 5 -			2	_	192	
5. SILTS & SILTY SOILS (ML) 5a DENSE	& MH)(NOTES	5 4, 8, and 9) 🛣		3		287	
5b MEDIUM 6. ORGANIC SILTS, ORGANIC				1.5 SEE 1804.2.1 <b>*</b>	· .	144 SEE 1804.2.1	*
LOOSE GRANULAR SOILS 7. CONTROLLED & UNCONT				SEE 1804.2.2 OR 1804.2.3	k SEE	1804.2.2 OR 180	
* REFER TO SECTION 1804	4.2 OR NOTE	ES FOLLOWING TABLE 18	 804.1 I	N THE N.Y.C. BLDG. COD	E FOR ADD	DITIONAL INFOR	RMATION
		RELATED TO S	POC			- ·	
LOOSE	ND & S	ILT LESS THAN 10		SOFT		4 OR LESS	
MEDIUM		10 TO 30		MEDIUM	GREA	ATER THAN	
DENSE	G	REATER THAN 31		HARD	GR	REATER TH	AN 30
" N "		DARD PENETRA					@ 30" FAL
M=17 BLOWS	SPOON E	BLOW COUNT IS GE	INER	RALLY SHOWN IN 6"	INCREM	IENTS FOR	2' DRIVI
PER FOOT	1	BTAIN BLOWS PER I					
	.L		100	T (N) USE THE 2ND	& 3RD 6	" INCREME	NI
SIZES, INCHE		ROTARY CASIN	r	T (N) USE THE 2ND EXTRA HEAVY CA		" INCREME	
	S	ROTARY CASIN	r	· · · · · · · · · · · · · · · · · · ·			
HAMMER WEIGHT,	POUNDS	2.5	r	· · · · · · · · · · · · · · · · · · ·		SAMPLE S 2.0 140	
HAMMER FALL, IN	POUNDS ICHES	2.5	G	EXTRA HEAVY CA	SING	SAMPLE S 2.0 140 30	
HAMMER FALL, IN CB - CASING BLO SB - SPOON BLO	POUNDS ICHES WSPER 1 WS PER 6	2.5 FOOT DRIVE UI	G D - 1 O - 1	EXTRA HEAVY CAS UNDISTURBED SOI SAMPLE NUMBER	SING	SAMPLE S 2.0 140 30 E	POON
HAMMER FALL, IN CB - CASING BLO SB - SPOON BLO P - PUSHED BY V	POUNDS ICHES WSPER ( WS PER ( WEIGHT (	2.5 FOOT DRIVE UI NOT DRIVE NO NOT DRIVE NO DF HAMMER FE W	IG D - I O - S EET /OH	EXTRA HEAVY CAS UNDISTURBED SOI SAMPLE NUMBER - DEPTH FROM GN - WEIGHT OF HAM	SING 	SAMPLE S 2.0 140 30 E NOTED AT	POON
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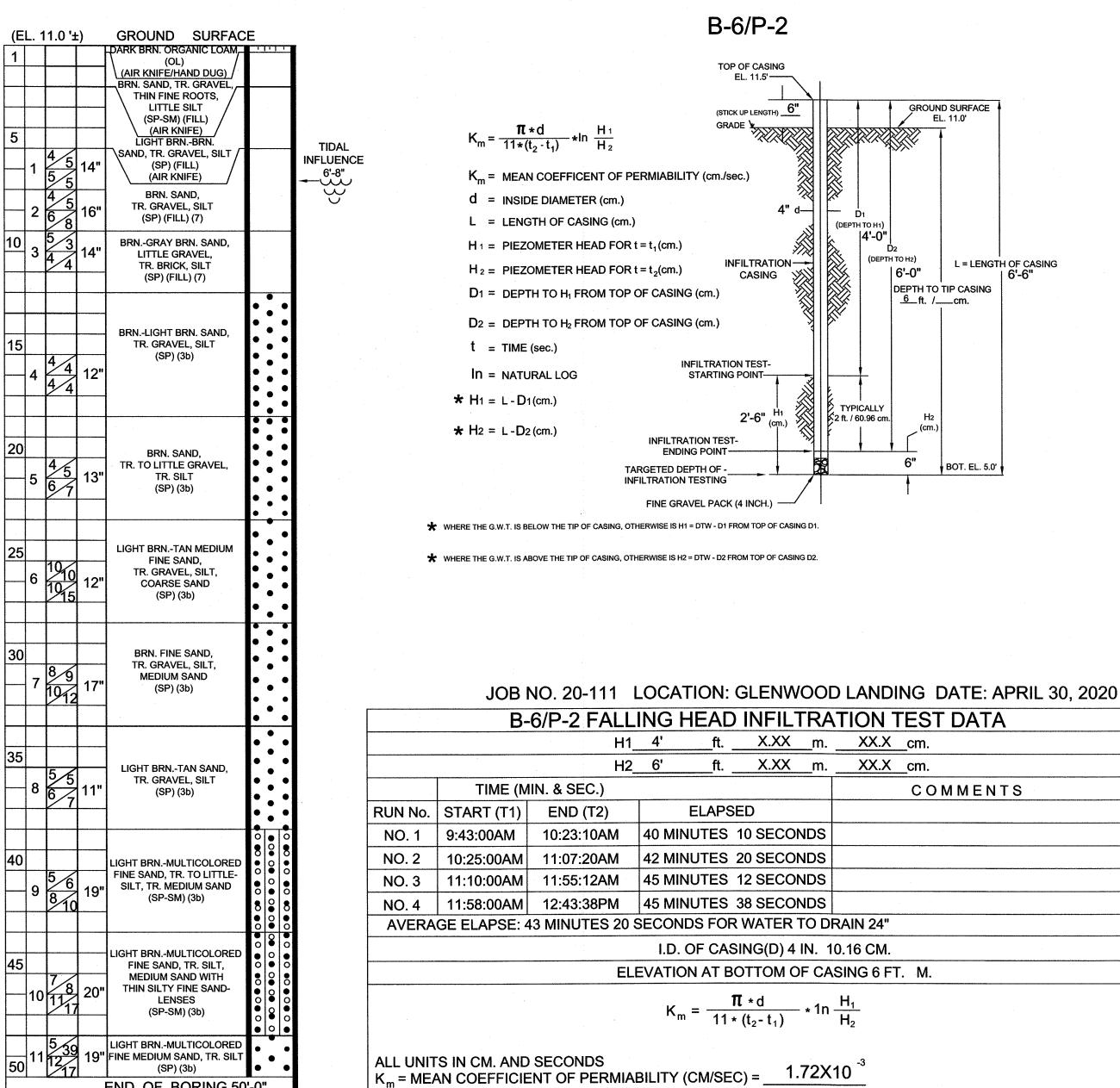
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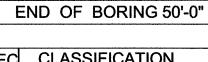
		.5 ±)		OUND SURFACE		F
1				DARK BRN. ORGANIC LOAM		
				(AIR KNIFE/HAND DUG)		
		~		· · · · · · · · · · · · · · · · · · ·		
				BRN. SAND, TR. GRAVEL,		
				LITTLE SILT (SP-SM) (FILL)		
-				(AIR KNIFE)		
5				-		
		1/1		BRN. SAND, TR. GRAVEL,		
	1	$\frac{1}{1}$	14"	TR. TO LITTLE SILT		TIDAL
		2		(SP-SM) (FILL) (7)		INFLUEN
	_	2/2		BRN. SAND, TR. GRAVEL,		8'-0"
	2	100/2	<b>"10</b> "			
		Ž-		(SP) (FILL) (7)	·	$\Im$
10						
		11		BRN. SILTY SAND,		
	3	14	20"	TR. GRAVEL, CLAY, WOOD		
	Ŭ	22/31		(SM) (FILL) (7)		
				******		
15				WOOD		
	^	9/		(FILL) (7)		
	4	<b>9</b>	12"			
	B B	7/12	12	BRN. SAND,		
	<u> </u>	<u> </u>		TR. GRAVEL, SILT	• •	
				(SP) (3b)	• •	
					•	
20					•••	
20		10		BRN. SAND,	•••	
	E	10/11		TR. GRAVEL, SILT (SP) (3a)	• •	
	5	12/-	12"		•	
		15			•	
					•••	
					• • •	
25					• •	
20				BRN. SAND,		
		10	4.011	TR. GRAVEL, SILT	• •	
	6	112	16"	(SP) (3b)	• • •	
		/12			• _ •	
		10/		BRNLIGHT GRAY BRN.		
	7	<u>/1</u>	19"	SAND, TR. GRAVEL, SILT	• •	
30	· ·	16		(SP) (3a)	• •	
i				END OF BORING 30'-(	)"	
<u> </u>					-	

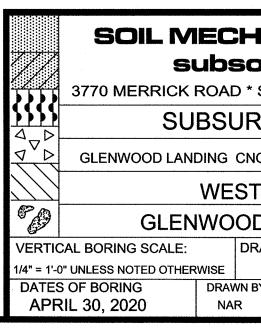
(EL. 11.0 '±) 15 3 14", \*4 15 20 13" 30 35 40 9 8 10 19" 45 ₩ NO SB REC CLASSIFICATION

INFLUENCE

B-6/P-2



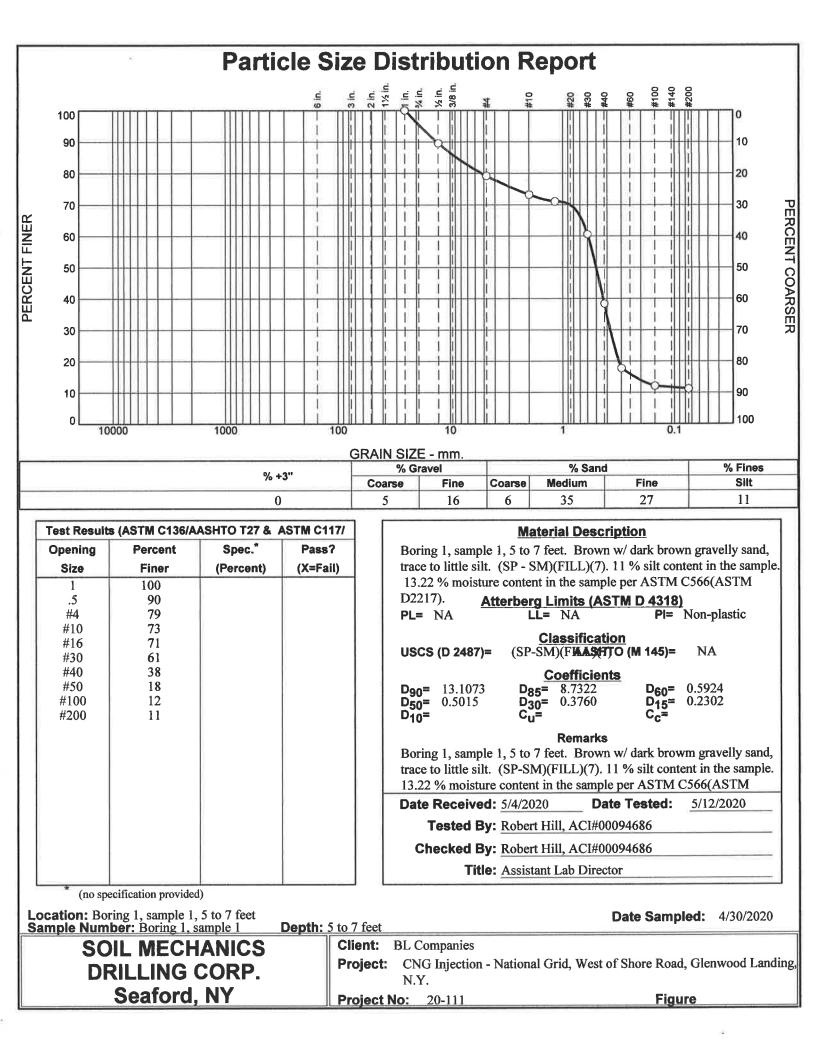




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	SOIL GROUPS	UINII			ASSIFICATION AND SOIL SYN	· · · · · · · · · · · · · · · · · · ·	S	
	1a Thru 1d	······		BEDF	ROCK			$\searrow$
	GW	WELL GF	RADED GRAVELS, G	RAVEI	SAND MIXTURES, L	ITTLE (	OR NO FINES	
	GP		GRADED GRAVELS	OR G	RAVEL SAND MIXTU	RES.		
	GM	SILTY G	RAVELS, GRAVEL - S	SAND -	SILT MIXTURE		······································	
	GC	CLAYEY	GRAVELS, GRAVEL	- SAN	D - CLAY MIXTURE			
	SW	WELL GF	RADED SANDS, GRA	VELLY	SANDS, LITTLE OR	NO FIN	ES	0 0
	SP	POORLY	GRADED SANDS O	R GRA	VELLY SANDS, LITTL	E OR N	O FINES	
	SM	SILTY SA	ANDS, SAND - SILT N	<b>/IXTUF</b>	RES			
	SC	·	SANDS, SAND - CLA					
	 				NDS, CLAYEY SILTS,	SLIGHT	PLASTICITY	
			 		DIUM PLASTICITY, GI			
	OL	OPCANI	SANDY CLAY		TY CLAYS			
	·····				R DIATOMACEOUS F		-	
	MH		DILS, ELASTIC SILTS					
-	CH			- <del>.</del>	- 			
	OH			· · · · · · · · · · · · · · · · · · ·	HIGH PLASTICITY, OF	KGANIC	51L15	
					S, N.Y.C. BLDG.			
	CLASS OF M			1	MAXIMUM ALLOWABL	E M	AXIMUM ALLOW	ABLE
	(Notes 1	and 3) ★			OUNDATION PRESSU		(kPa)	SSURE
	1. BEDROCK (NOTES 2 and 7 1a HARD SOUND ROCH 1b MEDIUM HARD ROC 1c INTERMEDIATE ROC 1d SOFT ROCK - WEAT	K - GNEISS, K - MARBLE CK - SHALE,	E, SERPENTINE SANDSTONE		60 40 20 8		5,746 3,830 1,915 766	
	2. SANDY GRAVEL & GRAVE 2a DENSE 2b MEDIUM	EL (GW, GP) (1	NOTES 3, 4, 8, and 9) ★		10 6		958 575	
	3. GRANULAR SOILS (GC, G 3a DENSE 3b MEDIUM			id 9) ★	6 3		575 287	
	4. CLAYS (SC, CL, & CH)(NO 4a HARD 4b STIFF 4c MEDIUM	TES 4, 6, 8, ar	nd 9)		5 3 2		479 287 192	
	5. SILTS & SILTY SOILS (ML 5a DENSE	& MH)(NOTES	S 4, 8, and 9) ★		3		287	
	5b MEDIUM 6. ORGANIC SILTS, ORGAN				1.5 SEE 1804.2.1 <b>*</b>		144 SEE 1804.2. <sup>7</sup>	1 *
	LOOSE GRANULAR SOILS							
	7. CONTROLLED & UNCONT				SEE 1804.2.2 OR 1804.2.3	*	SEE 1804.2.2 OR 18	04.2.3 ★
	7. CONTROLLED & UNCONT * REFER TO SECTION 180	ROLLED FILL	.S ES FOLLOWING TABLE		IN THE N.Y.C. BLDG. CO	DE FOR	SEE 1804.2.2 OR 18 ADDITIONAL INFO	
	7. CONTROLLED & UNCONT * REFER TO SECTION 180 COMPA	ACTION	s es following table RELATED TO			DE FOR	SEE 1804.2.2 OR 18 Additional info OT	
	7. CONTROLLED & UNCONT * REFER TO SECTION 180 COMPA SA LOOSE	ROLLED FILL	S ES FOLLOWING TABLE RELATED TO ILT LESS THAN 10		IN THE N.Y.C. BLDG. CO ON BLOWS PE SOFT	DE FOR R FO CLA	SEE 1804.2.2 OR 18 ADDITIONAL INFO OT Y 4 OR LESS	RMATION
а.,	7. CONTROLLED & UNCONT * REFER TO SECTION 180 COMPA SA LOOSE MEDIUM	AND & S	S ES FOLLOWING TABLE RELATED TO ILT LESS THAN 10 10 TO 30		IN THE N.Y.C. BLDG. CO ON BLOWS PE SOFT MEDIUM	DE FOR R FO CLA	SEE 1804.2.2 OR 18 ADDITIONAL INFO OT Y 4 OR LESS REATER THAN	<b>RMATION</b> 6 1 8 TO 30
	7. CONTROLLED & UNCONT * REFER TO SECTION 180 COMPA SA LOOSE	ADD&S	S ES FOLLOWING TABLE RELATED TO ILT LESS THAN 10 10 TO 30 REATER THAN 31	SPO	IN THE N.Y.C. BLDG. CO ON BLOWS PE SOFT MEDIUM HARD	DE FOR R FO CLA GF	SEE 1804.2.2 OR 18 ADDITIONAL INFO OT Y 4 OR LESS REATER THAN GREATER TH	RMATION S I 8 TO 30 AN 30
а.,	7. CONTROLLED & UNCONT * REFER TO SECTION 180 COMPA SA LOOSE MEDIUM DENSE " N "	ACTION AND & S G STANI	S ES FOLLOWING TABLE RELATED TO ILT LESS THAN 10 10 TO 30 REATER THAN 31 DARD PENETE		IN THE N.Y.C. BLDG. CO ON BLOWS PE SOFT MEDIUM HARD ON TEST - ASTI	R FO CLA GF	SEE 1804.2.2 OR 18 ADDITIONAL INFO OT Y 4 OR LESS REATER THAN GREATER THAN 2" SPC 1401b HAMMER	RMATION S I 8 TO 30 AN 30 OON, 2 @ 30" FALL
	7. CONTROLLED & UNCONT * REFER TO SECTION 180 COMPA SA LOOSE MEDIUM DENSE " N "	ACTION ACTION AND & S G STANI	S ES FOLLOWING TABLE RELATED TO ULT LESS THAN 10 10 TO 30 REATER THAN 31 DARD PENETF BLOW COUNT IS C		IN THE N.Y.C. BLDG. CO ON BLOWS PE SOFT MEDIUM HARD	R FO CLA GF M 158	SEE 1804.2.2 OR 18 ADDITIONAL INFO OT Y 4 OR LESS REATER THAN GREATER THAN GREATER TH 2" SPC 140Ib HAMMER REMENTS FOR	RMATION S I 8 TO 30 AN 30 OON, @ 30" FALL X 2' DRIVE
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SEAF SFA G INJE	7. CONTROLLED & UNCONT * REFER TO SECTION 180 COMPA SA LOOSE MEDIUM DENSE " N "	ROLLED FILL 4.2 OR NOT A D & S A TION A RGED FO MECHANIC TO F ROD MECHANIC TING IN PE I OF THE F A CCEPTAN S DRILLING A RGED FO MECHANIC TING IN PE I OF THE F A CCEPTAN S DRILLING A RGED FO MECHANIC TING IN PE I OF THE F A CCEPTAN S DRILLING A RGED FO MECHANIC TING IN PE I ONE, BAS I CS DRILLING A RGED FO MECHANIC TING IN PE I TO THE F A CCEPTAN S DRILLING A RGED FO MECHANIC TING IN PE I TO THE F A CCEPTAN S DRILLING A RGED FO MECHANIC TING IN PE I TO THE F A CCEPTAN S DRILLING A RGED FO MECHANIC TING IN PE I TO THE F A CCEPTAN S DRILLING A RGED FO MECHANIC THAN THE IS REPORT O MPANIE I TO SOL NEW YO D PROJEC	S ES FOLLOWING TABLE RELATED TO ILT LESS THAN 10 10 TO 30 REATER THAN 31 DARD PENETF BLOW COUNT IS G BTAIN BLOWS PEF ROTARY CASI 2.5 INCH DRIVE	SPO SATIC GENEF R FOC NG UD - NO - FEET WOH REC - ITS OF ROPER EE BEI GHER EE BEI COPER FORT. LIABIL Y CER ASED GHER EE BEI ERS OF THIS R ( )	IN THE N.Y.C. BLDG. CO ON BLOWS PE SOFT MEDIUM HARD ON TEST - ASTI RALLY SHOWN IN 6 OT (N) USE THE 2NI EXTRA HEAVY C/ EXTRA HEAVY C/ UNDISTURBED SC SAMPLE NUMBER - DEPTH FROM G - WEIGHT OF HAM SOIL RECOVERY I FICERS OR EMPLOYE TY DAMAGE OR ANY C THE RETENTION OR U ITY. IF THIS IS UNACC THE RETENTION OF LIABILI NG CHARGED FOR THIS EMPLOYEES, HAVE N EPORT WAS PREPARE DJECT: OOD LANDING CNG INJEC WEST OF S GLENWOOD LAN	ASING DE FOR R FO CLA GF CLA GF CLA GF CLA GF CLA CLA CLA CLA CLA CLA CF CLA CF CLA CF CLA CF CLA CF CLA CF CLA CF CLA CF CF CLA CF CF CF CF CF CF CF CF CF CF	SEE 1804.2.2 OR 18 ADDITIONAL INFO OT Y 4 OR LESS REATER THAN GREATER THAN GREATER THAN GREATER THAN CONT 2" SPO 2" SPO 1401 1006 HAMMER SAMPLE S 2.0 140 30 MPLE JR. NOTED AT HES PR ERRORS, OM UENTIAL DAMAG ANY PART OF TH BLE, THE CLIENT AYS FROM THE D BILITY WHICH IS MECHANICS DR IONAL GRID PROJEC ROAD NEW YORK IGATION MAY 4, 2020 ECT NO: 20R11 ING BY: NAR Y: VN	RMATION RMA
SEAF RFA GINJE OF DLA	7. CONTROLLED & UNCONT * REFER TO SECTION 180 COMPA SA LOOSE MEDIUM DENSE "N"	ROLLED FILL 4.2 OR NOT A D & S A C D & S A	S ES FOLLOWING TABLE RELATED TO ILT LESS THAN 10 10 TO 30 REATER THAN 31 DARD PENETF BLOW COUNT IS G BTAIN BLOWS PEF ROTARY CASI 2.5 INCH DRIVE DF HAMMER CS DRILLING CORP., RSONAL INJURIES, PF EE PAID FOR THIS RE ICE OF THIS LIMITED FOR THIS REPORT IS B E CLIENT FOR WHOM CORP., ITS OFFICE CLIENT FOR WHOM CORP., ITS OFFICE CLIENT FOR WHOM TAT THEIR OWN RISI ES ROAD JTH RK 11747 CORP. 516 - 221-2333	SPO SATIC GENEF R FOC NG UD - NO - FEET WOH REC - ITS OF ROPER EE BEI GHER EE BEI COPER FORT. LIABIL Y CER ASED GHER EE BEI ERS OF THIS R ( )	IN THE N.Y.C. BLDG. CO ON BLOWS PE SOFT MEDIUM HARD ON TEST - ASTI RALLY SHOWN IN 6 OT (N) USE THE 2NI EXTRA HEAVY C/ EXTRA HEAVY C/ UNDISTURBED SC SAMPLE NUMBER - DEPTH FROM G - WEIGHT OF HAM SOIL RECOVERY I FICERS OR EMPLOYE TY DAMAGE OR ANY C THE RETENTION OR U ITY. IF THIS IS UNACC THE RETENTION OF LIABILI NG CHARGED FOR THIS EMPLOYEES, HAVE N EPORT WAS PREPARE DJECT: OOD LANDING CNG INJEC WEST OF S GLENWOOD LAN	ASING DE FOR R FO CLA GF CLA GF CLA GF CLA GF CLA CLA CLA CLA CLA CLA CF CLA CF CLA CF CLA CF CLA CF CLA CF CLA CF CLA CF CF CLA CF CF CF CF CF CF CF CF CF CF	SEE 1804.2.2 OR 18 ADDITIONAL INFO OT Y 4 OR LESS REATER THAN GREATER THAN GREATER THAN GREATER THAN CONT 2" SPO 2" SPO 1401 1006 HAMMER SAMPLE S 2.0 140 30 MPLE JR. NOTED AT HES PR ERRORS, OM UENTIAL DAMAG ANY PART OF TH BLE, THE CLIENT AYS FROM THE D BILITY WHICH IS MECHANICS DR IONAL GRID PROJEC ROAD NEW YORK IGATION MAY 4, 2020 ECT NO: 20R11 ING BY: NAR Y: VN	RMATION RMA
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5/12/2020

**Client:** BL Companies Project: CNG Injection - National Grid, West of Shore Road, Glenwood Landing, N.Y. Project Number: 20-111 Location: Boring 1, sample 1, 5 to 7 feet Sample Number: Boring 1, sample 1 Depth: 5 to 7 feet Material Description: Boring 1, sample 1, 5 to 7 feet. Brown w/ dark brown gravelly sand, trace to little silt. (SP - SM)(FILL)(7). 11 % silt content in the sample. 13.22 % moisture content in the sample per ASTM C566(ASTM D2217). Sample Date: 4/30/2020 Date Received: 5/4/2020 PL: NA LL: NA **PI:** Non-plastic **AASHTO Classification: NA** USCS Classification: (SP-SM)(FILL)(7) Grain Size Test Method: ASTM C136/AASHTO T27 #200 Wash Method: ASTM C117/T11 (Method A - water used only) Testing Remarks: Boring 1, sample 1, 5 to 7 feet. Brown w/ dark browm gravelly sand, trace to little silt. (SP-SM)(FILL)(7). 11 % silt content in the sample. 13.22 % moisture content in the sample per ASTM C566(ASTM D2217). Test Date: 5/12/2020 Tested By: Robert Hill, ACI#00094686 Title: Assistant Lab Director Checked By: Robert Hill, ACI#00094686 Sieve Test Data Post #200 Wash Test Weights (grams): Dry Sample and Tare = 293.00 Tare Wt. = 0.00 Minus #200 from wash = 11.2% Cumulative Cumulative Dry Sieve Weight Sample Pan Percent Percent **Tare Weight** Retained and Tare Tare Opening Retained Size (grams) Finer (grams) (grams) (grams) 0.00 100 0 0.00 0.00 1 329.90 10 .5 34.40 90 79 21 #4 68.70 #10 88.50 73 27 #16 95.60 71 29 39 61 #30 129.90 62 #40 203.30 38

> 293.00 **Fractional Components**

271.40

290.10

#50

#100

#200

18

12

11

82

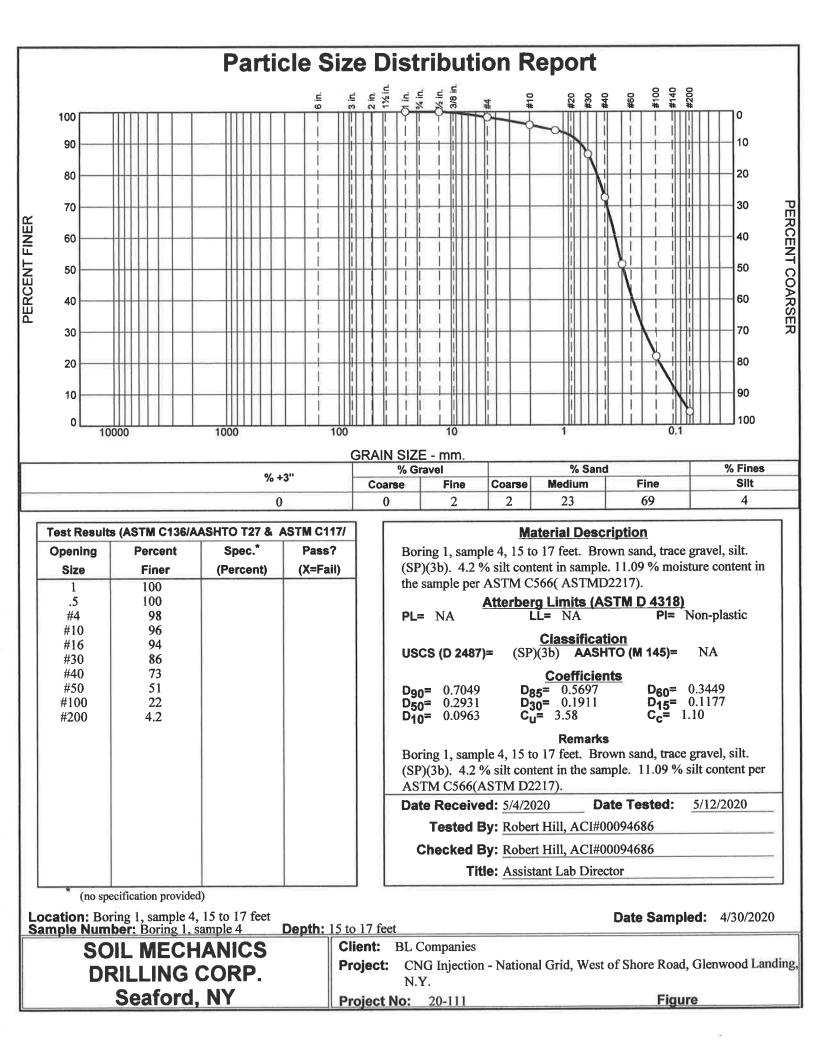
88

89

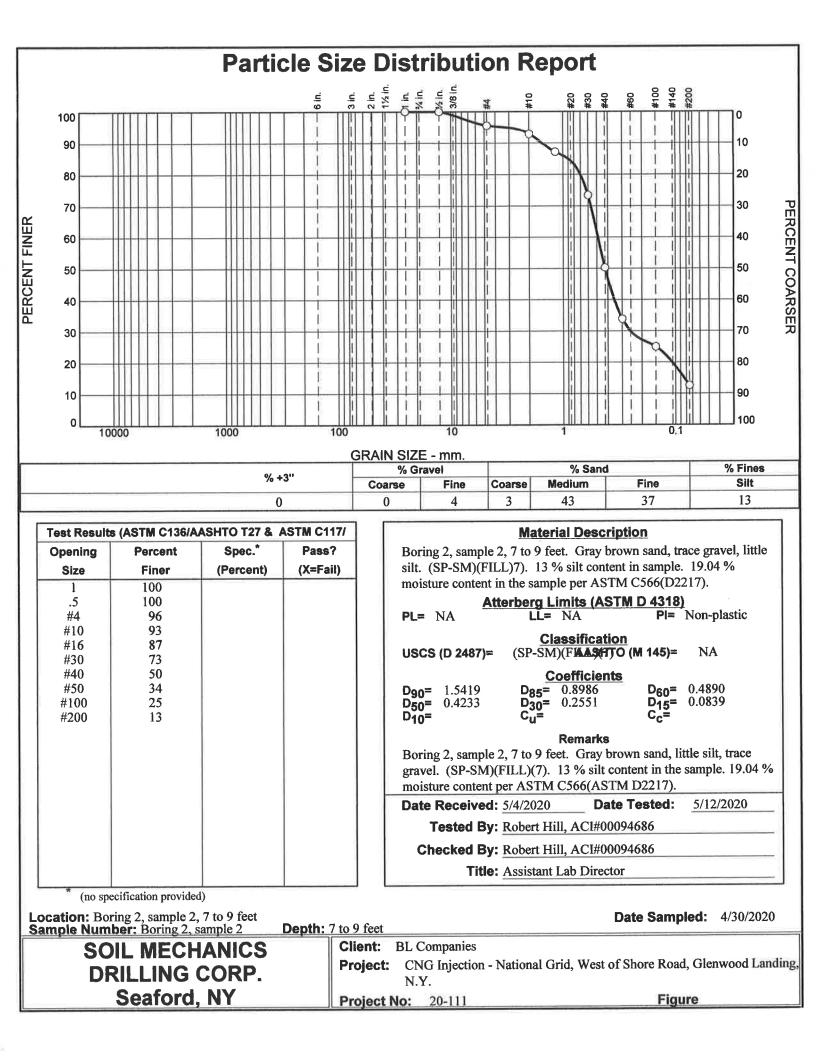
		Gravel			Sa	nd			Fines	
Cobbles	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0	5	16	21	6	35	27	68			11

D <sub>5</sub>	D <sub>10</sub>	D <sub>15</sub>	D <sub>20</sub>	D <sub>30</sub>	D40	D <sub>50</sub>	D <sub>60</sub>	D <sub>80</sub>	D85	D <sub>90</sub>	D95
		0.2302	0.3158	0.3760	0.4349	0.5015	0.5924	5.2362	8.7322	13.1073	18.4646

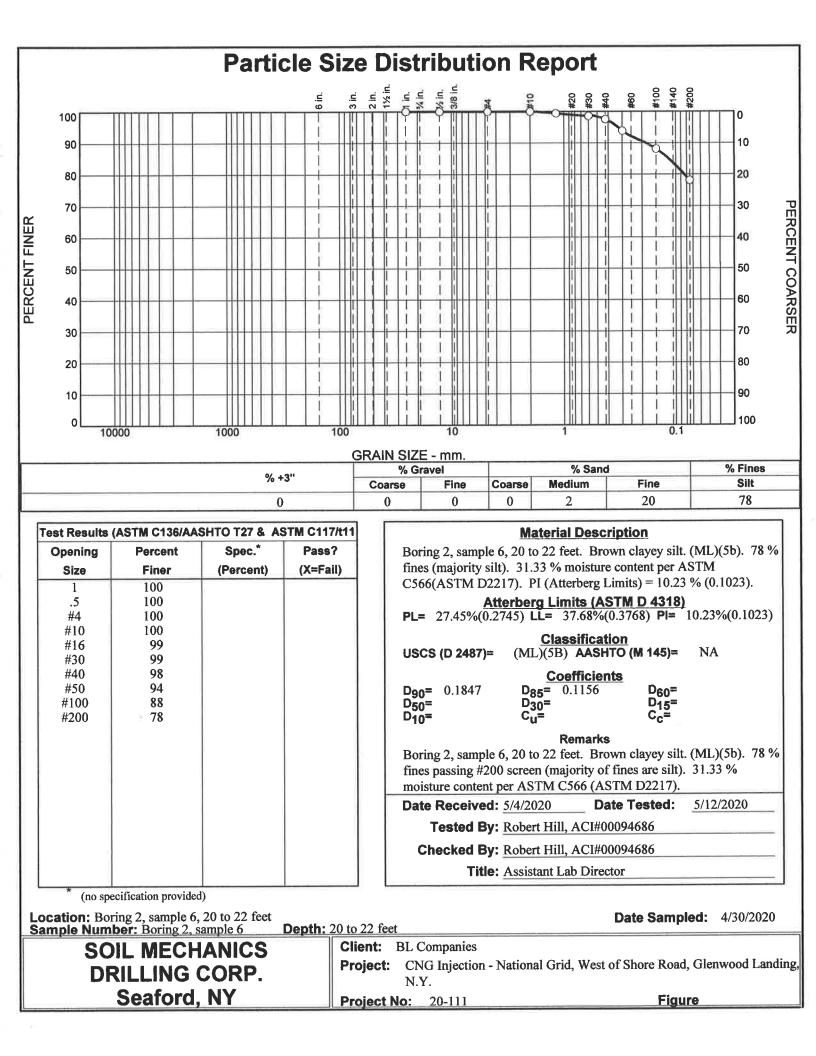
Fineness Modulus 3.04



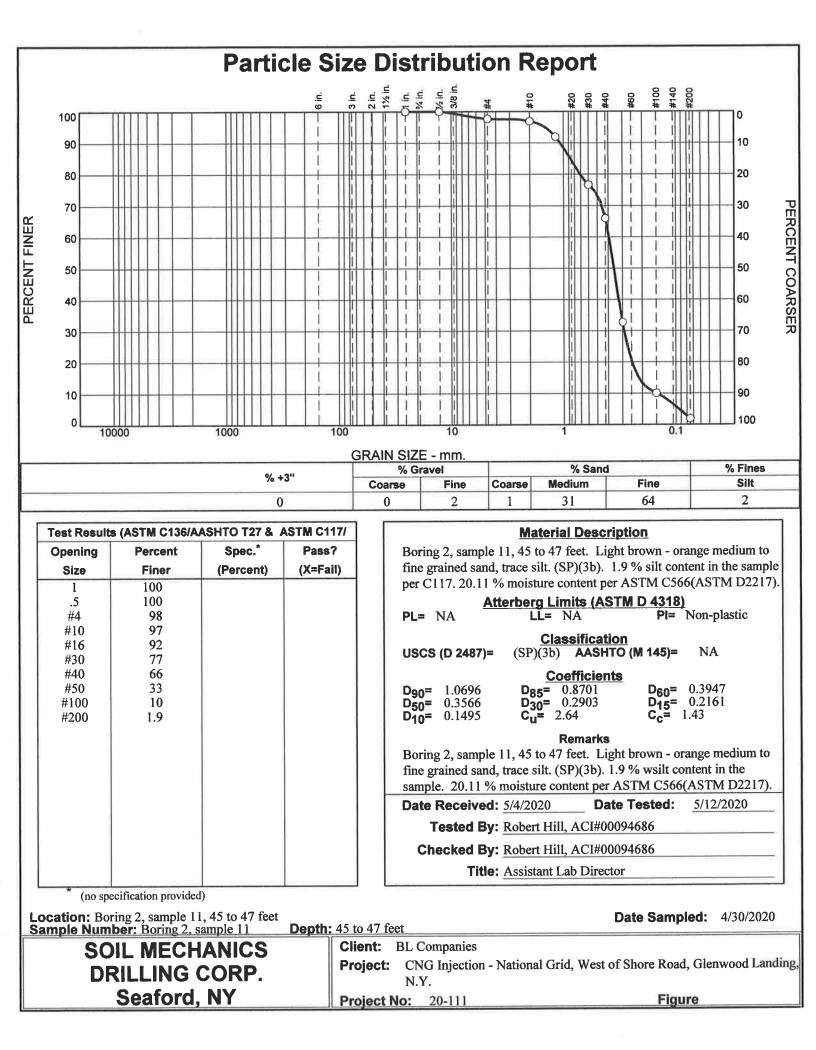
Sample 4, 15 to 17 feet           Sample Number: Boring 1, sample 4, 15 to 17 feet. Brown sand, trace gravel, silt. (SP)(3b). 4.2 % silt content in 11.09 % moisture content in the sample per ASTM C566( ASTMD2217).           ample Date: 4/30/2020           LL: NA         LL: NA         PI: Non-plastic           SGS Classification: (SP)(3b)         AASHTO Classification: NA           ratio Size feet Method: ASTM C136/AASHTO T27           200 Wash Method: ASTM C140/0094686           Test Data           Silt content per ASTM C566(ASTM D2217).           Steed By: Robert Hill, ACI#00094686         Test Data           Silt content per ASTM C200         Tare Weights (grams): pr Sample and Tare 354.20           Tare Weights (grams)         Silt Comulative           Yample and Tare 354.20           Tare Weights (grams)         Silt Cumulative					17 £+			oject Num
terial Description: Boring 1, sample 4, 15 to 17 feet. Brown sand, trace gravel, silt. (\$P)(3b). 4.2 % silt content in 11.09 % moisture content in the sample per ASTM C566( ASTMD2217). mple Date: 4/30/2020 te Received: 5/4/2020 PL: NA LL: NA Pl: Non-plastic CSC Stassification: (\$P)(3b) AASHTO Classification: NA ain Size Test Method: ASTM C136/AASHTO T27 00 Wash Method: ASTM C136/AASHTO T27 00 Wash Method: ASTM C136/AASHTO T27 00 Wash Method: ASTM C117/T11 (Method A - water used only) sting Remarks: Boring 1, sample 4, 15 to 17 feet. Brown sand, trace gravel, silt. (\$P)(3b). 4.2 % silt content in the 11.09 % silt content per ASTM C566(ASTM D2217). sted By: Robert Hill, ACI#00094686 Test Date: 5/12/2020 Title: Assistant Lab Director Sieve Test Data st #200 Wash Test Weights (grams): Dry Sample and Tare = 354.20 Tare Wt. = 0.00 Minus #200 from wash = 4.2% Dry Cumulative Cumulative Sample and Tare = 354.20 Tare Weight Opening Retained Percent Percent (grams) (grams) (grams) Size (grams) Finer Retained 369.60 0.00 0.00 1 0.00 100 0 #4 6.50 98 2 #110 15.50 96 4 #110 22.20 94 6 #330 49.90 86 14 #40 101.20 73 27 #50 179.80 51 49 #100 288.90 22 78 #200 354.20 4.2 95.8 Eractional Components	Sample Number: Boring 1 sample 4	Same			1 / Teet	npie 4, 15 to	0	
11.09 % moisture content in the sample per ASTM C566( ASTMD2217).         mple Date: 4/30/2020       PE: NA       LL: NA       PI: Non-plastic         GC Cassification: (SP)(3b)       AASHTO Classification: NA         ain Size Test Method: ASTM C136/AASHTO T27         00 Wash Method: ASTM C117/T11 (Method A - water used only)         sting Remarks: Boring 1, sample 4, 15 to 17 feet. Brown sand, trace gravel, silt. (SP)(3b). 4.2 % silt content in the 11.09 % silt content per ASTM C566(ASTM D2217).         sted By: Robert Hill, ACI#00094686         Test Data         Sieve Test Data: 5/12/2020         Tare Wit_=0.00         Minus #200 from wash = 4.2%         Dry         Sieve Test Data         Sieve Test Data         Tare Wit_=0.00         Minus #200 from wash = 4.2%         Dry         Sieve Test Data         Gamma Sieve With 10         Gamma Sieve With 10         Gamma Sieve With 10         Sieve Test Data         Part Tare With 10         Gamma Sieve With 20         Gamma Sieve With 20				to 17 feet	nle 4, 15	Boring 1. sa		•
mple Date: 4/30/2020 te Received: 5/4/2020       PL: NA       LL: NA       PI: Non-plastic         ASHTO Classification: (SP)(3b)       ASHTO Classification: NA         ASHTO Classification: (SP)(3b)       ASHTO Classification: NA         ain size Test Method: ASTM Cl36/AASHTO T27       OO Wash Method: ASTM Cl36/AASHTO T27         OO Wash Method: ASTM Cl36/AASHTO T27         OO Wash Method: ASTM Cl37/11 (Method A - water used only)         sting Remarks: Boring 1, sample 4, 15 to 17 feet. Brown sand, trace gravel, silt. (SP)(3b). 4.2 % silt content in the 11.09 % silt content per ASTM C566(ASTM D2217).         sted By: Robert Hill, ACI#00094686       Test Date: 5/12/2020         Tare Wit = 0.00       Minus #200 from wash = 4.2%         Dry Sample and Tare = 354.20         Tare Wit = 0.00       Minus #200 from wash = 4.2%         Dry Cumulative Weight (grams)       Percent Retained         Gigrams)       Percent       Percent         (grams)       Grame       Percent         (grams)       Percent       Percent         Game Sieve Weight       Percent								
Second	The second se							mple Date
ain Size Test Method: ASTM C136/AASHTO T27 D0 Wash Method: ASTM C117/T11 (Method A - water used only) sting Remarks: Boring 1, sample 4, 15 to 17 feet. Brown sand, trace gravel, silt. (SP)(3b). 4.2 % silt content in the 11.09 % silt content per ASTM C566(ASTM D2217). sted By: Robert Hill, ACI#00094686 Test Date: 5/12/2020 ecked By: Robert Hill, ACI#00094686 Title: Assistant Lab Director Sieve Test Data st #200 Wash Test Weights (grams): Dry Sample and Tare = 354.20 Tare Wt = 0.00 Minus #200 from wash = 4.2% Dry Sample and Tare Tare Tare Tare Weight (grams) Size (grams) Size (grams) (grams) (grams) Size (grams) Size (grams) Fine Testimed 369.60 0.00 0.00 1 0.00 100 0 #4 6.50 98 2 #10 15.50 96 4 #16 22.20 94 6 #30 49.90 86 14 #16 22.20 94 6 #30 49.90 86 14 #16 22.20 94 6 #30 49.90 86 14 #10 288.90 22 78 #200 354.20 4.2 95.8 Tractional Components Eractional Components	LL: NA PI: Non-plastic	LL: N			NA			-
D0 Wash Method: ASTM C117/T11 (Method A - water used only)         sting Remarks: Boring 1, sample 4, 15 to 17 feet. Brown sand, trace gravel, silt. (SP)(3b). 4.2 % silt content in the 11.09 % silt content per ASTM C566(ASTM D2217).         sted By: Robert Hill, ACI#00094686         Sieve Test Date: 5/12/2020         site ASIM C1#00094686         Sieve Test Date: 5/12/2020         Sieve Test Date: 5/12/2020         sted By: Robert Hill, ACI#00094686         Sieve Test Date: 5/12/2020         Tare Weight Ggrams): Dry Sample and Tare = 354.20         Tare Weight: Opening Retained       Percent Retained         Pare Tare Weight (grams)       Size       Cumulative (grams)       Percent Retained         369.60       0.00       0.00       1       0.00       100       0         #4       6.50       98       2       #10       15.50       96       4         #16       22.20       94       6       #30       49.90       86       14         #100 <th< td=""><td>AASHTO Classification: NA</td><td>AASI</td><td></td><td></td><td></td><td>(SP)(3b)</td><td>fication: (</td><td>CS Class</td></th<>	AASHTO Classification: NA	AASI				(SP)(3b)	fication: (	CS Class
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11.09 % silt content per ASTM C566(ASTM D2217).         sted By: Robert Hill, ACI#00094686       Test Date: 5/12/2020         silt content per ASTM C566(ASTM D2217).         set Bate: 5/12/2020         test Date: 5/12/2020         site Carest Data         Sieve Test Data         Sieve Test Data         st #200 Wash Test Weights (grams): Dry Sample and Tare = 354.20 Tare Wt. = 0.00 Minus #200 from wash = 4.2%         Dry Sample and Tare (grams)       Cumulative Pan Tare Wt. = 0.00       Percent Retained (grams)       Percent Retaine	•••	• •			•			
sted By: Robert Hill, ACI#00094686         Test Date: 5/12/2020           Title: Assistant Lab Director           Sieve Test Date           Sieve Test Date: 5/12/2020           Title: Assistant Lab Director           Sieve Test Date: 5/12/2020           Title: Assistant Lab Director           Sieve Test Date: 5/12/2020           Tare Weights (grams): Dry Sample and Tare = 354.20           Tare Wt. = 0.00           Minus #200 from wash = 4.2%           Cumulative           Pan         Sieve         Weight           Tare Weight (grams)         Sieve         Percent Retained           Tare (grams)         Sieve         Cumulative           Mediant Tare Weight         Opening         Retained         Percent         Retained           369.60         0.00         0.00         1         0.00         100         0								sting Ren
Title: Assistant Lab Director         Size Test Data         st #200 Wash Test Weights (grams): Dry Sample and Tare = 354.20 Tare Wt. = 0.00 Minus #200 from wash = 4.2%         Dry       Cumulative Pan       Cumulative Veight       Percent       Percent         (grams)       Tare Weight (grams)       Sieve Pan       Cumulative Veight       Percent       Percent         369.60       0.00       0.00       1       0.00       100       0         369.60       0.00       0.00       1       0.00       100       0         #4       6.50       98       2       #10       15.50       96       4         #10       15.50       96       4       #16       22.20       94       6         #30       49.90       86       14       #40       101.20       73       27         #50       179.80       51       49       #100       288.90       22       78         Hillo       Sand       Fine       Fines         Cobbles       Gravel       Fines         Site       Site       Site       Site			•	STM C56				
Sieve Test Data         st #200 Wash Test Weights (grams): Dry Sample and Tare = 354.20 Tare Wt = 0.00 Minus #200 from wash = 4.2%         Dry Sample and Tare (grams)       Cumulative Pan       Cumulative Sieve       Cumulative Weight       Percent Retained       Percent Retained         369.60       0.00       0.00       1       0.00       100       0         369.60       0.00       0.00       1       0.00       100       0         #44       6.50       98       2       #10       15.50       96       4         #16       22.20       94       6       4       440       101.20       73       27         #30       49.90       86       14       440       101.20       73       27         #50       179.80       51       49       4100       28.90       22       78         #200       354.20       4.2       95.8       56       14       56       149         #200       354.20       4.2       95.8       56       14       100       28.90       22       78         #200       354.20       4.2       95.8       56       14       16       16       16       16								-
st #200 Wash Test Weights (grams): Dry Sample and Tare = 354.20 Tare Wt. = 0.00 Minus #200 from wash = 4.2%         Dry Sample and Tare (grams)       Cumulative Pan       Cumulative Sieve       Percent Retained       Percent Retained         369.60       0.00       0.00       1       0.00       100       0         369.60       0.00       0.00       1       0.00       100       0         #44       6.50       98       2       #10       15.50       96       4         #16       22.20       94       6       #30       49.90       86       14         #100       128.90       22       78       #200       354.20       4.2       95.8         Eract/ Components		_			4080	III, AC1#000	Robert II	ecked by
Tare Wit, = 0.00 Minus #200 from wash = 4.2%           Dry Sample and Tare (grams)         Cumulative Pan         Cumulative Sieve (grams)         Cumulative Weight (grams)         Percent Retained         Percent Retained           369.60         0.00         0.00         1         0.00         100         0           369.60         0.00         0.00         1         0.00         100         0           369.60         0.00         0.00         1         0.00         100         0           #4         6.50         98         2         #10         15.50         96         4           #16         22.20         94         6         #30         49.90         86         14           #40         101.20         73         27         #50         179.80         51         49           #100         288.90         22         78         #200         354.20         4.2         95.8           Fract/or Sand         Fines           Cobbles         Fine         Total         Silt         Clay				nole and Ta	: Drv San	iahts (arams	sh Test We	st #200 Wa
Sample and Tare (grams)         Pan Tare Weight (grams)         Sieve Opening Size         Weight Retained (grams)         Percent Finer         Percent Retained           369.60         0.00         0.00         1         0.00         100         0           369.60         0.00         0.00         1         0.00         100         0           #44         6.50         98         2         #10         15.50         96         4           #16         22.20         94         6         #30         49.90         86         14           #40         101.20         73         27         #50         179.80         51         49           #100         288.90         22         78         #200         354.20         4.2         95.8           Eractional Components				. = 0.00	Tare Wt	· J · · · · · · · · · · · · · · · · · ·		
and Tare (grams)         Tare (grams)         Tare Weight (grams)         Opening Size         Retained (grams)         Percent Finer         Percent Retained           369.60         0.00         0.00         1         0.00         100         0           .5         0.00         100         0         .5         0.00         100         0           #4         6.50         98         2				Olavia	ive			
369.60       0.00       0.00       1       0.00       100       0         369.60       0.00       0.00       1       0.00       100       0         #4       6.50       98       2       #10       15.50       96       4         #16       22.20       94       6       #30       49.90       86       14         #40       101.20       73       27       #50       179.80       51       49         #100       288.90       22       78       #200       354.20       4.2       95.8         Fractional Components	ing Retained Percent Percent	-			ght		Tare	•
.5       0.00       100       0         #4       6.50       98       2         #10       15.50       96       4         #16       22.20       94       6         #30       49.90       86       14         #40       101.20       73       27         #50       179.80       51       49         #100       288.90       22       78         #200       354.20       4.2       95.8         Fractional Components								
#4       6.50       98       2         #10       15.50       96       4         #16       22.20       94       6         #30       49.90       86       14         #40       101.20       73       27         #50       179.80       51       49         #100       288.90       22       78         #200       354.20       4.2       95.8         Fractional Components				-	00	) 0	0.00	369.60
#10       15.50       96       4         #16       22.20       94       6         #30       49.90       86       14         #40       101.20       73       27         #50       179.80       51       49         #100       288.90       22       78         #200       354.20       4.2       95.8         Fractional Components         Fines         Fines         Gravel       Coarse         Gravel       Coarse         Medium       Fine         Sand       Fines         Cobbles								
#16       22.20       94       6         #30       49.90       86       14         #40       101.20       73       27         #50       179.80       51       49         #100       288.90       22       78         #200       354.20       4.2       95.8         Fractional Components         Fines         Fines         Gravel       Coarse       Medium       Fine       Total       Silt       Clay								
#30       49.90       86       14         #40       101.20       73       27         #50       179.80       51       49         #100       288.90       22       78         #200       354.20       4.2       95.8         Fractional Components         Fines         Fines         Cobbles       Fine       Total       Coarse       Medium       Fine       Fine								
#50       179.80       51       49         #100       288.90       22       78         #200       354.20       4.2       95.8         Fractional Components         Fines         Cobbles       Fine         Coarse       Fine         Fine       Total       Coarse       Fine								
#100         288.90         22         78           #200         354.20         4.2         95.8           Fractional Components           Cobbles         Fine           Coarse         Fine         Sand         Fines           Cobbles         Coarse         Fines	<i>t</i> 40 101.20 73 27	01.20	) 10	#40				
#200     354.20     4.2     95.8       Fractional Components       Cobbles     Fines       Cobbles     Fine     Total     Coarse     Medium     Fine     Total     Clay				#50				
Fractional Components         Fractional Components         Cobbles       Fines         Cobbles       Fine       Fines         Cobbles       Fine       Fines         Cobbles       Fine       Coarse       Medium       Fine       Fines								
Gravel     Sand       Cobbles     Gravel     Total     Coarse     Medium     Fine     Total     Silt     Clay					11 11 1100 10			
Cobbles         Coarse         Fine         Total         Coarse         Medium         Fine         Total         Silt         Clay	Fractional Components	Comp		FI8		Wilty - 's a's	100 M	S In Switch I
Coarse Fine Total Coarse Medium Fine Total Slit Clay								Cobbles
0 0 2 2 2 2 3 69 94								
	2 23 69 94 4	23	2	2	2	2	0	0
D <sub>5</sub> D <sub>10</sub> D <sub>15</sub> D <sub>20</sub> D <sub>30</sub> D <sub>40</sub> D <sub>50</sub> D <sub>60</sub> D <sub>80</sub> D <sub>85</sub> D <sub>90</sub>		D	Dan	Dan	Dan	D15	Dia	De
	$U_{40}$   $U_{50}$   $U_{60}$   $U_{80}$   $U_{85}$   $U_{90}$   $U_{95}$	-						
0.0770 0.0703 0.1177 0.1411 0.1711 0.2422 0.2751 0.5447 0.4957 0.5037 0.7049		0.2	0.2422	V.1711	.1411	0.11//	0.0903	0.0778
Fineness C <sub>u</sub> C <sub>c</sub>								



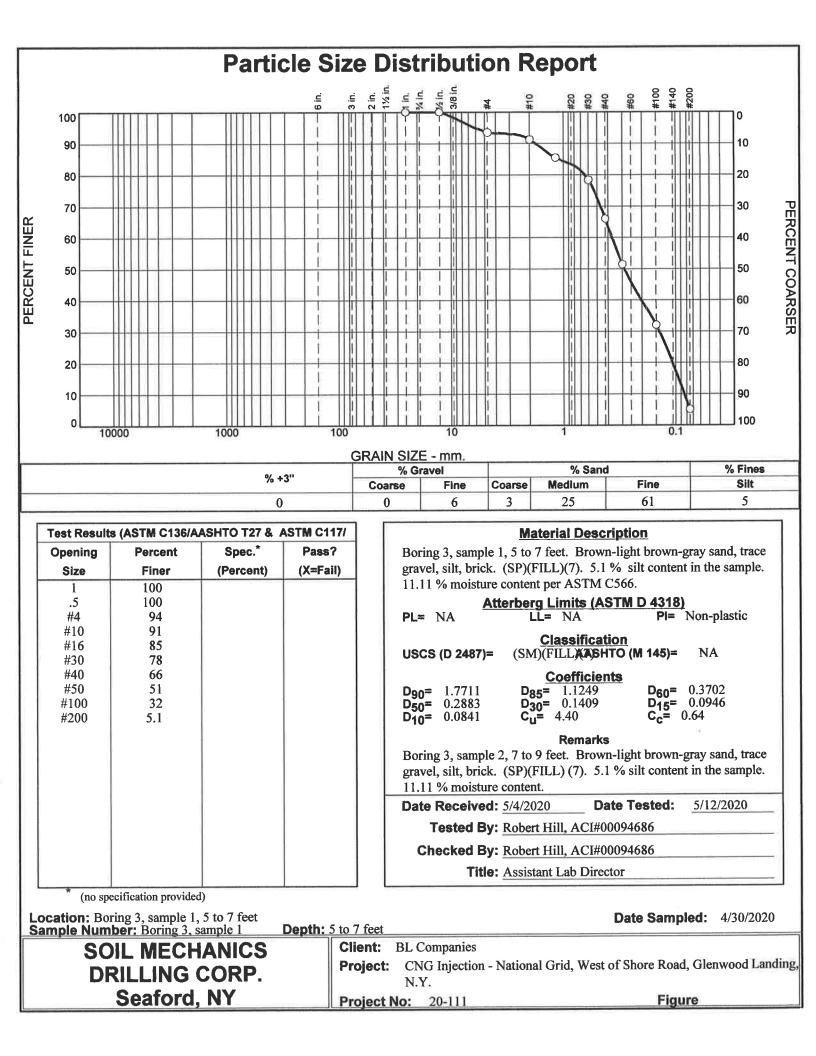
mple Date	c : 4/30/2020	ontent in sa	ample. 19.		•		~ ^	TTANTA NATAL IN			
te Receive	: 4/30/2020		ample. 17.		ture conte	nt in the c	ample ner	little silt. (S			
te Receive				.04 /0 ШОВ			ample per s		O(DZZIT)		
	ed: 5/4/202		L: NA			LL: NA			PI: Non-p	lastic	
sus ulassi	ification: (						Classifica	tion: NA	1		
			C136/AAS	HTO T27							
			7/T11 (Met		ter used o	nly)					
sting Rem	arks: Bori	ng 2, samp	ole 2, 7 to 9	feet. Gra	y brown sa	and, little s	silt, trace g	ravel. (SP-	SM)(FILL	)(7). 13 %	silt conter
	in th	e sample.	19.04 % m	oisture con	tent per A	STM C56	6(ASTM I	02217).			
sted By: R	lobert Hill,	ACI#0009	94686			Test Date	: 5/12/202	0			
necked By:	Robert Hi	11, ACI#00	094686			Title: Assi	istant Lab l	Director			
and the	Par 20 ac			1.514.2	Sieve To	est Data			- cour-		5 S.W.
st #200 Wa	sh Test Wei	ghts (gram	is): Dry Sar		are = 218.8	0					
				t. = 0.00 # <b>200 from</b> w	vash = 12.5	5%					
Dry		Cumul	lative		Cumu	lative					
Sample	_	Pa		Sieve	Wei	-					
and Tare (grams)	Tare (grams)	Tare W (grar		Opening Size	j Reta (gra		Percent Finer	Percent Retained			
250.10	0.00		0.00	1		0.00	100	0			
250.10	0.00	· · · · ·	0.00	.4		0.00	100	0			
				#4		1.10	96	4			
				#10	) 1	7.80	93	7			
				#16	53	2.20	87	13			
				#30	) 6	6.50	73	27			
				#4(		4.40	50	50			
				#50		5.50	34	66			
				#100		7.70	25	75			
100 110 110			M 20	#200		8.70	13	87			
te te sila t		al à thu	200	Fr	actional C	Componer	nts		TE S S MAL	v = aiv=	1. 19 9 11
		Gravel				Sand				Fines	
<b>A</b> 444		Fine	Total	Coar	se Mea	lium I	Fine	Total	Silt	Clay	Total
Cobbles	Coarse			3	4	3	37	83			13
				1 3	4	3	37	83			13
Cobbies 0	Coarse 0	4	4								
		4	D <sub>20</sub>	D <sub>30</sub>	D <sub>40</sub>	D <sub>50</sub>	D <sub>60</sub>	D <sub>80</sub>	D <sub>85</sub>	D <sub>90</sub>	D95



		0 0	#16 0.90 99 1 #30 2.10 99 1 #40 3.50 98 2 #50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components
#10 0.00 100 0	#4 0.00 100 0		#10       0.00       100       0         #16       0.90       99       1         #30       2.10       99       1         #40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
#40.001000#100.001000		V	#4       0.00       100       0         #10       0.00       100       0         #16       0.90       99       1         #30       2.10       99       1         #40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22
#10 0.00 100 0		0	#4       0.00       100       0         #10       0.00       100       0         #16       0.90       99       1         #30       2.10       99       1         #40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22
.5 0.00 100 0 #4 0.00 100 0 #10 0.00 100 0	.5 0.00 100 0		.5       0.00       100       0         #4       0.00       100       0         #10       0.00       100       0         #16       0.90       99       1         #30       2.10       99       1         #40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22
Indication         Indication <thindication< th="">         Indication         Indicati</thindication<>	(grams)         (grams)         Size         (grams)         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0	Retained 0	Inters         Inters         Inters         Inters         Inters         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0         .5         0.00         100         0           #4         0.00         100         0         .5         0.00         100         0           #10         0.00         100         0         .5 <t< th=""></t<>
Sample and Tare (grams)Pan Tare Weight (grams)Sieve Opening SizeWeight Retained (grams)Percent RetainedPercent Retained146.000.000.0010.001000.50.0010000440.001000#40.00100010001000	SamplePanSieveWeightand TareTareTare WeightOpeningRetainedPercentPercent(grams)(grams)(grams)Size(grams)FinerRetained146.000.000.0010.001000.50.0010000	Retained 0	Sample and Tare (grams)         Pan Tare Weight (grams)         Sleve Size         Weight Retained (grams)         Percent Finer         Percent Retained           146.00         0.00         0.00         1         0.00         100         0           146.00         0.00         0.00         1         0.00         100         0           #4         0.00         100         0         0         0         0           #10         0.00         100         0         0         0         0           #16         0.90         99         1         430         2.10         99         1           #40         3.50         98         2         450         9.00         94         6           #100         17.20         88         12         200         32.00         78         22           Fractional Components
Indication         Indication <thindication< th="">         Indication         Indicati</thindication<>	(grams)         (grams)         Size         (grams)         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0	Retained 0	International (grams)         International (grams)         Size         (grams)         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0         .5         0.00         100         0           #4         0.00         100         0         .5         0.00         100         0           #10         0.00         100         0         .5
Sample ind Tare (grams)Pan Tare Weight (grams)Sieve Opening SizeWeight Retained (grams)Percent RetainedPercent Retained146.000.000.0010.001000.50.0010000440.001000#40.00100010001000	SamplePanSieveWeightInd TareTareTare WeightOpeningRetainedPercentPercent(grams)(grams)(grams)Size(grams)FinerRetained146.000.000.0010.001000.50.0010000	Retained 0	Sample und Tare (grams)         Pan Tare Weight (grams)         Sieve Tare Weight (grams)         Weight Retained (grams)         Percent Retained         Percent Retained           146.00         0.00         0.00         1         0.00         100         0           146.00         0.00         0.00         1         0.00         100         0           #4         0.00         100         0         100         0           #10         0.00         100         0         146.00         100         0           #40         0.50         99         1         146.00         100         0           #16         0.90         99         1         146.00         100         0           #10         0.00         100         0         146.00         100         0           #100         17.20         88         12         1200         32.00         78         22           Fractional Components
Ind Tare (grams)Tare (grams)Tare Weight (grams)Opening SizeRetained (grams)Percent FinerPercent Retained146.000.000.0010.001000.50.0010000#40.001000#100.001000	Ind TareTareTare Weight (grams)Opening SizeRetained (grams)Percent FinerPercent Retained146.000.000.0010.001000.50.0010000	Retained 0	Tare (grams)         Tare Weight (grams)         Opening Size         Retained (grams)         Percent Finer         Percent Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0         0         0         .5         0.00         100         0           #4         0.00         100         0         .5         0.00         100         0           #10         0.00         100         0         .5
Ind Tare (grams)Tare (grams)Tare (grams)Tare (grams)Tare (grams)Percent SizePercent (grams)Percent Retained146.000.000.0010.001000.50.0010000#40.001000#100.001000	SamplePanSieveWeightInd TareTareTare WeightOpeningRetainedPercentPercent(grams)(grams)(grams)Size(grams)FinerRetained146.000.000.0010.001000.50.0010000	Retained 0	Sample und Tare (grams)         Pan Tare Weight (grams)         Sieve Tare Weight (grams)         Weight Retained (grams)         Percent Retained         Percent Retained           146.00         0.00         0.00         1         0.00         100         0           146.00         0.00         0.00         1         0.00         100         0           #4         0.00         100         0         100         0           #10         0.00         100         0         146.00         100         0           #40         0.50         99         1         146.00         100         0           #16         0.90         99         1         146.00         100         0           #10         0.00         100         0         146.00         100         0           #100         17.20         88         12         1200         32.00         78         22           Fractional Components
Dry Sample and Tare (grams)Cumulative Pan (grams)Cumulative Sieve Opening SizeCumulative Weight Retained (grams)Percent Retained Retained146.000.000.0010.001000146.000.000.0010.001000146.00100010001000146.0010010001000146.0010010001000146.0010010001000	DryCumulative PanCumulative WeightSamplePanSieve Opening (grams)Weightand TareTare (grams)Tare Weight (grams)Opening SizeRetained (grams)Percent Finer146.000.000.0010.001000146.000.000.0010.001000	Retained 0	Dry Sample and Tare (grams)         Cumulative Pan Tare Weight (grams)         Cumulative Weight Retained (grams)         Percent Finer         Percent Retained           146.00         0.00         0.00         1         0.00         100         0           146.00         0.00         0.00         1         0.00         100         0           146.00         0.00         0.00         1         0.00         100         0           #4         0.00         100         0         0         0         0           #40         0.00         100         0         0         0         0           #10         0.00         100         0         0         0         0         0           #10         0.00         100         0         0         0         0         0           #40         3.50         98         2         0         20         0         20           #100         17.20         88         12         0         22         0         22
Sample and Tare (grams)Pan Tare Weight (grams)Sieve Opening SizeWeight Retained (grams)Percent RetainedPercent Retained146.000.000.0010.001000.50.0010000440.001000#40.00100010001000	DryCumulative PanCumulative WeightSamplePanSieve Opening (grams)Weightand TareTare (grams)Tare Weight (grams)Opening 	Retained 0	Dry Sample and Tare (grams)         Cumulative Pan Tare Weight (grams)         Cumulative Weight Retained (grams)         Percent Finer         Percent Retained           146.00         0.00         0.00         1         0.00         100         0           146.00         0.00         0.00         1         0.00         100         0           146.00         0.00         0.00         1         0.00         100         0           #4         0.00         100         0         0         0         0           #40         0.00         100         0         0         0         0           #10         0.00         100         0         0         0         0         0           #10         0.00         100         0         0         0         0         0           #40         3.50         98         2         0         20         0         20           #100         17.20         88         12         0         22         0         22
Tare Wt. = 0.00 Minus #200 from wash = 78.0%DryCumulative PanCumulative SleveWeight Weight (grams)Ind TareTare (grams)Tare Weight (grams)Percent SizePercent (grams)146.000.000.0010.000146.000.000.00100#40.0010000#100.0010000	Tare Wt. = 0.00 Minus #200 from wash = 78.0%DryCumulativeCumulativeSamplePanSieveWeightInd TareTareTare WeightOpeningRetainedPercent(grams)(grams)Size(grams)FinerRetained146.000.000.0010.001000.50.00100000	Retained 0	Tare Wit. = 0.00 Minus #200 from wash = 78.0%         Dry Sample ind Tare       Cumulative Pan       Sieve Sieve       Cumulative Weight         (grams)       Tare Weight (grams)       Opening Size       Percent Retained       Percent Retained         146.00       0.00       0.00       1       0.00       100       0         146.00       0.00       0.00       1       0.00       100       0         #44       0.00       100       0       1       400       100       0         #10       0.00       100       0       1       400       100       0       1         #40       3.50       98       2       430       2.10       99       1       440       3.50       98       2       450       9.00       94       6       100       17.20       88       12       4200       32.00       78       22       Eractional Components
Tare Wt. = 0.00 Minus #200 from wash = 78.0%DryCumulative PanCumulative SievePercent Weight (grams)and TareTare (grams)Tare Weight (grams)Percent SizePercent (grams)146.000.000.0010.001000.50.001000440.001000#100.0010000000	Tare Wt. = 0.00 Minus #200 from wash = 78.0%DryCumulativeCumulativeSamplePanSieveWeightand TareTareTare WeightOpeningRetainedPercent(grams)(grams)Grams)Size(grams)FinerRetained146.000.000.0010.001000.50.0010000	Retained 0	Tare Wit. = 0.00 Minus #200 from wash = 78.0%         Dry Sample and Tare (grams)       Cumulative Pan       Sleve Sleve       Cumulative Weight (grams)       Percent Retained       Percent Retained         146.00       0.00       0.00       1       0.00       100       0         146.00       0.00       0.00       1       0.00       100       0         #4       0.00       100       0       0       #10       0.00       100         #10       0.00       100       0       #16       0.99       1       #30       2.10       99       1         #40       3.50       98       2       #50       9.00       94       6         #100       17.20       88       12       #200       32.00       78       22         Fractional Components
at #200 Wash Test Weights (grams): Dry Sample and Tare = $32.10$ Tare Wt. = $0.00$ Minus #200 from wash = $78.0\%$ DryCumulative PanCumulative Sleve (grams)Percent FinerPercent Retained146.000.000.0010.001000146.000.000.0010.001000#40.001000#1000	st #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0% Dry Cumulative Cumulative Sample Pan Sieve Weight and Tare Tare Tare Weight Opening Retained Percent Percent (grams) (grams) (grams) Size (grams) Finer Retained 146.00 0.00 0.00 1 0.00 100 0 .5 0.00 100 0	Retained 0	St #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry       Cumulative Pan       Sieve Size       Cumulative Weight Retained       Percent Finer       Percent Retained         146.00       0.00       0.00       1       0.00       100       0         146.00       0.00       0.00       1       0.00       100       0         #44       0.00       100       0       1       100       100         #410       0.00       100       0       1       400       100       0         #16       0.90       99       1       400       3.50       98       2       450       9.00       94       6       4100       17.20       88       12       4200       32.00       78       22         Fractional Components
Sieve Test Data         Sieve Test Data         Sieve Test Data         Sit #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry Cumulative Pan       Cumulative Weight Ind Tare       Tare Weight         Dry Sample       Cumulative Pan       Sieve Sieve       Weight Weight       Percent       Percent         (grams)       (grams)       (grams)       Size       (grams)       Finer       Retained         146.00       0.00       0.00       1       0.00       100       0         #4       0.00       100       0       #10       0.00       100       0	Sieve Test Data         Sieve Test Data         Sieve Test Data         Sat #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry       Cumulative         Sample       Pan         Sieve       Weight         and Tare       Tare Weight         (grams)       (grams)         (grams)       Size         (grams)       Finer         146.00       0.00         0.00       1         0.00       100	Retained 0	Sieve Test Data         Sieve Test Data         Sieve 300         Tare Weights (grams): Dry Sample and Tare = 32.10         Cumulative Weight         Dry       Cumulative         Sample Ind Tare       Pan         Tare Weight (grams)       Sieve         (grams)       (grams)         (grams)       (grams)         Size       Weight         Retained       Percent         (grams)       (grams)         146.00       0.00         0.00       1         0.00       0.00         #44       0.00         #10       0.00         #16       0.90         #16       0.90         #16       0.90         #30       2.10         #40       3.50       98         #50       9.00       94         #100       17.20       88       12         #200       32.00       78       22
Sieve Test Data         Sieve Test Data         Sieve Test Data         Sieve Weight         Cumulative         Cumulative         Pan       Sieve       Weight         Ind Tare       Tare Weight       Opening       Retained       Percent         Retained       Percent       Percent         (grams)       (grams)       Sieve       Weight         Opening       Retained       Percent       Percent         (grams)       (grams)       Sieve       Weight         146.00       0.00       0.00       1       0.00       100       0         #4       0.00       100       0       #10       0.00       100       0	Sieve Test Data         Dry Sample and Tare = 32.10         Tare Wt. = 0.00         Minus #200 from wash = 78.0%         Dry       Cumulative         Sample       Pan       Sleve       Weight         Ind Tare       Tare       Tare Weight       Opening       Retained       Percent       Percent         (grams)       (grams)       (grams)       Size       (grams)       Finer       Retained         146.00       0.00       0.00       1       0.00       100       0	Percent Retained 0	Sieve Test Data          Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry       Cumulative Pan       Cumulative Weight         Ind Tare       Tare       Tare Weight       Percent (grams)       Percent Retained       Percent Retained         146.00       0.00       0.00       1       0.00       100       0         #44       0.00       100       0       146.00       0.00       140       0         #40       0.00       100       0       146.00       100       0       146.00       0.00       100       0         #40       0.00       100       0       140       0.00       100       0         #10       0.00       100       0       140       3.50       98       2         #30       2.10       99       1       140       3.50       98       2         #40       3.50       98       2       140       17.20       88       12         #200       32.00       78       22       22       Eractional Components
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Test Date: 5/12/2020Test Date: 5/12/2020Title: Assistant Lab DirectorSieve Test DataDry Cumulative Sample Ind Tare (grams)Cumulative Pan (grams)Cumulative Sieve Veight Sieve Size (grams)Cumulative Retained (grams)Percent Retained Retained146.000.000.0010.000146.000.000.0010.000146.000.0010.001000146.000.00100010146.000.0010.001000146.000.00100010146.000.00100010146.000.00100010146.000.00100010146.000.00100010146.000.00100010146.000.00100010146.000.001000101400.00100011400.001000101400.001000101400.001000101400.001000101400.001000101400.00100010	teted By: Robert Hill, ACI#00094686Test Date: 5/12/2020Test Date: 5/12/2020Title: Assistant Lab DirectorSieve Test DataTare Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%Dry Sample nd Tare (grams)Cumulative PanSieve Weight Retained (grams)Tare Weight (grams)Opening Retained (grams)Percent Retained Percent Retained146.000.000.0010.000.50.001000	20 Director Percent Retained 0	Atted By: Robert Hill, ACI#00094686       Test Date: 5/12/2020         Sieve Test Date       Sieve Test Date         Sieve Test Date:       Sieve Test Date:         Att #200 Wash Test Weights (grams):       Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%       Cumulative         Dry       Cumulative (grams)       Cumulative (grams)       Cumulative (grams)       Percent (grams)       Percent Retained       Percent Retained         146.00       0.00       0.00       1       0.00       100       0         #4       0.00       100       0       116       0.90       99       1         #40       3.50       98       2       1460       99       1       140       3.50       98       2         #40       3.50       98       2       140       3.50       98       2       140       3.50       98       2       1400       17.20       88       12       120       32.00       78       22       120       32.00       78       22         Fractional Components
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fines are silt). 31.33 % moisture content per ASTM C566 (ASTM D2217). teted By: Robert Hill, ACI#00094686 Test Date: 5/12/2020 Test Date: 5/12/2020 Title: Assistant Lab Director Sieve Test Data t #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0% Dry Cumulative Sample nd Tare Tare Tare Weight (grams) Sieve Weight nd Tare Tare Tare Weight (grams) Size (grams) Finer Retained (grams) (grams) (grams) Size (grams) Finer Retained 146.00 0.00 0.00 1 0.00 100 0 .5 0.00 100 0 #4 0.00 100 0	fines are silt). 31.33 % moisture content per ASTM C566 (ASTM D2217). ated By: Robert Hill, ACI#00094686 Test Date: 5/12/2020 acked By: Robert Hill, ACI#00094686 Title: Assistant Lab Director Sieve Test Data at #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0% Dry Cumulative Cumulative Sample Pan Sieve Weight nd Tare Tare Tare Weight Opening Retained Percent Percent grams) (grams) (grams) Size (grams) Finer Retained 146.00 0.00 0.00 1 0.00 100 0 .5 0.00 100 0	1 D2217). 20 Director Percent Retained 0	fines are silt). 31.33 % moisture content per ASTM C566 (ASTM D2217).         tet By: Robert Hill, ACI#00094686         Test Date: 5/12/2020         Sieve Test Date: 5/12/2020         Title: Assistant Lab Director         Sieve Test Data         t #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry         Cumulative Pan         Sieve         Weight nd Tare         Tare Weight Opening         Retained         Percent         Percent (grams)         (grams)         1000         #title: Assistant Lab Director         Sieve Test Data         Dry         Cumulative         Pan       Sieve       Weight         rare (grams)       (grams)       Finer       Percent         (grams)       0.00       1       0.00       0         #tare Weight         #tare Weight       Opening         #tare Weight       Opening         #tare Weight       0.
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fines are silt). 31.33 % moisture content per ASTM C566 (ASTM D2217). sted By: Robert Hill, ACI#00094686 Test Date: 5/12/2020 ecked By: Robert Hill, ACI#00094686 Title: Assistant Lab Director Sieve Test Data at #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0% Dry Cumulative Pan Sieve Weight and Tare Tare Meight (grams) Size (grams) Finer Percent (grams) (grams) (grams) Size (grams) Finer Retained 146.00 0.00 0.00 1 0.00 100 0 44 0.00 100 0 #10 0.00 100 0	$\begin{array}{c c} \mbox{fines are silt)} & 31.33 \ \% \ \mbox{moisture content per ASTM C566 (ASTM D2217)}, \\ \mbox{sted By: Robert Hill, ACI#00094686} & Test Date: 5/12/2020 \\ \mbox{ecked By: Robert Hill, ACI#00094686} & Title: Assistant Lab Director \\ \hline \hline \\ \hline $	1 D2217). 20 Director Percent Retained 0	fines are sit). 31.33 % moisture content per ASTM C566 (ASTM D2217).         sted By: Robert Hill, ACI#00094686       Test Date: 5/12/2020         ecked By: Robert Hill, ACI#00094686       Title: Assistant Lab Director         Sieve Test Data         Sieve Test Data         Steve Test Data         Sieve Test Data         Sieve Test Data         Cumulative mash = 78.0%         Dry         Cumulative         Pan       Sieve         Retained         146.00       0.00         0.00       1       0.00         #44         0.46       #10         #10       0.00       100         #16       0.90       99       1         #30       2.10       78       2         #40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
Test Date: 5/12/2020Test Date: 5/12/2020Title: Assistant Lab DirectorSieve Test DataOpen Sieve WeightSieve WeightOpen SizeOpen Size146.000.000Side SizeOpen SizeOpen SizeOpen Size146.000.00100Imp SizeOpen SizeImp SizeOpen SizeImp SizeO	Sted By: Robert Hill, ACI#00094686Test Date: 5/12/2020Sieve Test Date: 5/12/2020Title: Assistant Lab DirectorSieve Test DataSieve Test DataDry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%Dry Sample Ind Tare (grams)Cumulative Pan Sieve Opening SizePercent Weight Retained (grams)Percent Retained Finer146.000.000.0010.001000.50.0010000	20 Director Percent Retained 0	Sted By: Robert Hill, ACI#00094686       Test Date: 5/12/2020         Sieve Test Date: 5/12/2020         Tere Weight Sign colspan="4">Cumulative Weight         Percent Retained         Percent Retained         (grams)       Sieve Weight         Year Meight Opening Retained       Percent Retained         146.00       0.00       1       0.00       0         #10       0.00       100         146.00       0.00       4       6 <t< td=""></t<>
Test Date: 5/12/2020Test Date: 5/12/2020Title: Assistant Lab DirectorSieve Test DataOpen Sieve WeightSieve WeightOpen SizeOpen Size146.000.000Side SizeOpen SizeOpen SizeOpen Size146.000.00100Imp SizeOpen SizeImp SizeOpen SizeImp SizeO	Sted By: Robert Hill, ACI#00094686Test Date: 5/12/2020Sieve Test Date: 5/12/2020Title: Assistant Lab DirectorSieve Test DataSieve Test DataDry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%Dry Sample Ind Tare (grams)Cumulative Pan Sieve Opening SizePercent Weight Retained (grams)Percent Retained Finer146.000.000.0010.001000.50.0010000	20 Director Percent Retained 0	Sted By: Robert Hill, ACI#00094686       Test Date: 5/12/2020         Sieve Test Date: 5/12/2020         Tere Weight Sign colspan="4">Cumulative Weight         Percent Retained         Percent Retained         (grams)       Sieve Weight         Year Meight Opening Retained       Percent Retained         146.00       0.00       1       0.00       0         #10       0.00       100         146.00       0.00       4       6 <t< td=""></t<>
Becked By: Robert Hill, ACI#00094686       Title: Assistant Lab Director         Sieve Test Data         Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry       Cumulative Pan       Sieve Weight         Sieve Weight         Sample and Tare       Pan Tare       Sieve Weight       Percent Finer       Percent Retained         146.00       0.00       0       1       0.00       100       0         146.00       0.00       0.00       1       0.00       100       0         #4       0.00       100       0       #4       0.00       100       0         #10       0.00       100       0       100       0       0       0	Becked By: Robert Hill, ACI#00094686       Title: Assistant Lab Director         Sieve Test Data         Sieve Test Data         Sit #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry       Cumulative Pan       Cumulative Sieve       Percent Weight (grams)       Percent Retained         Ind Tare       Tare       Tare Weight (grams)       Opening Size       Retained (grams)       Percent Retained         146.00       0.00       0.00       1       0.00       100       0	Percent Retained 0	Title: Assistant Lab Director         Sieve Test Data         st #200 Wash Test Weights (grams): Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry       Cumulative Pan       Sieve Cumulative Weight         Ind Tare       Tare Weight (grams)       Cumulative Size       Percent Retained       Percent Retained         146.00       0.00       0       1       0.00       100       0         #44       0.00       100       0       110       0       0         #40       3.50       99       1       430       2.10       99       1         #40       3.50       98       2       450       9.00       94       6         #100       17.20       88       12       420       32.00       78       22         Fractional Components
Sieve Test Data         Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry Cumulative Pan       Sieve Weight         Pan       Sieve Weight         Ind Tare       Tare Weight       Opening       Retained       Percent         (grams)       (grams)       (grams)       Size       (grams)       Finer       Retained         146.00       0.00       0.00       1       0.00       100       0         #4       0.00       100       0       #10       0.00       100       0	Sieve Test Data         Dry Sample and Tare = 32.10         Tare Wt. = 0.00         Minus #200 from wash = 78.0%         Dry       Cumulative         Sample       Pan       Sleve       Weight         Ind Tare       Tare       Tare Weight       Opening       Retained       Percent       Percent         (grams)       (grams)       (grams)       Size       (grams)       Finer       Retained         146.00       0.00       0.00       1       0.00       100       0	Percent Retained 0	Sieve Test Data          Dry Sample and Tare = 32.10 Tare Wt. = 0.00 Minus #200 from wash = 78.0%         Dry       Cumulative Pan       Cumulative Weight         Ind Tare       Tare       Tare Weight       Percent (grams)       Percent Retained       Percent Retained         146.00       0.00       0.00       1       0.00       100       0         #44       0.00       100       0       146.00       0.00       140       0         #40       0.00       100       0       146.00       100       0       146.00       0.00       100       0         #40       0.00       100       0       140       0.00       100       0         #10       0.00       100       0       140       3.50       98       2         #30       2.10       99       1       140       3.50       98       2         #40       3.50       98       2       140       17.20       88       12         #200       32.00       78       22       22       Eractional Components
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Indication         Indication <thindication< th="">         Indication         Indicati</thindication<>	(grams)         (grams)         Size         (grams)         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0	Retained 0	Inters         Inters         Inters         Inters         Inters         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0         .5         0.00         100         0           #4         0.00         100         0         .5         0.00         100         0           #10         0.00         100         0         .5 <t< td=""></t<>
(grams)         (grams)         (grams)         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0         0         44         0.00         100         0           #4         0.00         100         0         410         0	(grams)         (grams)         Size         (grams)         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0         0         0         0         0	0	(grams)         (grams)         (grams)         Size         (grams)         Finer         Retained           146.00         0.00         0.00         1         0.00         100         0           .5         0.00         100         0         0         0           #4         0.00         100         0         0           #10         0.00         100         0         0           #16         0.90         99         1         430         2.10         99         1           #30         2.10         99         1         440         3.50         98         2           #50         9.00         94         6         4100         17.20         88         12           #200         32.00         78         22         Fractional Components         78
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#10 0.00 100 0			#10       0.00       100       0         #16       0.90       99       1         #30       2.10       99       1         #40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
#10 0.00 100 0	#4 0.00 100 0	0	#10       0.00       100       0         #16       0.90       99       1         #30       2.10       99       1         #40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22
			#16 0.90 99 1 #30 2.10 99 1 #40 3.50 98 2 #50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components
#16 0.90 99 1	#10 0.00 100 0	0	#30 2.10 99 1 #40 3.50 98 2 #50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components
TIU U.70 77 I			#30 2.10 99 1 #40 3.50 98 2 #50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components
		1	#40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
#30 2.10 99 1	#30 2.10 99 1	1	#40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
			#50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components
#40 3.50 98 2		1	#100 17.20 88 12 #200 32.00 78 22 Fractional Components
	#40 3.50 98 2	1	#100 17.20 88 12 #200 32.00 78 22 Fractional Components
		1 2	#200 32.00 78 22 Fractional Components
#100 17.20 88 12		1 2	#200 32.00 78 22 Fractional Components
	#50 9.00 94 6	1 2 6	Fractional Components
#200 32.00 78 22	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	Fractional Components
	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	
Fractional Components	#50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22	1 2 6 12	Gravel Sand Fines
	#50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22	1 2 6 12	Gravel Sand Fines
Gravel Sand	#50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22	1 2 6 12	
Cobbles	#50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components	1 2 6 12	
Coarse Fine Total Coarse Medium Fine Fine Sitt	#50     9.00     94     6       #100     17.20     88     12       #200     32.00     78     22   Fractional Components	1 2 6 12 22 <b>Fines</b>	Coorde Line Line Line Line Line Line Line Lin
	#50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components	1 2 6 12 22 <b>Fines</b>	Coarse Fine Total Coarse Medium Fine Total Sitt Cialy Total
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0         0         0         0         0         0         2         20         22	#50         9.00         94         6           #100         17.20         88         12           #200         32.00         78         22           Fractional Components           Cobbles         Gravel         Sand           Cobbles         Fine         Total         Coarse         Medium         Fine         Total         Sand	1           2           6           12           22           Fines           Total           Silt           Total	
	#50         9.00         94         6           #100         17.20         88         12           #200         32.00         78         22           Fractional Components           Cobbles         Grave!         Sand           Cobbles         Fine         Total         Coarse         Medium         Fine         Total         Sand	1           2           6           12           22           Fines           Total           Silt           Total	
	#50         9.00         94         6           #100         17.20         88         12           #200         32.00         78         22           Fractional Components           Cobbles         Grave!         Sand           Cobbles         Fine         Total         Coarse         Medium         Fine         Total         Sand	1           2           6           12           22           Fines           Total           Silt           Total	
	#50         9.00         94         6           #100         17.20         88         12           #200         32.00         78         22           Fractional Components           Cobbles         Grave!         Sand           Cobbles         Fine         Total         Coarse         Medium         Fine         Total         Sand	1           2           6           12           22           Fines           Total           Silt           Total	
0 0 0 0 0 2 20 22	#50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components         Cobbles         Gravel       Sand         Cobbles       Total       Coarse       Medium       Fine       Total       Silt         0       0       0       0       2       20       22       0	1 2 6 12 22 <b>Fines Total Silt Clay Total</b> 22 <b>78</b>	Oblige         Fine         Four         <
	#50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components         Cobbles         Gravel       Sand         Cobbles       Fine       Total       Coarse       Medium       Fine       Total       Silt         0       0       0       0       2       20       22       1	1 2 6 12 22 <b>Fines Total Silt Clay Total</b> 22 <b>78</b>	Oblige         Fine         Four         <
0 0 0 0 0 2 20 22	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	1           2           6           12           22           Fines           Total         Silt         Clay         Total           22           D80         D85         D90         D95	Obside         Find         Four of the second secon
#10 0.00 100 0	#4 0.00 100 0	0	#10       0.00       100       0         #16       0.90       99       1         #30       2.10       99       1         #40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
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			#30 2.10 99 1 #40 3.50 98 2 #50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components
	#16 0.90 99 1		#40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
		1	#40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
#30 2.10 99 1	#30 2.10 99 1	1	#40       3.50       98       2         #50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22         Fractional Components
			#50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components
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#50 9.00 94 6		1 2	#200 32.00 78 22 Fractional Components
		1 2	#200 32.00 78 22 Fractional Components
#100 17.20 88 12	#50 9.00 94 6	1 2 6	Fractional Components
	#50 9.00 94 6	1 2 6	Fractional Components
#200 32.00 78 22	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	Fractional Components
#200 32.00 78 22	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	
#200 32.00 78 22	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	
#200 32.00 78 22	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	
#200 32.00 78 22	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	
	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	
	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	
Eractional Components	#50         9.00         94         6           #100         17.20         88         12	1 2 6 12	
Fractional Components	#50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22	1 2 6 12	
Fractional Components	#50         9.00         94         6           #100         17.20         88         12           #200         32.00         78         22	1 2 6 12	Crovel Sand Fines
	#50         9.00         94         6           #100         17.20         88         12           #200         32.00         78         22	1 2 6 12	Cravel Sand Fines
	#50         9.00         94         6           #100         17.20         88         12           #200         32.00         78         22	1 2 6 12	Gravel Sand Fines
Gravel Sand	#50       9.00       94       6         #100       17.20       88       12         #200       32.00       78       22	1 2 6 12	
Cobbles	#50 9.00 94 6 #100 17.20 88 12 #200 32.00 78 22 Fractional Components	1 2 6 12 22	



oject Num	ber: 20-11	1									
ocation: Bo	oring 2, san	nple 11, 45	to 47 feet								
epth: 45 to						•		oring 2, san	-		
aterial Des								um to fine g			
			ontent in th	e sample p	per C117.	20.11 % m	oisture co	ntent per As	STM C566	(ASTM D2	217).
ample Date											
ate Receiv			L: NA			LL: NA			PI: Non-p	lastic	
SCS Class	•					AASHTO	Classifica	tion: NA			
		d: ASTM C			tor used a	-1-1)					
		STM C117					modium	to fine grair	ed sand tr	ace silt (SI	2)(3h) 1 (
esting Kem								M C566(AS			)(30). 1.3
etod By: E		ACI#0009		ipic. 20.1	1 /0 1110130	Test Date	_		1101 0221		
•		ill, ACI#000				Title: Assi					
licence by	. Robert In	1,710100	094000	19 5 6 1	Sieve T	est Data			gui à la 19		8
ost #200 Wa	sh Test Wei	ights (gram	s): Dry Sar	nple and Ta			AND DOWN				
		•	Tare W	t. = 0.00	<b>vash =</b> 1.99						
D		Cumul		AZUU ITOIII 4		/o I <b>lative</b>					
Dry Sample		Cumul Pa		Sleve		ight					
and Tare	Tare	Tare W	-	Opening			Percent	Percent Retained			
(grams)	(grams)		ns) 0.00	Size	(gra 1	<b>ms)</b> 0.00	Finer 100	0			
332.10	0.00	) (	0.00			0.00	100	0			
				#4		7.70	98	2			
				#10		0.20	97	3			
				#10	6 2	26.60	92	8			
				#30	0 7	7.70	77	23			
				#40	0 11	3.20	-66	34			
				#50		23.40	33	67			
				#10		98.80	10	90			
and the second second			THE OWNER OF THE OWN	#20	19/	25.80	1.9	98.1	10 - 1 - 12 - 1	110-120 - To	12.515 m
				FI	actional G	Componer	าเร				
Cabbles	1	Gravel			-	Sand				Fines	
Cobbles	Coarse	Fine	Total	Coar	rse Me	dium	Fine	Total	Silt	Clay	Total
0	0	2	2	1	3	81	64	96			2
De	D <sub>10</sub>	D <sub>15</sub>	D <sub>20</sub>	D <sub>30</sub>	D <sub>40</sub>	D <sub>50</sub>	D <sub>60</sub>	D <sub>80</sub>	D <sub>85</sub>	D <sub>90</sub>	D <sub>95</sub>
D5									0.8701	1.0696	1.4645
0.0947	0.1495	0.2161	0.2475	0.2903	0.3238	0.3566	0.3947	0.7106	0.8701	1.0090	1.4045
Fineness	Cu	c <sub>c</sub>									
Modulus											



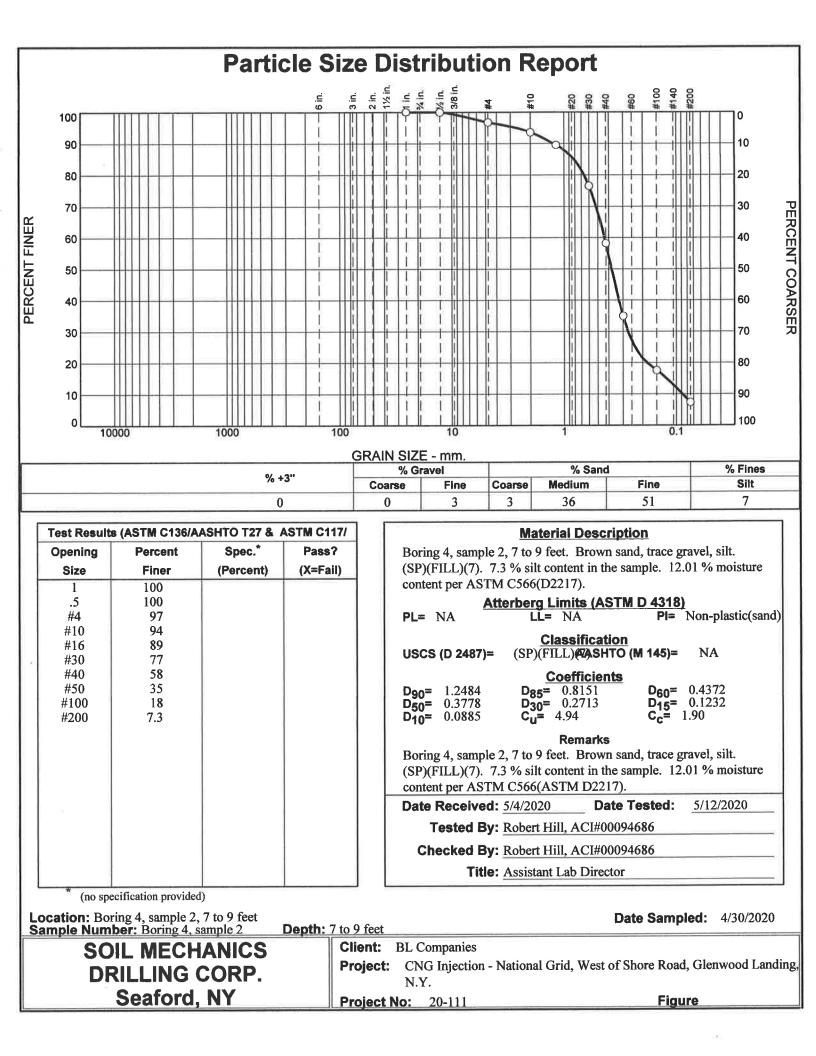
5/12/2020

**Client: BL Companies** Project: CNG Injection - National Grid, West of Shore Road, Glenwood Landing, N.Y. Project Number: 20-111 Location: Boring 3, sample 1, 5 to 7 feet Sample Number: Boring 3, sample 1 Depth: 5 to 7 feet Material Description: Boring 3, sample 1, 5 to 7 feet. Brown-light brown-gray sand, trace gravel, silt, brick. (SP)(FILL)(7). 5.1 % silt content in the sample. 11.11 % moisture content per ASTM C566. Sample Date: 4/30/2020 **PI:** Non-plastic Date Received: 5/4/2020 LL: NA PL: NA **AASHTO Classification: NA** USCS Classification: (SM)(FILL)(7) Grain Size Test Method: ASTM C136/AASHTO T27 #200 Wash Method: ASTM C117/T11 (Method A - water used only) Testing Remarks: Boring 3, sample 2, 7 to 9 feet. Brown-light brown-gray sand, trace gravel, silt, brick. (SP)(FILL) (7). 5.1 % silt content in the sample. 11.11 % moisture content. Test Date: 5/12/2020 Tested By: Robert Hill, ACI#00094686 Title: Assistant Lab Director Checked By: Robert Hill, ACI#00094686 Sieve Test Data Post #200 Wash Test Weights (grams): Dry Sample and Tare = 195.10 Tare Wt. = 0.00 Minus #200 from wash = 5.1% Cumulative Cumulative Dry Sieve Weight Sample Pan Percent Percent Retained and Tare Tare Tare Weight Opening Finer Retained Size (grams) (grams) (grams) (grams) 0.00 100 0 0.00 1 205.60 0.00 0 .5 0.00 100 94 6 #4 13.10 9 #10 18.00 91 15 #16 30.10 85 78 22 #30 44.50 34 #40 69.90 66 51 49 #50 99.90 32 #100 139.90 68 #200 195.10 5.1 94.9 **Fractional Components** 

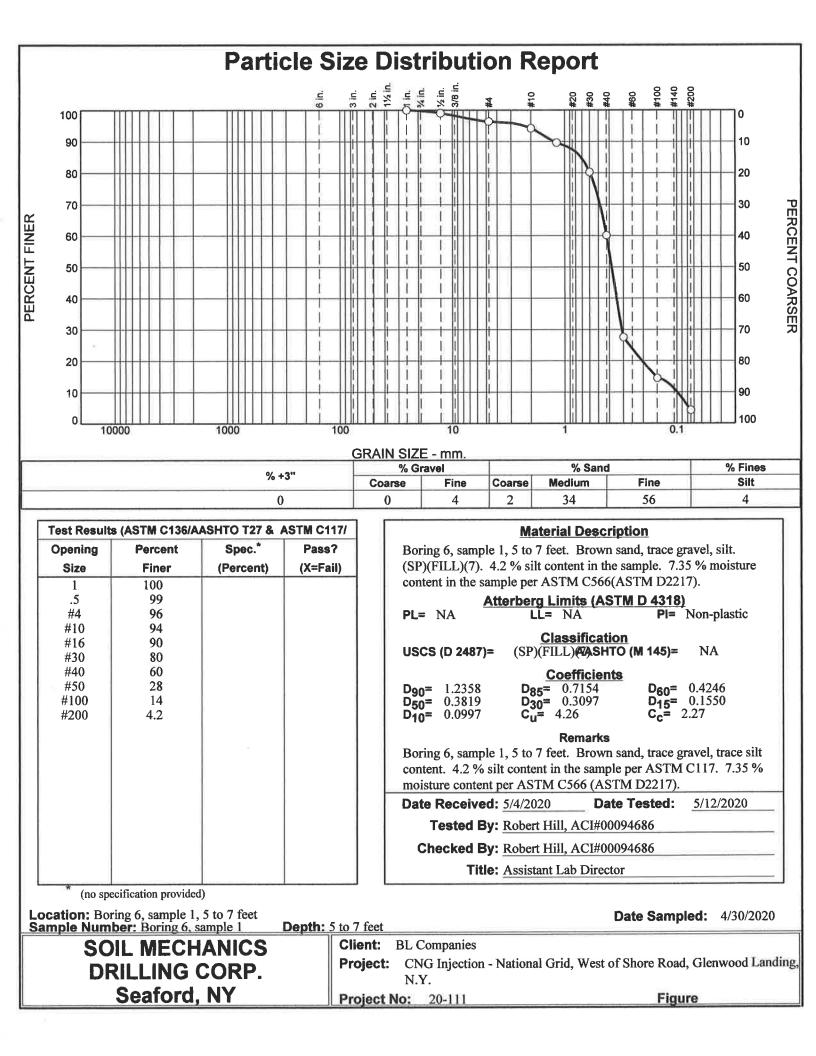
	Gravel				Sa	Fines				
Cobbles	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0	0	6	6	3	25	61	89			5

D5	D <sub>10</sub>	D <sub>15</sub>	D <sub>20</sub>	D <sub>30</sub>	D40	D <sub>50</sub>	D <sub>60</sub>	D80	D <sub>85</sub>	D <sub>90</sub>	D95
	0.0841	0.0946	0.1070	0.1409	0.2029	0.2883	0.3702	0.6456	1.1249	1.7711	6.1343

Fineness Modulus	c <sub>u</sub>	Cc
1.69	4.40	0.64



O         O         3         3         3         36         51         90	ject Numb ation: Bor			9 feet									
terial Description: Boring 4, sample 2, 7 to 9 feet. Brown sand, trace gravel, silt. (SP)(FILL)(7). 7.3 % silt content in t sample. 12.01 % moisture content per ASTM C566(D2217).           mple Date: 4/30/2020           ter Received: 5/4/2020           PL: NA         LL: NA         PI: Non-plastic(sand)           tare Received: 5/4/2020         PL: NA         LL: NA         PI: Non-plastic(sand)           tare Received: 5/4/2020         PL: NA         LL: NA         PI: Non-plastic(sand)           data Method: ASTM C136/AASHTO T27           OD Wash Method: ASTM C136/AASHTO T27           OD Wash Method: ASTM C117/T11 (Method A - water used only)           sting Remarks: Boring 4, sample 2, 7 to 9 feet. Brown sand, trace gravel, silt. (SP)(FILL)(7). 7.3 % silt content in the sile of moisture content per ASTM C566(ASTM D2217).           steed By: Robert Hill, ACI#00094686           Test Data           Silve           Curvulative Silve Curvulative Weight           Silve           Pare WL = 0.00           Minus #200 from wash = 7.3%           Dr           Curvulative           Pan         Silve		-	ipie 2, 7 to	, 1000			Sample N	umber: Bo	oring 4, sam	ple 2			
sample. 12.01 % moisture content per ASTM C566(D2217).         mple Date: 4/30/2020       PL: NA       LL: NA       PI: Non-plastic(sand)         te Received: 5/4/2020       PL: NA       LL: NA       PI: Non-plastic(sand)         CS Classification: NA         adASHTO Classification: NA         adASHTO Classification: NA         adASHTO Classification: NA         adASHTO Classification: NA         adata STM C136/AASHTO T27         00 Wash Method: ASTM C116/AASHTO T27         00 Wash Method: ASTM C116/AASHTO T27         00 Wash Method: ASTM C116/AASHTO T27         00 Wash Method: ASTM C110//T11 (Method A - water used only)         stign colspan="2">ASHTO C16//STM D2217).         sted By: Robert Hill, ACI#00094686         Tare Wighto grams): Dry Sample and Tare = 175.60         Tare Wighto grams)         Size         Cumulative         Yample and Tare = 175.60         Tare Weighto Grams)         Grams)         Grams)         Grams)       Size			Boring 4, sa	mple 2, 7	to 9 feet.				<u> </u>		silt content	in the	
te Received: 5/4/202 PL: NA LL: NA PI: Non-plastic(sand) AASHTO Classification: (SP)(FILL)(7) AASHTO T27 00 Wash Method: ASTM C136/AASHTO T27 00 Wash Method: ASTM C1036/AASHTO T27 00 Wash Method: ASTM C107/T11 (Method A - water used only) sting Remarks: Boring 4, sample 2, 7 to 9 feet. Brown sand, trace gravel, silt. (SP)(FILL)(7). 7.3 % silt content in the s 12.01 % moisture content per ASTM C566(ASTM D2217). sted By: Robert Hill, ACI#00094686 Test Data sted By: Robert Hill, ACI#00094686 Test Data sted By: Robert Hill, ACI#00094686 Title: Assistant Lab Director Sieve Test Data st #200 Wash Test Weights (grams): Dry Sample and Tare = 175.60 Tare Wt = 0.00 Minus #200 from wash = 7.3% Dry Cumulative Sieve Cumulative Weight and Tare Tare Tare Weight Opening Retained Percent Retained (grams) (grams) Size Cumulative Weight 189.50 0.00 0.00 1 0.00 100 0 #4 6.10 97 3 #10 12.10 94 6 #16 19.90 89 11 #30 44.50 77 23 #40 79.30 58 422 #200 175.60 7.3 92.7 Fractional Components ECObbles Cravel Total Coarse Medium Fine Total Silt Clay Tr 0 0 3 3 3 3 3 3 6 51 90 100 100 100 100 100 100 100 100 100													
AASHTO Classification: NA         ain Size Test Method: ASTM Cl36/AASHTO T27         00 Wash Method: ASTM Cl36/AASHTO T27         12.01 % moisture content per ASTM C566(ASTM D2217).         sted By: Robert Hill, ACI#00094686         Test Data         Sample and Tare = 175.60         Tare Wt = 0.00         Minus #200 from wash = 7.3%         Cumulative Wt = 0.00         Minus #200 from wash = 7.3%         Cumulative Weight (grams)         Gravel (grams)         Gravel (grams)         Gravel (grams)         A frace Weight         Opening         Size Wieght         Opening         Gravel (grams)         Finet         T	ple Date:	4/30/202	0			-							
Control of Coarse         And Start Classing Remarks: Boring 4, sample 2, 7 to 9 feet. Brown sand, trace gravel, silt. (SP)(FILL)(7). 7.3 % silt content in the silt in the silt of the site	Receive	<b>d:</b> 5/4/202	20 PI	L: NA			LL: NA			PI: Non-p	lastic(sand)	)	
D0 Wash Method: ASTM C117/T11 (Method A - water used only)         sting Remarks: Boring 4, sample 2, 7 to 9 feet. Brown sand, trace gravel, silt. (SP)(FILL)(7). 7.3 % silt content in the s         12.01 % moisture content per ASTM C566(ASTM D2217).         sted By: Robert Hill, ACI#00094686       Test Date: 5/12/2020         rested bate: 5/12/2020         tecked By: Robert Hill, ACI#00094686         Title: Assistant Lab Director         Sieve Test Data         st #200 Wash Test Weights (grams): Dry Sample and Tare = 175.60         Tare Weight         Opening         Retained         Pan         Size         Retained         10.00         Minus #200 from wash = 7.3%         Dry         Cumulative         Pan         Size         Retained         189.50         0.00         #10         #10         12.10         #10         #10         #10 <td colsp<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>AASHTO</td><td>Classificat</td><td>tion: NA</td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AASHTO</td> <td>Classificat</td> <td>tion: NA</td> <td></td> <td></td> <td></td>							AASHTO	Classificat	tion: NA			
sting Remarks: Boring 4, sample 2, 7 to 9 feet. Brown sand, trace gravel, silt. (SP)(FILL)(7). 7.3 % silt content in the silt. 01 % moisture content per ASTM C566(ASTM D2217).         sted By: Robert Hill, ACI#00094686         Test Date: 5/12/2020         steve Test Date         Sieve Test Data         Gumulative Fare Wieght Opening Retained Percent Retained         Tare Wieght Opening Size       Percent Retained         189.50       0.00       0.01       0.00       100       0         #10       12.10       94       6       #16       19.90       8       11          12.3.40       35 <td></td>													
12.01 % moisture content per ASTM C566(ASTM D2217).         sted By: Robert Hill, ACI#00094686         Test Date: 5/12/2020         test Date: 5/12/2020         Sieve Test Date         Sieve Test Date         Sieve Test Date         Cumulative Sample and Tare = 175.60 Tare Wt: = 0.00 Minus #200 from wash = 7.3%         Dry Cumulative Sample and Tare = 175.60 Tare Weight         Sieve Cumulative Sample and Tare frare (grams)         Sieve (grams)       Percent Retained         (grams)       Opening Size (grams)       Percent Retained         189.50       0.00       0.00       1       0.00       100       0         #10       12.10       94       6       #16       19.90       89       11         #30       44.05       77       23       #40       79.30       58       42         #30       12.340       35       65       4100       136.20       18       82         Fractional Components         Ecobles       Gravel       Since Sand       Finer Total       Sand       Fines										<b>T A A ( 1</b> )			
sted By: Robert Hill, ACI#00094686         Test Date: 5/12/2020           Title: Assistant Lab Director           Sieve Test Data           st #200 Wash Test Weights (grams): Dry Sample and Tare = 175.50 Tare Wt = 0.00 Minus #200 from wash = 7.3%           Dry Sample and Tare Tare (grams)         Cumulative Pan Tare Weight (grams)         Percent Retained         Percent Retained           189.50         0.00         0.00         1         0.00         100         0           189.50         0.00         0.00         1         0.00         100         0           #40         610         97         3         #10         12.10         94         6           #10         12.10         94         6         #16         19.90         89         11           #30         44.50         77         23         #40         79.30         58         42           #50         123.40         35         65         1100         156.20         18         82           Teractional Components           Cobbles         Gravei         Sand         Fines           O iso iso iso iso iso iso iso	ting Rema								)(FILL)(7).	7.3 % silf	content in	the sample	
Title: Assistant Lab Director         Sieve Test Data         st #200 Wash Test Weights (grams): Dry Sample and Tare = 175.60 Tare Wt. = 0.00 Minus #200 from wash = 7.3%         Cumulative Sieve Cumulative Pan       Cumulative Cumulative Pan         Sieve Dest       Cumulative (grams)       Cumulative (grams)       Percent Retained       Percent Retained         189.50       0.00       0.00       1       0.00       100       0         #4       6.10       97       3       #10       12.10       94       6         #10       12.10       94       6       #16       19.90       89       11         #30       44.50       77       23       #40       79.30       58       42         #50       123.40       35       65       123.40       35       65         #100       156.20       18       82       100       156.20       18       82         Fine Total Components					per ASIN				0				
Sieve Test Data         Sieve Test Data         Sieve Test Data         Sieve Weights (grams): Dry Sample and Tare = 175.60 Tare Wt. = 0.00 Minus #200 from wash = 7.3%         Dry Cumulative Pan         Sieve Cumulative Pan         Retained Percent Retained (grams)       Percent (grams)       Percent (grams)       Percent Retained       Percent Retained         189.50       0.00       0.00       1       0.00       100       0         #10       12.10       94       6       #16       19.90       89       11         #30       44.50       77       23       #40       79.30       58       42         #50       123.40       35       65       4100       156.20       18       82         #200       175.60       7.3       92.7       74         Cobbles       Fine         Gravel       Sand       Fines         Cobbles       Fine       Total       Coarse       Medium       Fine         O       0       3       3 <th colsp<="" td=""><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td>-</td> <td>-</td> <td></td>	-	-										
st #200 Wash Test Weights (grams): Dry Sample and Tare = 175.60 Tare Wt. = 0.00 Minus #200 from wash = 7.3%         Dry Sample and Tare (grams)       Cumulative Pan       Cumulative Size       Percent (grams)       Percent Retained       Percent Retained         189.50       0.00       0.00       1       0.00       100       0         189.50       0.00       0.00       1       0.00       100       0         #4       6.10       97       3       #10       12.10       94       6         #16       19.90       89       11       #30       44.50       77       23         #40       79.30       58       42       #50       123.40       35       65         #100       156.20       18       82       #200       175.60       7.3       92.7         Fractional Components         Cobbles       Gravel       Sand       Fines       Total       Clay       Total         0       0       3       3       3       36       51       90       o       o	cked by:	Robert HI	II, AC1#00	094080	e je veze		Contraction of the local division of the loc	stant Lao I	Director	10 105	0	1.310.51	
Tare Wt. = 0.00 Minus #200 from wash = 7.3%           Dry Sample and Tare (grams)         Cumulative Pan (grams)         Cumulative Size         Cumulative Weight (grams)         Percent Retained (grams)         Percent Retained         Percent Retained           189.50         0.00         0.00         1         0.00         100         0           189.50         0.00         0.00         1         0.00         100         0           #4         6.10         97         3         #10         12.10         94         6           #16         19.90         89         11         #30         44.50         77         23           #40         79.30         58         42         #50         123.40         35         65           #100         156.20         18         82         #200         175.60         7.3         92.7           Fine         Total         Coarse         Fines           Grave!         Coarse         Medium         Fine           Grave!         Coarse         Medium         Fine           Grave!         Coarse <th c<="" th=""><th>#200 Was</th><th>h Test Wei</th><th>iohts (oram</th><th>s): Drv Sa</th><th>nole and Ta</th><th></th><th></th><th>SIL WAS</th><th>- ASWAR II</th><th>A AND</th><th></th><th></th></th>	<th>#200 Was</th> <th>h Test Wei</th> <th>iohts (oram</th> <th>s): Drv Sa</th> <th>nole and Ta</th> <th></th> <th></th> <th>SIL WAS</th> <th>- ASWAR II</th> <th>A AND</th> <th></th> <th></th>	#200 Was	h Test Wei	iohts (oram	s): Drv Sa	nole and Ta			SIL WAS	- ASWAR II	A AND		
Sample and Tare (grams)         Pan Tare Weight (grams)         Sieve Tare Weight (grams)         Weight Retained (grams)         Percent Finer         Percent Retained           189.50         0.00         0.00         1         0.00         100         0           .189.50         0.00         0.00         1         0.00         100         0           .44         6.10         97         3         #10         12.10         94         6           #16         19.90         89         11         #30         44.50         77         23           #40         79.30         58         42         #50         123.40         35         65           #100         156.20         18         82         #200         175.60         7.3         92.7           Fractional Components           Cobbles         Gravel         Coarse         Medium         Fine         Total         Coarse         Fines         1           0         0         3         3         3         36         51         90         1         1			g (g	Tare W	<b>t. =</b> 0.00								
and Tare (grams)         Tare (grams)         Tare Weight (grams)         Opening Size         Retained (grams)         Percent Finer         Percent Retained           189.50         0.00         0.00         1         0.00         100         0					0								
(grams)         (grams)         (grams)         Size         (grams)         Finer         Retained           189.50         0.00         0.00         1         0.00         100         0           #44         6.10         97         3         #10         12.10         94         6           #16         19.90         89         11         #30         44.50         77         23           #40         79.30         58         42         #40         79.30         58         42           #50         123.40         35         65         #100         156.20         18         82           #200         175.60         7.3         92.7         53         90         1           Cobbles         Gravel         Coarse         Fines         Fines         70           0         0         3         3         36         51         90         1         1		Tare				-							
.5       0.00       100       0         #4       6.10       97       3         #10       12.10       94       6         #16       19.90       89       11         #30       44.50       77       23         #40       79.30       58       42         #50       123.40       35       65         #100       156.20       18       82         #200       175.60       7.3       92.7         Fractional Components         Fines         Cobbles         Gravel       Sand       Fines         O       0       3       3       36       51       90       1								Finer Retained					
#4       6.10       97       3         #10       12.10       94       6         #16       19.90       89       11         #30       44.50       77       23         #40       79.30       58       42         #50       123.40       35       65         #100       156.20       18       82         #200       175.60       7.3       92.7         Fractional Components         Fines         Cobbles       Gravel       Sand       Fine       Total       Silt       Clay       Total         0       0       3       3       36       51       90       1       1	189.50	0.00	0.00			_			0				
#10       12.10       94       6         #16       19.90       89       11         #30       44.50       77       23         #40       79.30       58       42         #50       123.40       35       65         #100       156.20       18       82         #200       175.60       7.3       92.7         Fractional Components         Fines         Cobbles       Gravel       Coarse       Medium       Fine       Total       Silt       Clay       Total         0       0       3       3       36       51       90       0       0													
#16       19.90       89       11         #30       44.50       77       23         #40       79.30       58       42         #50       123.40       35       65         #100       156.20       18       82         #200       175.60       7.3       92.7         Fractional Components         Cobbles       Gravel       Sand       Fines         Cobbles       Fine       Total       Coarse       Medium       Fine       Total       Silt       Clay       Technol         0       0       3       3       36       51       90       1       1       1													
#30       44.50       77       23         #40       79.30       58       42         #50       123.40       35       65         #100       156.20       18       82         #200       175.60       7.3       92.7         Fractional Components         Fines         Cobbles       Gravel       Coarse       Medium       Fine       Total       Silt       Clay       Total         0       0       3       3       36       51       90       10       10													
#40       79.30       58       42         #50       123.40       35       65         #100       156.20       18       82         #200       175.60       7.3       92.7         Fractional Components         Fines         Cobbles       Fine       Total       Clay       Total         0       0       3       3       36       51       90       Image: Clay       Total													
#100       156.20       18       82         #200       175.60       7.3       92.7         Fractional Components         Cobbles       Gravel       Fines         Cobbles       Gravel       Coarse       Medium       Fine       Total       Silt       Clay       Total         0       0       3       3       36       51       90       1       1													
#200       175.60       7.3       92.7         Fractional Components         Cobbles       Gravel       Sand       Fines         Cobbles       Fine       Total       Coarse       Medium       Fine       Total       Silt       Clay       Total         0       0       3       3       36       51       90       10       10					#5			35	65				
Fractional ComponentsCobblesGravelSandFinesCoarseFineTotalCoarseMediumFineTotalSiltClayTotal00333365190					#10			18	82				
GravelFinesCobblesGravelTotalCoarseMediumFineTotalSiltClayTotal00333365190111					#20	0 17	5.60	7.3	92.7			1011	
CobblesCoarseFineTotalCoarseMediumFineTotalSiltClayTotal0033336519011		0.2 1	12		Fr	actional C	Componen	its		2.02 plus	N. 71 1994		
CobblesCoarseFineTotalCoarseMediumFineTotalSiltClayTotal00333365190111			Gravel		1		Sand				Fines		
	Cobbles	Coarse			Coar	se Mea	tium l	Fine	Total	Silt	Clay	Total	
D <sub>5</sub> D <sub>10</sub> D <sub>15</sub> D <sub>20</sub> D <sub>30</sub> D <sub>40</sub> D <sub>50</sub> D <sub>60</sub> D <sub>80</sub> D <sub>85</sub> D <sub>90</sub> t	0	0	3	3	3	3	6	51	90			7	
D <sub>5</sub> D <sub>10</sub> D <sub>15</sub> D <sub>20</sub> D <sub>30</sub> D <sub>40</sub> D <sub>50</sub> D <sub>60</sub> D <sub>80</sub> D <sub>85</sub> D <sub>90</sub> U													
	D5	D <sub>10</sub>	D <sub>15</sub>	D <sub>20</sub>	D <sub>30</sub>	D <sub>40</sub>	D <sub>50</sub>	D <sub>60</sub>	D <sub>80</sub>	D <sub>85</sub>	D <sub>90</sub>	D <sub>95</sub>	
0.0885 0.1232 0.1830 0.2713 0.3266 0.3778 0.4372 0.6629 0.8151 1.2484 2.		0.0885	0.1232	0.1830	0.2713	0.3266	0.3778	0.4372	0.6629	0.8151	1.2484	2.6762	
									-li	d			
Fineness C <sub>u</sub> C <sub>c</sub>													



-	ber: 20-11		Grid, Wes	01 511010	10000, 010		iidiiig, i ii				
-	oring 6, san		7 feet								
pth: 5 to 7	feet	-				Sample N	umber: B	oring 6, san	nple 1		
terial Des		-	-					(SP)(FILL)		silt conten	t in the
		*	5 % moist	ure conten	t in the sa	mple per A	STM C56	6(ASTM D	2217).		
	: 4/30/202										
	ed: 5/4/202		L: NA			LL: NA			PI: Non-p	lastic	
	ification: (		(7) C136/AAS	UTO TO7		AASHTO	Classifica	ition: NA			
			/T11 (Met		iter used o	nhy)					
			•			•	l trace sil	t content. 4	2 % silt co	ntent in the	e sample pe
bung item		•	7.35 % mo			-					, particular better
sted By: R	Robert Hill,				-	Test Date		-			
•	: Robert Hi					Title: Ass	istant Lab	Director			
1 E.S.	1997 March				Sieve T	est Data	h sate				S LINK
st #200 Wa	sh Test Wei	ights (gram	s): Dry San		are = 323.4	0					
				t. = 0.00 # <b>200 from v</b>	<b>/ash =</b> 4.2°	%					
Dry Sample		Cumul Pa		Siava	Cumulative Sleve Weight						
Sample and Tare	Tare	Tare W		Opening		-	Percent	Percent			
(grams)	(grams)	(grar		Size		ims)	Finer	Retained			
337.70	0.00		0.00	1		0.00	100	0			
				.5 #4		3.20 12.30	99 96	1 4			
				#1 #1(		12.30	90 94	6			
				#16		34.90	90	10			
				#30		56.70	80	20			
				#4(	) 13	34.80	60	40			
				#50		44.70	28	72			
				#100		38.90	14	86			
		- /12		#200		23.40	4.2	95.8	DOM NO. 25	Deale Vinter of	1. 10 1. 10 1. 10 1.
	1 3 11	10-612 8	12 001-	E.	actional	Compone	115				
Cobbles		Gravel				Sand				Fines	
	Coarse	Fine	Total				Fine	Total	Silt	Clay	Total
0	0	4	4	2		34	56	92			4
	12								·		
D <sub>5</sub>	D <sub>10</sub>	D <sub>15</sub>	D <sub>20</sub>	D <sub>30</sub>	D <sub>40</sub>	D <sub>50</sub>	D <sub>60</sub>	D <sub>80</sub>	D <sub>85</sub>	D <sub>90</sub>	D <sub>95</sub>
0.0777	0.0997	0.1550	0.2051	0.3097	0.3456	0.3819	0.4246	0.5958	0.7154	1.2358	2.2504
Fineness Modulus	cu	cc									
1.99	4.26	2.27									