

HALEY & ALDRICH, INC. 465 Medford St. Suite 2200 Boston, MA 02129 617.886.7400

28 July 2025 File No. 0206711-100

Granby Public Schools 15-B North Granby Road Granby, CT 06035

Attention: Christopher DeGray, Director of Facilities

Subject: Subsurface Conditions and Geotechnical Data Report

Granby Public Schools – Turf Field and Track

Granby, CT

Ladies and Gentlemen:

This Report provides a summary of the subsurface explorations conducted within the limits of the existing synthetic turf field and track for Granby Public Schools (the School) located at 50 North Granby Road in Granby, Connecticut (subject site). The approximate location of the site is shown on Figure 1.

The purpose of the subsurface investigation program conducted within the limits of the existing turf field and track was to obtain information on subsurface conditions encountered at the site, evaluate site fill thickness, and identify presence of potential void spaces within near surface soils. The work reported herein was undertaken by Haley & Aldrich, Inc. (Haley & Aldrich) in accordance with our proposal dated 30 April 2025 and your subsequent written authorization

Existing Site Conditions

Based on historic aerial photographs, the subject site has been used as an athletic field and track since at least 1992. We understand that the current synthetic turf field and track surface was constructed between 2012 and 2013 and that the proposed site grade changes required for construction in the area of observed track settlement were not significantly greater than the existing site grades. Existing site grades are approximately Elevation (El.) 220 to 225 (NAVD88)¹ in the area of the track and athletic field surface.

Settlement has been observed in various areas on the existing track surface and causes puddling after rain events, creating unsatisfactory performance conditions for athletics.

-

¹ Elevations in this report are in feet and reference the North American Vertical Datum of 1988 (NAVD88).

Proposed Development

The School intends to replace the existing synthetic field and track surface within the next 5 years to bring them to performance-level standards for Granby Athletics. Athletic lighting structures are also proposed to support athletic events after sunset.

Subsurface Investigation Programs

PREVIOUS HALEY & ALDRICH SUBSURFACE EXPLORATION PROGRAM

Haley & Aldrich previously performed a subsurface investigation program in October 2022 on the site. The purpose was to observe the subsurface conditions specifically underlying the inside lane track in the northeast corner and evaluate the presence of possible void spaces beneath the track surface resulting in observed surficial settlement. On 20 October 2022, Seaboard Drilling, LLC of Chicopee, Massachusetts conducted a total of seven geoprobes designated HA-1 through HA-7. The drilling of geoprobes were observed by Haley & Aldrich.

The designation and approximate locations of the geoprobes are shown on Figure 2 and geoprobe logs are included in Appendix A.

RECENT SUBSURFACE EXPLORATION PROGRAM

The purpose of the recent subsurface investigation program was to collect data beneath the existing turf field and track that may indicate future areas of settlement. Explorations were not performed to support the athletic lighting structures at this time.

The designation and approximate location of subsurface explorations are indicated on Figure 2. The recent subsurface explorations were located in the field by Haley & Aldrich personnel by measuring from existing site features and therefore are considered approximate.

Between 23 and 25 June 2025, G&M Subsurface of North Dighton, Massachusetts conducted a total of twenty-seven (27) geoprobe explorations within the limits of the existing synthetic turf field and track, designated GP-01 through GP-27. GeoSurfaces of Woburn, Massachusetts performed the opening and repair of the synthetic turf surfaces at each of the geoprobe locations on the existing field. The geoprobes were drilled to depths ranging from 10 to 20 (feet) ft below ground surface (bgs) with the use of a track-mounted geoprobe rig and were observed by Haley & Aldrich. Refer to the Geoprobe Logs included in Appendix B for additional information.



Subsurface Conditions

SOIL CONDITIONS

Subsurface soil conditions encountered in the recent subsurface exploration program consisted of the following generalized sequence of subsurface units, listed in descending order of occurrence below ground surface. Refer to Table I – Summary of Subsurface Conditions for a summary of the explorations performed in 2022 and 2025.

Table I: Summary of Subsurface Conditions

Generalized Subsurface	Depth Top of Stratum	Stratum Thickness
Stratum	(ft)	(ft)
Fill	0.3 to 1	0.4 to 15
Glaciofluvial Deposits	0.5 to 13	Not Determined

Note: one or more of the units may be absent at any specific location and may vary in thickness across the subject site. A detailed description of the units encountered is provided below.

<u>Fill</u> - The Fill encountered generally consisted of dark to light brown, red-brown, or gray-brown poorly-graded Sand or silty Sand with varying amounts of silt, gravel, topsoil, wood, and organic soil. At the recent geoprobe locations GP-03, GP-05, GP-13, GP-22, the fill noted buried wood and pockets of dark brown organic soil (topsoil) between 0.5 and 5 ft bgs.

The Fill layer was encountered in each of the geoprobes, except for GP-01, GP-06, and GP-08, and ranged from 0.4 to 15 ft in thickness. A 0.5-ft-thick layer of crushed stone was encountered at ground surface at the locations of geoprobes conducted within the existing synthetic turf field. An approximate 0.1-ft-thick layer of track rubber followed by about 0.4 to 0.5-ft-thick layer of crushed stone was encountered at ground surface at the locations of geoprobes conducted within the limits of the existing track.

The Fill layer was not fully penetrated at geoprobe GP-22 and HA-5 to a depth of 10 ft and at HA-6 to a depth of 15 ft.

<u>Glaciofluvial Deposits</u> - Glaciofluvial Deposits were encountered beneath the Fill at each geoprobe location except for geoprobes GP-01, GP-06, and GP-08 where the Glaciofluvial Deposits were encountered underlying the crushed stone. Glaciofluvial Deposits generally consisted of tan to light brown or red-brown poorly-graded Sand. Glaciofluvial Deposits were not fully penetrated at any of the geoprobe locations.



Granby Public Schools 28 July 2025 Page 4

GROUNDWATER LEVELS

Groundwater was not encountered within the geoprobes at the time of drilling.

Groundwater levels are influenced by precipitation, the presence of below-grade structures and utilities in the area, leakage into or out of utility pipes, the infiltration of surface water runoff, building underdrain systems, localized water recharging, and other factors. Groundwater conditions encountered during subsequent site visits and/or during construction may differ from those reported herein, and as additional groundwater measurements are obtained during subsequent design phases, this report will be updated.

Geotechnical Mitigation Considerations

Since areas of settlement have been observed within the turf field, the School has been performing routine maintenance consisting of a subcontractor removing the turf surface and filling in localized low spots. Additionally, the northeast corner of the track that was previously observed to experience settlement was patched and resurfaced between 2022 and 2023.

Of the recent geoprobe explorations, locations GP-03, GP-05, GP-13, GP-22 encountered buried wood and pockets of dark brown organic soil (topsoil) between 0.5 and 5 ft bgs within the Fill layer. These locations are spread out across the track and field and are not located in one central area, suggesting that other locations or areas between explorations may encounter similar conditions subject to future settlement.

Full-Depth Restoration (recommended)

To mitigate the risk of future settlement, we recommend that a full depth restoration of the field and track surface be performed prior to replacement of the surfaces. Full depth restoration shall include:

Site Preparation

- Strip, remove, and dispose of existing rubber track surface and synthetic turf field and crushed stone subbase.
- Excavate and remove the full depth of Fill up to a 5 ft depth beneath the track and field and 5 ft
 laterally outside the limits of the track. Within the limits shown on Figure 2, the northeast
 corner of the track is recommended to be excavated and removed up to 10 ft due to presence of
 deeper Fill materials that are unsuitable for subbase of the track.
- Segregate/screen/stockpile excavated Fill materials that are suitable for re-use as compacted granular fill beneath the track and field surface. Remove and dispose of unsuitable Fill material (buried topsoil, organic materials, wood, etc).
 - Reuse of any excavated soils will be dependent upon visual characterization of the materials and results of grain size analyses and laboratory compaction tests. Accordingly, we recommend to



the extent possible that an on-site location be established for segregating, processing, and stockpiling excavated soils.

Subgrade Preparation

- After the Fill has been excavated, the subgrade shall be compacted to 95% of the material's
 maximum dry unit weight (determined in accordance with ASTM D1557) using appropriate
 compactive efforts. As a minimum, the subgrade should receive four complete coverages with
 suitable compaction equipment. The excavated material may be reused after the wood or
 degradable materials are removed from the Fill material.
- Place a woven geotextile fabric (Mirafi 600X or similar) on top of the prepared and approved subgrade as well as on the sides of the excavation.
- The excavation shall be backfilled with previously excavated Fill material suitable for re-use or Granular Fill placed in loose lift thicknesses not exceeding 12 inches (in.), and the material shall be compacted to 95% of the material's maximum dry unit weight (determined in accordance with ASTM D1557) using appropriate compactive efforts. As a minimum, each layer of fill should receive four complete coverages with suitable compaction equipment.

Following backfill and compaction to design subgrade elevation, re-construct the track and field. Refer to recommendations in following sections.

Synthetic Turf Field

- Following completion of subgrade preparation to design subgrade elevation for the new turf
 system, prepare the subgrade using a large compaction roller to prepare a firm, dry and stable
 subgrade. If during static rolling of the subgrades pumping or weaving conditions are observed,
 alternative compaction techniques may be required and/or additional subgrade preparation
 may be recommended (e.g., removal and replacement of soft, compressible soils).
- At all times prior to placement of the turf system, we recommend maintaining a dry and
 undisturbed design subgrade to ensure a stable working surface to receive the turf system.
 Temporary re-grading outside the limits of the new field will be required to divert surface runoff
 away from the work areas. Construction dewatering is not anticipated; however, if it becomes
 necessary, efforts should be taken by the contractor to discharge dewatering effluent to an onsite recharge system at distances away from the work areas so as not to disturb subgrade
 preparation.
- For the permanent condition, the maintenance, protection and long-term performance of the synthetic turf field will require an effective stormwater runoff collection and management system. Anticipated subsurface soils at and/or within shallow depths of the anticipated design subgrade level for the new synthetic turf fields are likely to consist of fine-grained sandy silts/silty sands that have poor drainage characteristics vertically and laterally. Design of any sub-turf drainage systems must consider the effect these impermeable subgrade soils can have on the field's drainage capacity. At a minimum, the sub-turf drainage systems must be designed



such that the system is entirely and at all times above groundwater level. Design of the drainage system for the synthetic turf should be completed by a Civil Engineer. For this report, we recommend the subgrade be pitched to direct drainage towards the sub-turf drainage system that would be comprised of a minimum 10 to 12-in. thick layer of double-washed, 3/4-in. crushed stone with perforated HDPE pipes that are sized by the Civil Engineer and embedded within the crushed stone so as to effectively collect and transport by gravity any accumulated runoff water that filters from the turf layer above to an appropriately sized on-site collection/groundwater recharge tank or, alternatively, direct the discharge into a permitted storm drain. Prior to placing the crushed stone and perforated piping, a woven geotextile fabric (Mirafi 600X or similar) should be placed on top of the prepared and approved subgrade. Additionally, a backflow preventer at the outlet structure should be incorporated into the design of the drainage system.

• 3/4-in Crushed Stone shall consist of inert angular material derived from a stone quarry that is hard, durable, washed stone or crushed gravel, free from clay, loam, or other deleterious material, with a maximum size of 3/4 in, and conforming to the following:

Sieve Size	Percent Passing By Weight
1 in.	100
3/4 in.	90 – 100
1/2 in.	10 – 50
3/8 in.	0 – 20
No. 4	0 – 5

Synthetic Track

- Following preparation to subgrade elevation, provide a minimum 12-in. layer of Granular Fill for the subbase of the asphalt. Asphalt and rubberized track surface thickness should match original design drawings.
- Granular Fill shall be obtained from off-site sources and shall consist of naturally occurring or
 processed, inert material that is hard, durable natural stone and coarse sand, free from loam,
 clay, surface coatings, and deleterious materials.

Sieve Size	Percent Passing By Weight
3 in.	100
No. 4	30 – 90
No. 40	10 – 50
No. 200	0-8



Granby Public Schools 28 July 2025 Page 7

If portions of the proposed track extend beyond the existing plan limits of the existing track, we
recommend complete removal of the existing topsoil prior to compacting the subgrade and
placement and compaction of a minimum 12-in. thick lift of granular fill to design subgrade
elevation.

Track and Field Surface Restoration (alternate consideration with routine maintenance)

If project construction costs associated with the recommended over-excavation and backfilling are determined to not be acceptable to the School, the reduced scope of track and field surface restorations could be considered by the School as an alternate consideration that would not require the subgrade preparation in the full-depth restoration recommendation. This option would not mitigate the risk of potential long term field performance issues due to the presence of the remaining unsuitable soils below the over-excavation limits but could allow the track and field to be utilized in the short term and would require periodic maintenance of both the synthetic turf field and track.

For this consideration, the track and field surface restoration would consist of:

- Remove/mill track surface down to asphalt base layer, patch observed cracks and shim depressions in the asphalt, and replace with new synthetic track surface/system.
- Remove synthetic turf surface/carpet, raise grade with additional crushed stone where needed, and replace with new synthetic turf surface. Prior to installing the new synthetic turf, the existing drainage stone should be tested to confirm design infiltration rate of the drainage layer is consistent with the synthetic turf field provider's requirements. Additionally, an inspection of the existing drainage piping (lateral field and perimeter drain lines) should be completed to confirm the drainage system is functioning as originally designed and meets stormwater management requirements for the new turf field system.
- Surface track and synthetic turf surface restoration should be conducted by a specialty contractor familiar with the construction and repair of synthetic turf and track systems.

Limitations

This letter was prepared in accordance with our proposal dated 30 April 2025 and your subsequent written authorization. This letter has been prepared for the specific application to the Granby Public Schools synthetic turf field and track.

The nature and extent of variations in the subsurface conditions between explorations may not become evident until construction, and the project design may change from our current understanding. Any additional information pertaining to the project that becomes available should be provided to Haley & Aldrich, so that our conclusions and recommendations can be reviewed and modified, as necessary.



Granby Public Schools 28 July 2025 Page 8

We appreciate the opportunity to provide engineering services on this project. Please do not hesitate to call if you have any questions or comments.

Sincerely yours,

HALEY & ALDRICH, INC.

Megan H. Carlson, PE (NY)

Megan H. Carlson

Project Manager

R. Scott Goldkamp, PE (MA/NH)

Principal

Attachments:

Figure 1 – Site Locus

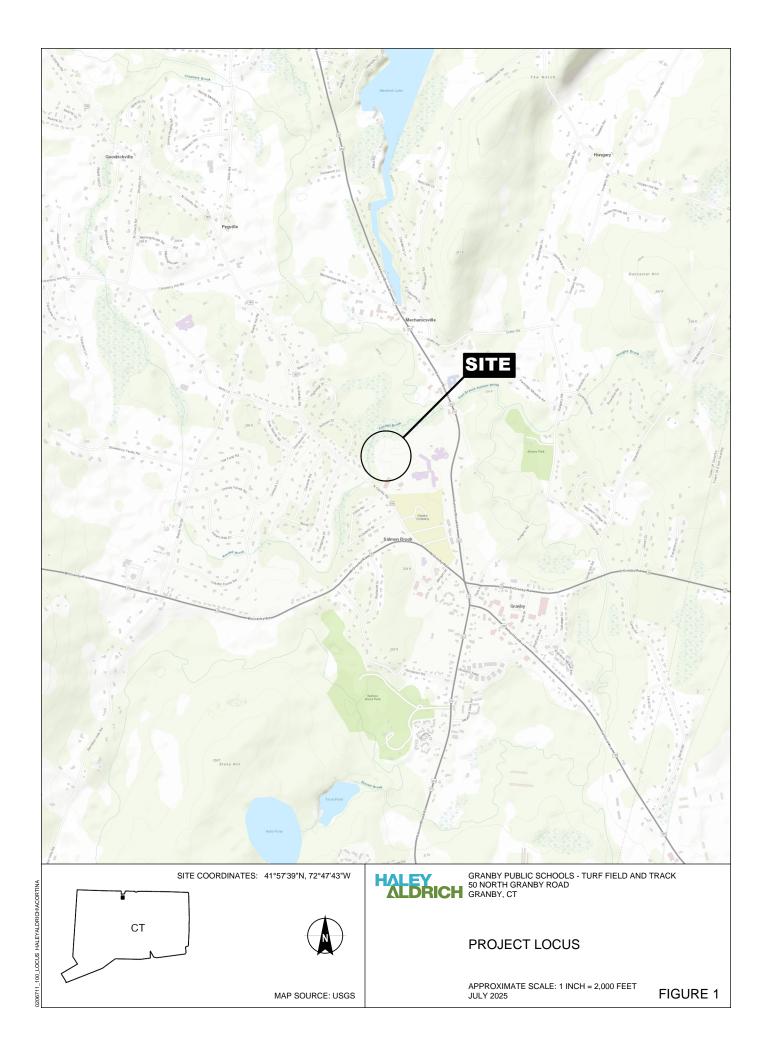
Figure 2 – Site and Subsurface Exploration Location Plan

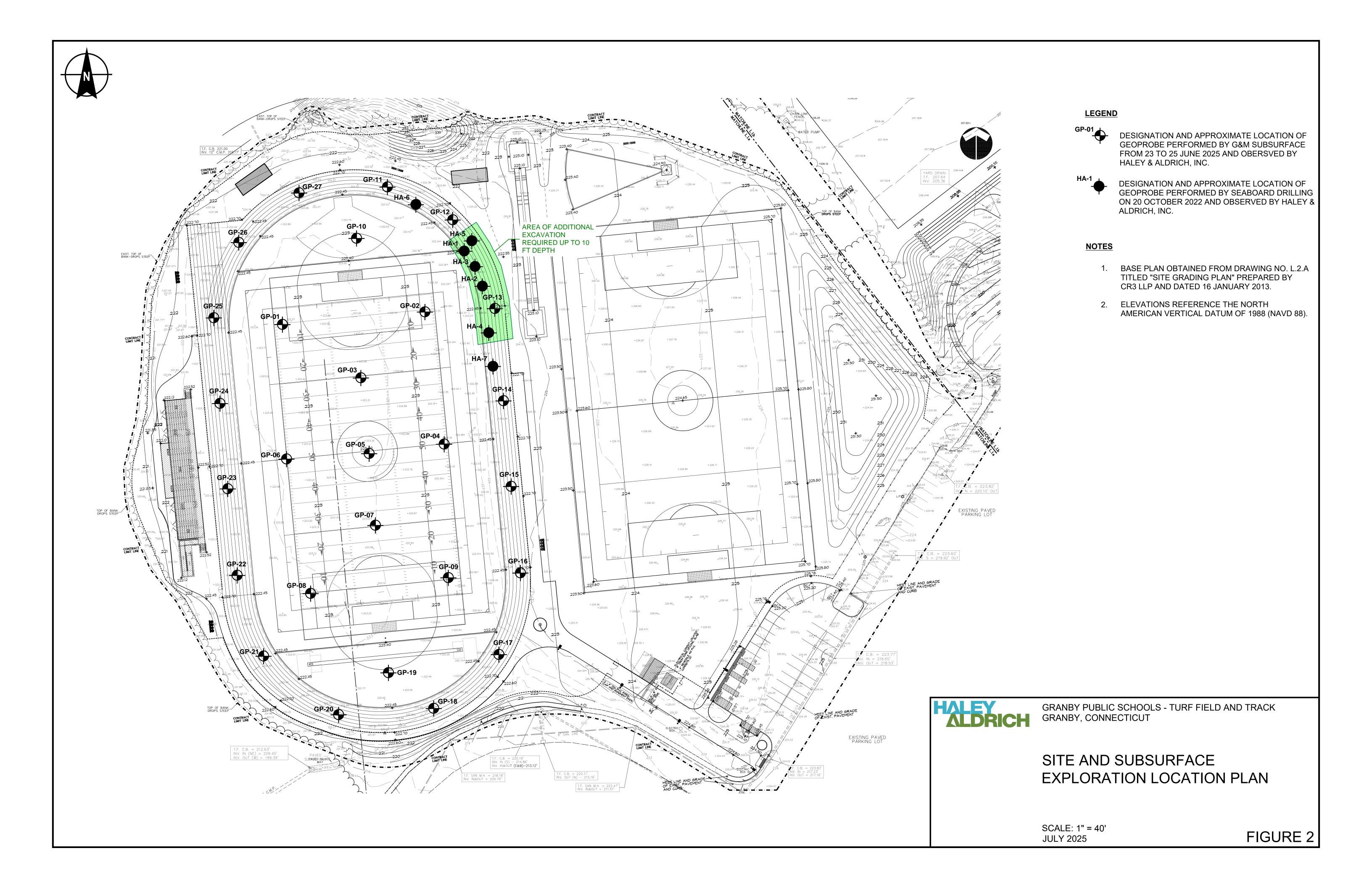
Appendix A – Previous Geoprobe Logs

Appendix B – Recent Geoprobe Logs

\haleyaldrich.com\share\CF\Projects\0206711\Granby Public Schools\Report\2025-0728-HAI-Granby Public Schools-Geotechnical Data Report-F.docx







APPENDIX A Previous Geoprobe Logs

IDENTIFICATION AND DESCRIPTION OF SUBSURFACE MATERIALS

Hard

SOIL

Soil description on logs of subsurface explorations are based on Standard Penetration Test results, visual-manual examination of exposed soil and soil samples, and the results of laboratory tests on selected samples. The criteria, descriptive terms and definitions are as follows:

DENSITY OR CONSISTENCY

Density of Cohesionless Soils	Penetration Resistance (Blows per ft.)	Consistency of Cohesive Soils	Penetration Resistance (Blows per ft.)
Very Loose	0-4	Very Soft	0-2
Loose	5-10	Soft	3-4
Medium	11-30	Medium	5-8
Dense	31-50	Stiff	9-15
Very Dense	over 50	Very Stiff	16-30
-		Hard	over 30

PENETRATION RESISTANCE

Standard Penetration Test (ASTM D-1586) - Number of blows required to drive a standard 2 in. O.D. split spoon sampler 1 ft. with a 140 lb. weight falling freely through 30 in.

COLOR: Basic colors and combinations: black, brown, gray, vellow-brown, etc.

SUPPLEMENTAL SOIL TERMINOLOGY:

- 0 to 1/16 in. thick (cohesive) I aminae Parting - 0 to 1/16 in. thick (granular) - 1/16 to 1/2 in. thick Seam

- 1/2 to 12 in thick Layer Stratum - > 12 in. thick

Pocket - Small, erratic deposit less than 12 in. size Lens - Lenticular deposit larger than a pocket Occasional - One or less per 12 in. of thickness - More than one per 12 in. of thickness Frequent Interbedded - Alternating soil layers of differing composition

- Alternating thin seams of silt and clay Varved Mottled - Variation of color

GEOLOGIC INTERPRETATION

Deposit type - GLACIAL TILL, ALLUVIUM, FILL....

The natural soils are identified by criteria of Unified Soil Classification System (USCS), with appropriate group symbol in parenthesis for each soil description. Fill materials may not be classified by USCS criteria.

U.S. Standard Series Seive Clear Square Sieve Openings 12" 3" 3/4" 10 40 200 Gravel Sand Cobbles **Boulders** Silts and Clavs Coarse Fine Coarse Medium Fine 305 mm 76 mm 19 mm 4.75 mm 2.00 mm 0.43 mm 0.074 mm

UNIFIED SOIL CLASSIFICATION SYSTEM

Coarse grained soils: Coarse grained soils: More than half of coarse fraction is larger than number 4 sieve Coarse grained soils: More than half of coarse fraction is larger than number 4 sieve Coarse grained soils: More than half is larger than number 200 sieve Coarse grained soils: Sands Sands Sands with little or no fines Gravels with over 12% fines Gravels with over 12% fines Sands Sands with little or no fines Sands Sands with little or no fines Gravels with over 12% fines Sands Sands with little or no fines Sands Sands with little or no fines GR Poorly graded gravels, proorly graded gravel-sand-silt mixtures Well graded sands, gravelly sands SW Well graded sands, gravelly sands SW Silty sands, poorly graded sand-silt mixtures SILty sands, poorly graded sand-silt mixtures SILty sands or clayey silts with slight plasticity Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity CL Clayes sands or clayes silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity CL Clayes sands or clayes silts and very fine sands, rock flour, silty or clayes, sandy clays, slight plasticity CL Clayes sands or clayes silts with slight plasticity CL Clayes sands or clayes silts with slight plasticity CL Clayes sands or clayes silts value of law plasticity CREATER OF THE COARSE AND	MAJOF	R DIVISIONS		Group Symbol	Graphi Symbo	
Coarse grained soils: Coarse grained soils: Coarse grained soils: Coarse grained soils: Silty gravels, poorly graded gravel-sand-silt mixtures		Gravels	Gravels with	GW		Well graded gravels, gravel-sand mixtures
than number 4 sieve than number 4 sieve than number 4 sieve than number 4 sieve Sands Sands with little or no fines More than half of coarse fraction is smaller than number 4 sieve Sands with over 12% fines Sands with little or no fines Sands with over 12% fines Sands with little or no fines Sands with over 12% fines Sands with little or no fines Sands with over 12% fines Sands with over 12% fines Sands with little or no fines Sands with over 12% fines Sands or clayey silts with slight plasticity Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays Sands or clayey silts with slight plasticity CL // Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays			little or no fines	GP		Poorly graded gravels, gravel-sand mixtures
sieve over 12% fines GC Clayey gravels, poorly graded gravel-sand-clay mixtures Well graded sands, gravelly sands SP Poorly graded sands, gravelly sands SP Clayey sands, poorly graded sand-silt mixtures SM Silty sands, poorly graded sand-silt mixtures SC Clayey sands, poorly graded sand-clay mixtures SC Clayey sands, poorly graded sand-clay mixtures SC Clayey sands, poorly graded sand-clay mixtures Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	9		-,	GM		Silty gravels, poorly graded gravel-sand-silt mixtures
is larger than number 200 sieve More than half of coarse fraction is smaller than number 4 sieve Sands with little or no fines Sands with little or no fines SP Poorly graded sands, gravelly sands Silty sands, poorly graded sand-silt mixtures SC Clayey sands, poorly graded sand-clay mixtures Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	555.	sieve	over 12% fines	GC		Clayey gravels, poorly graded gravel-sand-clay mixtures
More than half of coarse fraction is smaller than number 4 sieve Sands with over 12% fines Silts and Clays Fined-grained soils: More than half of coarse fraction is smaller than number 4 sieve Sands with over 12% fines Scands with over 12% fines Scan	is larger	Sands		sw		Well graded sands, gravelly sands
Fined-grained soils: Sands with over 12% fines Silty sands, poorly graded sand-silt mixtures Clayey sands, poorly graded sand-clay mixtures Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays			or no fines	SP		Poorly graded sands, gravelly sands
Tined-grained soils: Number 4 sieve 12% fines SC Clayey sands, poorly graded sand-clay mixtures		fraction is		SM		Silty sands, poorly graded sand-silt mixtures
Fined-grained soils: Silts and Clays Silts and Clays Liquid limit 50% or less ML			12% fines	sc		Clayey sands, poorly graded sand-clay mixtures
Fined-grained soils: Liquid limit 50% or less Liquid limit 50% or less CL // Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays		Silte	and Clave	ML		
Solis.			•	CL		
more than half		Elquia IIII	MK 3070 01 1000	OL		Organic clays and organic silty clays of low plasticity
smaller than number 200 Silts and Clays MH Inorganic silty, micaceous or diatomaceous fine sandy or silty soils, elastic silts	smaller than	Silts	and Clavs	МН		Inorganic silty, micaceous or diatomaceous fine sandy or silty soils, elastic silts
sieve Liquid limit greater than 50% CH Inorganic clays of high plasticity, fat clays			•	СН		Inorganic clays of high plasticity, fat clays
OH Organic clays of medium to high plasticity, organic silts				ОН		Organic clays of medium to high plasticity, organic silts

GENERAL NOTES

1. Logs of subsurface explorations depict soil, rock and groundwater conditions only at the locations specified on the dates indicated. Subsurface conditions may vary at other locations and at other times.

Highly organic soils

2. Water levels noted on the logs were measured at the times and under the conditions indicated. During test borings, these water levels could have been affected by the introduction of water into the borehole, extraction of tools on other procedures and thus may not reflect actual groundwater level at the test boring location. Groundwater level fluctuations may also occur as a result of variations in precipitation, temperature, season, tides, adjacent construction activities and pumping of water supply wells and construction dewatering systems.

PT Peat and other highly organic soils

ROCK

Rock descriptions noted on logs of subsurface explorations are based on visual-manual examination of exposed rock outcrops and core samples. The criteria, descriptive terms and definitions used are as follows:

FIELD HARDNESS: A measure of resistance to scratching.

Cannot be scratched with a knife point Very Hard

or sharp pick.

Can be scratched with a knife point or

sharp pick, only with difficulty.

Can be readily scratched with a knife Moderately Hard

point or pick.

Medium Hard Can be grooved or gouged 1/16 in. deep with firm pressure on a knife point or

sharp pick.

Soft Can be grooved or gouged easily with a

knife point or pick.

Very Soft Can be carved with a knife and excavated

with a pick point.

WEATHERING: The action of organic and inorganic and chemical

and physical processes resulting in alteration of

color, texture and composition.

Fresh-FR No visible sign of alteration, except

perhaps slight discoloration on major discontinuity surfaces.

Slight-SL Discoloration of rock material and discontinuity surfaces. All rock may be

discolored and/or somewhat weaker

than in its fresh condition.

Moderate-MOD Less than half the rock material is decomposed

and/or disintegrated to a soil. Some fresh or discolored rock is present as either a continuous

framework or as corestones.

More than half the rock material is High-HIGH

decomposed and/or disintegrated to a soil. Fresh or discolored rock is present as either a discontinuous framework or as corestones.

Complete-COMP All rock material is decomposed and/or

disintegrated to soil. The original mass

structure is largely intact.

Residual Soil All rock material is converted to soil. The mass

structure and material fabric are destroyed. There has been a large change of volume, but the material has not been significantly

Individual grains invisible to the unaided eye.

transported.

COLOR: Basic colors and combinations: gray, light gray, brown,

Aphanitic

TEXTURE: Size, shape and arrangements of constituents.

<u>Size</u> Term Ianeous Sedimentary > 2 mm Coarse-grained > 5 mm 0.625 - 2 mm Medium-grained 1 - 5 mm < 0.625 mm Fine-grained < 1 mm

LITHOLOGY: Rock classification and modifiers; accepted formation names.

DISCONTINUITIES:

Type

Joint A natural fracture along which no

displacement has occurred. May occur in parallel groups called sets.

Shear A natural fracture along which displacement has occurred. Surface

may be slickensided or striated.

A natural fracture along which Fault

displacement has occurred. Usually lined with gouge and slickensides.

Shear or Fault Zone of fractured rock and gouge Zone

bordering the displacement plane.

ORIENTATION/ATTITUDE:

Term	Angle (degrees)
Horizontal	0-5
Low Angle	6-35
Moderately Dipping	36-55
High Angle	56-85
Vertical	86-100

SPACING:

Discontinuity Term	Bedding Term	Inches
Extremely Close	Extremely Thin	< 3/4
Very Close	Very Thin	3/4 - 2.5
Close	Thin	2.5 - 8
Moderate	Medium	8 - 24
Wide	Thick	24 - 80
Very Wide	Very Thick	80 - 240
Extremely Wide	Extremely Thick	> 240

PERSISTENCE/CONTINUITY: APERTURE/GAP:

Term	Feet	Term	Distance
Very Low	0-3	Very Tight	< 0.1mm
Low	3-10	Tight	0.1mm-0.25mm
Medium	10-35	Partly Open	0.25mm-0.5mm
High	35-65	Open	0.5mm-2.5mm
Very High	> 65	Moderately Wide	2.5mm-1cm
		Wide	> 1cm
		Very Wide	1cm-10cm
		Extremely Wide	10cm-1m

Cavernous

> 1m

POROSITY:

Type

Primary:

Pre-depositional and depositional inter- and intra- granular, particle, or crystalline pores.

Secondary:

Solution features including pits, vugs, caverns, molds, and channels. Fracture features including joints, shears, faults, shrinkage and breccia fabrics.

> Term Size Micro < 0.0625 mm Meso 0.0625-4.0 mm Mega 4.0-256 mm



SUBSURFACE EXPLORATION KEY

Н		PRIC	Н			GE	OP	ROBE REPOR	T				Во	rin	g N	No.		Н	A- 1	<u> </u>
Proj Clie Cor	-	R.	A.D. S	Y HIGH S SPORTS ard Drillin		OL TRACK	, 54	N GRANBY RD, GRANE	Y CT			St St	le N neet art nish	No). 1 C	206 of octol	1 ber	20,	202	
				Casing	Samp	oler Barre	el	Drilling Equipmen	t and P	rocedures			iller			1. Ke		20,	202	
Туре	е				G			Rig Make & Model: Geo	•	620		Н	&A F	Rep). J	. Sh	aw			
Insid	de Dia	meter	(in.)		1.5	5		Bit Type: Geoprobe Sp Drill Mud: None	oon				eva atun			22.0 IAVI				
Ham	nmer \	Neight	(lb)		Aut	to -		Casing: Push	4:			\vdash	cat			ee F				
Han	nmer I	Fall (in	ı.)			-		Hoist/Hammer: - Auton PID Make & Model: Not		immer										
ft)	Blows in.	No.	£ e	(ft)	Symbol	v	/ISUA	L-MANUAL IDENTIFICATIO	N AND [DESCRIPTION		-	avel	_	San	d			eld ΄	Те
Depth (ft)	ler B r 6 ir	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	Syr	(Dens	ity/consistency, color, GROL	JP NAME	E & SYMBOL,		Coarse	_ e	Coarse	Medium	<u>_</u>	Fines	Dilatancy	Toughness	icity
De	Sampler I per 6 i	Sam & R¢	Sa	ie√r Sie√r	nscs		S	tructure, odor, moisture, opt GEOLOGIC INTERPR	onal des ETATIO	criptions N)		% C	% Fine	% Co	% Me	% Fine	% Fin	Oilate	Long	Plasticity
0 -	U)	G1	0.0	221.9				-TRACK RUBB	ER-			Ħ						=		Ē
		42	5.0	0.1 221.4 0.6	SW	Grow to are	ny hra	-ASPHALT- wn well-graded SAND with		SIMA no otmiction	re re	5	10	10	20 15	55		\dashv	\dashv	_
				3.5	SP	odor, dry	ıy-bro	wii well-graded SAND With	graver (S	ovv), no structu	e, 110		15	10	15	συ				
								- FILL -												
						Light red-bi		to tan poorly-graded SAND	(SP), no	structure, no c	dor,									
						moist, trace	e orga	ai iios												
5 -		G2	5.0	1	SM	•		an SAND (SM), no structure	, no odo	r, wet, wood fra	gments,		10	10	20	45	15			
		36	10.0			trace organ	IICS													
					SM	Grav to ora	y-bro	own silty SAND (SM), no stru	icture n	o odor. moist ti	race		10	15	20	30	25			
10 -					Jivi	, ,	•	, trace organics		,										
10		G3 36	10.0 15.0																	
			10.0	211.0 11.0	SP		n to ta	an poorly-graded SAND with	gravel (SP), no structu	re, no	5	10	10	20	55		\dashv	\dashv	
						odor, wet														
								- GLACIOFLUVIAL DI	EPOSITS	S -										
15 -				207.0				BOTTOM OF EXPLORA	TION 15	0 FT			-						4	_
				10.0				DOTTOW OF EAFLORA	. 1011 13											
		10/	ater !	evel Data				Cample ID	\\\	ell Diagram			<u> </u>	21155	ıma	n,				_
	_4		ГІ	psed	Depth	n (ft) to:	_+	Sample ID O - Open End Rod		Riser Pipe	Over	hur				<u>ry</u> 15				_
 	ate	Time		hr Bo	ottom Casing	Bottom of Hole Wa	ter	T - Thin Wall Tube		Screen Filter Sand	Rock			•	•		1.0			
								U - Undisturbed Sample S - Splitspoon Sample	۰ qi ه	Cuttings Grout	Sam			•	•		G3	3		
								G - Geoprobe	4 A	Concrete	Bori	ing	No	ο.			Н	A-1		
Field	d Tests	: ::				Rapid S - Slo			ity: N -	Bentonite Sea Nonplastic L -	Low M - N	Medi	um	Н-	High	1				_
ielo	d Tests	s:				Rapid S - Slo - Low M - Me			ity: N - rength:	Nonplastic L - N - None L - Lo	Low M - N w M - Me	Viedi ediur	um n H	H - I - H	High igh	ا ۷ - ۷	/ery	High	1	_

HAL	EY DRIC	Н				GEO	PROBE REPORT Boring No.	HA-2
Project Client Contrac	R.A	A.D. S	/ HIGH S PORTS rd Drillin		OL 7		er 20, 2022	
		(Casing	Samp	oler	Barrel	Drilling Equipment and Procedures Finish October Driller M. Ker	er 20, 2022 n
Type Inside Di Hammer	Weight	(lb)		Rig Make & Model: Geoprobe 6620 H&A Rep. J. Sha Bit Type: Geoprobe Spoon Elevation 222.0 Drill Mud: None Datum NAVD Casing: Push Hoist/Hammer: - Automatic Hammer	(est.) 38			
Hammer		.)				-	PID Make & Model: Not used	T = = .
Depth (ft) Sampler Blows	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	AL-MANUAL IDENTIFICATION AND DESCRIPTION Isity/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION) Gravel Sand 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Dilatancy Toughness Plasticity Strength		
- 0 -	G1	0.0	221.9				-TRACK RUBBER-	
-	42	5.0	0.1 221.4 0.6	SW SP	odo Lig	or, dry	-ASPHALT- Town well-graded SAND with gravel (SW), no structure, no tan poorly-graded SAND with gravel (SP), no structure, no	
- 5	G2 24	5.0 10.0	_	CL SP	org Re dry	ganics, trace ed-brown to I /	ndy lean CLAY (CL), no structure, no odor, moist, trace wood, appears disturbed ight brown poorly-graded SAND (SP), no structure, no odor, vancing geoprobe sleeve, observed little to no resistance	0
					bet	tween 5.4 to		
							- FILL -	
			212.0	SP	Tai	n to light bro	own poorly-graded SAND (SP), no structure, no odor, dry 10 15 20 55	
- 10 -	G3 42	10.0 15.0	10.0	SP	Lig	ht brown to	tan poorly-graded SAND (SP), no structure, no odor, moist 10 15 30 45 -GLACIOFLUVIAL DEPOSITS-	
- 15			207.0 15.0				BOTTOM OF EXPLORATION 15.0 FT	
Date	W:	Flan	(hr \ Bo	Depth	Botto	om Water	Sample ID Well Diagram O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample Well Diagram Riser Pipe Screen Filter Sand Filter Sand Cuttings Cuttings Samples Overburden (ft) 15.0 Rock Cored (ft) 0.0 Samples	
							Grout Grout Concrete Boring No.	HA-2
Field Tes	ts:					d S - Slow v M - Mediur		ry High

H	ALE	PRIC	н			G	EOF	PROBE REPOR	Т			Bo	rin	g N	lo.		Н	A- 3	3			
Proje Clier	ect	GR R.	A.D. S	Y HIGH S PORTS rd Drillin	Orilling								File No. 0206711-000 Sheet No. 1 of 1 Start October 20, 2022 Finish October 20, 2022									
				Casing	Samp	oler Ba	ırrel	Drilling Equipmen	t and Procedures		1	iller			l. Ke		20,	202				
Туре)				G			Rig Make & Model: Geo	•		Н	&A F	₹ер	. J.	Sh	aw						
Hamı	mer V	meter Veight Fall (in	(lb)		Bit Type: Geoprobe Spoon 1.5 Auto - Casing: Push Hoist/Hammer: - Automatic Hammer - PID Make & Model: Not used						Da	eva atun ocati	1	N.	22.0 AVI ee F	D88						
	NS N	o 🗇		(L	 		\/ICI I				Gr	avel	5	Sano	t		Fi	eld	Te:			
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		(Dens	AL-MANUAL IDENTIFICATIO sity/consistency, color, GROL structure, odor, moisture, opti GEOLOGIC INTERPR	JP NAME & SYMBOL, ional descriptions		% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines		SS	Plasticity			
0 +	0)	G1	0.0	221.9		\		-TRACK RUBB	ER-	/	F								=			
		36	5.0	0.1 221.4 0.6	SW SP	odor, dry		-ASPHALT- own well-graded SAND with an poorly-graded SAND (SP	gravel (SW), no structu	,	5			20 20								
5 —					SP	J		orown poorly-graded SAND (,					20								
		G2 36	5.0 10.0		SP	Tan to lig	ght brov	wn poorly-graded SAND (SP -FILL-), no structure, no odoi	, dry		10	15	20	55							
10 —		G3 36	10.0 15.0	212.5 9.5 - 212.0 10.0	SM SP	•		y SAND (SM), no structure, r an poorly-graded SAND (SP - GLACIOFLUVIAL DE), no structure, no odor	, moist				20 30	40 55	40						
15 —				207.0 15.0				BOTTOM OF EXPLORA	TION 15.0 FT													
Da	ate	Wa Time			Depth ottom I	n (ft) to: Bottom of Hole	/ater	Sample ID O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	Well Diagram ☐ Riser Pipe ☐ Screen ☐ Filter Sand ☐ Cuttings ☐ Grout ☐ Concrete	Over Rock Sam	Co ples	den ored	(ft		15	.0 G3	A-3					
				Dilatano	w P F) 	Ol N	I None Plastic	Bentonite Se city: N - Nonplastic L -	al	_			Hiah	1				—			
Field												uill	11-									

HALE	Y DRIC	Н				GEO	PROBE REPOR	Г		Boring No. HA-4											
Project Client Contracto	R.A	A.D. SI	' HIGH S PORTS d Drillin								File No. 0206711-000 Sheet No. 1 of 1 Start October 20, 2022 Finish October 20, 2022										
			Pasing Sampler Barrel Drilling Equipment and Procedures								ıısn Iler			icto I. K		20,	202	22			
Туре				G Rig Make & Model: Geoprobe 6620 Bit Type: Geoprobe Spoon						Н8	A F	Rep	. J.	. Sh	aw						
Inside Dia	meter ((in.)		1.5	5		Bit Type: Geoprobe Spo Drill Mud: None	oon			evat tum) (e D88	est.))				
Hammer \	Veight	(lb)							-		cati				Plar						
Hammer I	all (in.	all (in.) PID Make & Mod																			
Sampler Blows per 6 in.	No.	æ (£)	Stratum Change Elev/Depth (ft)	Symbol		VISU	IAL-MANUAL IDENTIFICATIO	N AND DESCRIPTION	- t		vel		Sand	d			ield တွ	Tes	st		
Depth (ft) ampler Blov per 6 in.	ec. (Sample Depth (ft)	tratur hang Dept	S Syl		(Der	nsity/consistency, color, GROL			% Coarse	Fine	Coarse	Medium	ne	Fines	Dilatancy	Toughness	icity			
Samp Pe	Sample No. & Rec. (in.)	S e	Elev/	nscs			structure, odor, moisture, opti GEOLOGIC INTERPR			ŏ %	% Fi	ŏ %	W %	% Fine	% Fi	Dilat	Toug	Plasticity			
0	G1	0.0	221.9				-TRACK RUBB	ER-											Ē		
	30	5.0	0.1 221.4 0.6	SW SP	Gra	v to grav-b	-ASPHALT- rown well-graded SAND with	aravel (SW), no structure, n	_1	5	10 10	10 15	20 20	55 55					Ī		
					odo	r, dry	oorly-graded SAND (SP), no s														
					Ligi	it brown po	ony graded of the (or), he o	nactare, no caor, ary													
5	G2 12	5.0 10.0		SP	Ligh dry	nt brown to	red-brown poorly-graded SAN	ID (SP), no structure, no oc	or,		10	15	20	55							
						e: Upon ad ween 5.4 to	vancing geoprobe sleeve, ob 5.8 ft.	served little to no resistance													
10																					
	G3 42	10.0 15.0		SP	poc		n poorly graded SAND (SP), r k brown organics, occasional					10	20	70							
			209.0 13.0	SP	Ligh	nt brown po	oorly-graded SAND with grave	I (SP), no structure, no odo		5	10	15	20	50					L		
					dry																
			207.0	SM	Ligr	nt drown sii	ty SAND (SM), no structure, r	o odor, ary					20	40	40						
15			207.0 15.0		<u> </u>		- GLACIOFLUVIAL DE BOTTOM OF EXPLORAT		-1										l		
				<u> </u>																	
	Wa		vel Data	Depth	h (ft)	to:	Sample ID	Well Diagram Riser Pipe					ma						-		
Date	Time	Elap Time	(hr Bo	ttom	Bottor	n Mater	O - Open End Rod T - Thin Wall Tube	Screen	Overb Rock			`	,		5.0						
			10T C	asing	of Hol	е	U - Undisturbed Sample S - Splitspoon Sample	Cuttings	Rock Samp			(IL)	C).0 G3	3					
							G - Geoprobe	Grout	3orir							, Д-4	L		-		
			1			1															

HAL	EY DRIC	Н				GEO	PROBE REPORT Boring No.	HA-5	
Project Client Contract	R.A	A.D. S	' HIGH S PORTS d Drillin		OL 7	TRACK, 54	File No. 0206711- Sheet No. 1 of 1 Start October 2	20, 202	
		(Casing	Samp	oler	Barrel	Drilling Equipment and Procedures Finish October 2 Driller M. Kern	<u>:</u> 0, 202	2
Type Inside Dia Hammer		` ′		G 1.t	5		Rig Make & Model: Geoprobe 6620 H&A Rep. J. Shaw Bit Type: Geoprobe Spoon Elevation 222.0 (es Drill Mud: None Datum NAVD88 Casing: Push Location See Plan		
Hammer	_					-	Hoist/Hammer: - Automatic Hammer PID Make & Model: Not used		
I (ft) Blows in.	No.	⊕ (±)	re u	Symbol		VISU	IAL-MANUAL IDENTIFICATION AND DESCRIPTION Gravel Sand	Field T	est
Depth Sampler per 6	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Sy		(Den	nsity/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Dilatancy Toughness	Plasticity
0 -	G1	0.0	221.9				-TRACK RUBBER- -ASPHALT-		
	36	5.0	0.1 221.4 0.6	SW SP	odo	or, dry ht brown po	-ASPHALT- rown well-graded SAND with gravel (SW), no structure, no oorly-graded SAND with gravel (SP), no structure, no odor,		
					ı	te: Upon ad tween 2.4 to	vancing geoprobe sleeve, observed little to no resistance 2.6 ft.		
5	G2 24	5.0 10.0	_		-FILL-				
				SP	Lig mo		red-brown poorly-graded SAND (SP), no structure, no odor,		
10			212.0 10.0	SM	graded SAND (SM), no structure, no odor, moist, bottom 2 in. 10 10 50 30 sees of organics, possible former Topsoil/Loess horizon,				
					BOTTOM OF EXPLORATION 10.0 FT				
		Flan	evel Data	a Depth	າ (ft) to:	Sample ID Well Diagram Summary O Copp End Red III Riser Pipe Overburden (ft) 45.0		
Date	Time	Time	(hr Bo		Botto	Motor	T - Thin Wall Tube U - Undisturbed Sample U - Undisturbed Sample Filter Sand Rock Cored (ft) 0.0		
							S - Splitspoon Sample G - Geoprobe Grout Cuttings Grout Samples G2		
							Concrete Boring No. HA	ι-5 ———	
Field Test	s:					d S - Slow v M - Mediur		-ligh	

	FE)	/ RICH	Н			GEC	PROBE REPOR	?T			Bo	rin	g N	lo.		Н	A-(6	
Projec Client Contra	et	GR/ R.A	ANBY	PORTS		OL TRACK, §	54 N GRANBY RD, GRAN	ву ст		Sh St	e N neet art nish	No). 1 O	of cto	1 ber	20,	202		
		R.A.D. SPORTS Sea Board Drilling Casing Sampler Barrel Drilling Equipment and Factor	nt and Procedures			iller			1. K		20,	202							
Туре			-		Нδ	&A F	Rep	. J.	. Sh	aw									
Inside I	Diam		ooon			eva atun) (e D88	est.)								
Hamm	er W					cati				Pla				-					
f) ows		Meight (lb)			·				avel		Sand	d			ield	Те	2.5		
Depth (ft)	.e i						Coarse	ā	Coarse	Medium	ā	es	ncy	Seuc	city				
Deg	be ,				itional descriptions RETATION)		% Co	% Fine	% Co	% Me	% Fine	% Fines	Dilatancy	Toughness	Plasticity				
0 -		G1 0.0 221.9 221.4 20.6 SP Gray to gray-brown well-graded SAND with godor, dry Light brown poorly-graded SAND with gravel dry G2 5.0 36 10.0 SM Light brown to tan silty SAND (SM), no struct occasional dark brown organic lenses SP Brown to tan poorly-graded SAND (SP), no sbottom 5 in. wood - FILL-				BER-		6	0	0	6	6	0,			=	-		
		Dameter (in.) Auto - Hoist/Hammer: - Autom PID Make & Model: Not PID			-		5	10	10	20	55								
	Casing Sampler Barrel Drilling Equipment		gravel (SW), no structure	, no	5	10	15	20	50										
						Light brown p	poorly-graded SAND with grav	el (SP), no structure, no o	dor,										
5 —		1																	
10						occasional da Brown to tan	ark brown organic lenses poorly-graded SAND (SP), no						20						
			15.0			Dottom o m. v													
15				207.0 15.0	SP						10	15	20	55				_	
						1/	nple	, ,	/										
		Wa	ter Le	evel Data	a	1	Sample ID	Well Diagram		-		Sum	ıma	ry				=	-
Date	•	Time		(hr Bo	ottom	Bottom Water	T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample	Filter Sand	Overb Rock Samp	Cc	red	•	′		0.0 0.0 G3	3			
							·	Concrete Bentonite Seal	Bori	_					H	A- 6	;		
	nete:			Dilatano	y : R-	Rapid S - Slow	N - None Plast	icity: N - Nonplastic L - Lo	w M-M	ledi	um	Н-	High	1					

Н	ALE	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, 0 R.A.D. SPORTS actor Sea Board Drilling Casing Sampler Barrel Drilling Eq GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, 0 R.A.D. SPORTS actor Sea Board Drilling Casing Sampler Barrel Drilling Eq Rig Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: - PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: PID Make & Mode Bit Type: Geopt Drill Mud: None Casing: Push Hoist/Hammer: PID Make & Mode Bit Type: Geopt Drill Mud: None Bit Ty		ROBE REPOR	Т			Во	rin	ıg l	No.		Н	A -7	7				
Proj Clie	ject ent	RAD. SPORTS Sea Board Drilling Casing Sampler Barrel Drilling Equipment and Rig Make & Model: Geoprobe September (in.) 1.5 Drill Mud: None Casing: Push Hoist/Hammer: - Automatic PID Make & Model: Not used PID Make & Mode	Y CT		S	hee tart	t No	o. 1	of Octol	1 ber	20,	202							
			t and Procedure	es							20,	202	22						
Туре	e		probe 6620		Η	&A	Rep	o. J	. Sh	aw									
Insid Ham	de Dia nmer V	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, GRAIR R.A.D. SPORTS Sea Board Drilling Casing			Drill Mud: None Casing: Push			D	atuı	n	١	IAVI	38C	3					
		Diameter (in.) In Weight (ib) In Weight (ib) In Fall (in.) In																	
Œ.	lows J.	Weight (lb) Auto Casing: Push Hoist/Hammer: - PID Make & Model			L-MANUAL IDENTIFICATIO	N AND DESCRIPT	TION	-	_	_	_	d				Te			
Depth (Sampler B per 6 ir	Sample & Rec. (Sampl Depth (Stratur Chang Elev/Deptl	USCS Syr	(I	Densi st	tructure, odor, moisture, opti	onal descriptions	BOL,	% Coarse	% Fine	% Coarse	% Mediun	% Fine	% Fines	Dilatancy	Toughnes	Plasticity
0 -		R.A.D. SPORTS Sea Board Drilling Casing Sampler Barrel Drilling Equipment Rig Make & Model: Geop Bit Type: Geoprobe Spot Drill Mud: None Casing: Push Hoist/Hammer: Automa PID Make & Model: Not VISUAL-MANUAL IDENTIFICATION (Density/consistency, color, GROUP structure, odor, moisture, option GEOLOGIC INTERPREE Casing: Push Hoist/Hammer: Automa PID Make & Model: Not VISUAL-MANUAL IDENTIFICATION (Density/consistency, color, GROUP structure, odor, moisture, option GEOLOGIC INTERPREE ASPHALT- Light brown to brown poorly-graded SAND with graded, dry - FILL - Light brown to brown poorly-graded SAND with graded, dry - Gray to gray-brown well-graded SAND with graded, dry - GLACIOFLUVIAL DER Water Level Data Water Level Data Time Elapsed Time Time (hr.) Bottom Bottom Water - O - Open End Rod T - Thin Wall Tube U - Undistroded Sample Sets: Dilatancy: R- Rapid S- Slow N- None Plasticit Pasticit VISUAL-MANUAL IDENTIFICATION (Consity/consistency, color, GROUP structure, odor, moisture, option GEOLOGIC INTERPREE - ASPHALT Light brown to brown poorly-graded SAND (ST) - FILL Light brown to brown poorly-graded SAND (ST) - GLACIOFLUVIAL DER - SP Light red-brown poorly-graded SAND (SP). not - GLACIOFLUVIAL DER - SP Light red-brown poorly-graded SAND (SP). not - GLACIOFLUVIAL DER - SP Light red-brown poorly-graded SAND (SP). not - GLACIOFLUVIAL DER - SP Light red-brown poorly-graded SAND (SP). not - GLACIOFLUVIAL DER - SP Light red-brown poorly-graded SAND (SP). not - SP Light red-brown poorly-graded SAND (SP)			ER-		\neq								=				
						tructure no	<u></u>	10	10	20	55	_		- ‡					
		Casing Sampler Barrel Drilling Equipment at R.A.D. SPORTS actor Sea Board Drilling Casing Sampler Barrel Drilling Equipment at Right Ri		graver (SVV), NUSI	iruoiule, IIO	1	10	15	20	55									
Contractor Sea Board Drilling Cosing Sampler Barrel Drilling Equipment and Procedures Driller M. Kee Misse Model: Gacprobe 6820 Bit Type: Geoprobe 68																			
	no odor, dry,	1																	
		Casing Sampler Barrel Drilling Equipment and If R.A.D. SPORTS actor Sea Board Drilling Casing Sampler Barrel Drilling Equipment and If Right Make & Model: Geoprobe Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Bottom Gas Hoist (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Bottom Gas Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Bottom Gas Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Bottom Gas Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Bottom Gas Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Bottom Gas Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Bottom Gas Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Bottom Gas Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Push Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Push Healt (in.) Provided Bit Type: Geoprobe Spoon Drill Mud: None Casing Push Healt (in.																	
5 -																			
		Diameter (in.) er Weight (lb) er Fall (in.) Diameter (in.) Auto Casing: Push Hoist/Hammer: - Automatic PID Make & Model: Not use VISUAL-MANUAL IDENTIFICATION AN (Density/consistency, color, GROUP N.) structure, odor, moisture, optional GEOLOGIC INTERPRETA' ASPHALT. ASPHALT. ASPHALT. Cary to gray-brown well-graded SAND with grave door, dry FILL - Light brown to brown poorly-graded SAND with no odor, dry - GLACIOFLUVIAL DEPOS Time Time Elapsed Time Time (hr.) Bottom Dottom Dottom Dottom Dottom Drill Mud: None Casing: Push Hoist/Hammer: - Automatic PID Make & Model: Not use VISUAL-MANUAL IDENTIFICATION AN (Density/consistency, color, GROUP N.) Gray to gray-brown well-graded SAND with grave door, dry - FILL - Light brown to brown poorly-graded SAND with no odor, dry - GLACIOFLUVIAL DEPOS BOTTOM OF EXPLORATION BOTTOM OF EXPLORATION Thin Wall Tube U - Undisturbed Sample S - Spitspoon Sample					with gravel (SP),	no structure,	5	10		20	65						
		Casing Sampler Barrel Drilling Equipment Gameter (in.) Casing Gameter (in.) Casing Gameter (in.) Casing Gameter (in.) Casing Casing Purple Bit Type: Geoprobe Spid III Much None Bit Type: Geoprobe Spid III Much None Casing: Push Hoist/Hammer: - Auton PID Make & Model: Note PID Make & Model: Not		EPOSITS -															
10 –		Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic I PID Make & Model: Not used Survey of Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic I PID Make & Model: Not used Survey of Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic I PID Make & Model: Not used Structure, clor, color, GROUP NA structure, clor, color, GROUP NA structure, clor, moisture, optional GEOLOGIC INTERPRETATION AND Structure, clor, moisture, optional GEOLOGIC INTERPRETATION AND Structure, clor, moisture, optional GEOLOGIC INTERPRETATION Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic I PID Make & Model: Not used Structure, clor, clor, GROUP NA structure, clor, moisture, optional GEOLOGIC INTERPRETATION Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic I PID Make & Model: Not used Structure, clor, clor, clor, GROUP NA structure, clor, moisture, optional GEOLOGIC INTERPRETATION Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic I PID Make & Model: Not used Structure, clor, moisture, optional GEOLOGIC INTERPRETATION Spoon Drill Mud: None Casing: Push Hoist/Hammer: - Automatic I PID Make & Model: Not used Structure, clor, clor																	
		42 5.0 221.4 0.6 221.0 SP Gray to gray-brown well-graded SAND with grave odor, dry FILL - Light brown to brown poorly-graded SAND (SP), trace brick FILL - SP Tan to light red-brown poorly-graded SAND with no odor, dry G3 10.0 42 15.0 SP Light red-brown poorly-graded SAND with no odor, dry SP Light red-brown poorly-graded SAND (SP), no st					no structure, no o	dor, dry					100						
Contractor Sea Board Drilling Casing Sampler Barrel Drilling Equipment and Procedures Drilling Equipment and Procedures																			
Hammer Keight (in.) Auto - Casing: Push HostVarmer: - Automatic Hammer - Automatic Ham																			
Second S																			
	trace brick FILL - G2 5.0 36 10.0 7.0 SP Tan to light red-brown poorly-graded SAND with no odor, dry - GLACIOFLUVIAL DEPO SP Light red-brown poorly-graded SAND (SP), no state of the second of t																		
		Water Level Data Time Time Elapsed Time (hr.) Bottom of Casing Bottom of Hole S - Splitspoon Sample G - Geoprobe							Sun	nma	ıry				_				
Da	ate	Time		hr\Bo	ottom	Bottom World	ter	T - Thin Wall Tube U - Undisturbed Sample	Screen Filter Sa	and Ro	k C	ore	•	•		0.0			
									Grout A A Concrete	te Bo	•		ο.						-
Field	d Tests	: :	1						ity: N - Nonplastic	L-Low M						1.			_
Section Comment Comm																			

APPENDIX B
Recent Geoprobe Logs

Н		Y	н				GEO	PROBE REPOR	Т		E	Зоі	rin	g N	No.		GI	P-0)1	
Clie	oject ent ntracto	GR	ANBY	/ PUBLI / PUBLI BSURF	C SCI			FIELD AND TRACK, GRA	ANBY, CT		Sho Sta	eet art	No		of 23 J	1 une	202			
			(Casing	Sam	pler	Barrel	Drilling Equipment	t and Procedures			ish Iler		∠ B. V			202	23		
Han	de Dia nmer \ nmer I	meter (Weight Fall (in.	(lb)		1. AU	5	- - -	Rig Make & Model: Geo Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch PID Make & Model: Not	oon Automatic hammer		Ele Da	A F evat tum cati	Rep tion). I	C. 22 NA	Cra		st.)		
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		VISU	JAL-MANUAL IDENTIFICATION (Color, GROUP NAME, may structure, odor, moisture, option GEOLOGIC INTERPRI	N AND DESCRIPTION c. particle size [†] , onal descriptions		% Coarse as	_	% Coarse	% Medium	% Fine	% Fines		e ssaudbnoL		
- 0 -	0)	G-1	0.0	1				-CRUSHED STC	DNE-									$\dot{\exists}$		-
- -		44	5.0	222.5 0.5	SP	Light	brown po	oorly-graded SAND (SP), no st				5	20	50	20	5				
- 5 - - -		G-2 30	5.0	-	SP	Tanı	to light bro	own poorly-graded SAND (SP), no structure, no odor, dr	у		5	5	30	55	5				
- 10 -				213.0				BOTTOM OF EXPLORAT	FION 40.0 FT											
		Wa	ater Le	evel Dat				ion backfilled upon completion	well Diagram			9	Sum	nma	ry					
D	ate	Time	Elap	sed		h (ft) t Bottom		O - Open End Rod	Riser Pipe Screen	Overb	urc					10.0)			
			Time			of Hole	I WYSTAR	U - Undisturbed Sample	Filter Sand Cuttings	Rock			(ft	•		0.0				
								S - Splitspoon Sample G - Geoprobe	Grout Concrete	Samp) .	G	12	GF	P-0 ⁻	1		
Field	d Tests	L ;:	1	Dilatan	cy: R-	Rapid	S - Slow		Bentonite Seal ity: N - Nonplastic L - Low rength: N - None L - Low							\/or	, µ:~			
† No	ote: Ma			e size is	determ	ined by	y direct ol	m H - High Dry Sti bservation within the limitation isual-manual methods of the	ns of sampler size.							very	ITIG	<u>'</u>		

Н		Y	н				GEO	PROBE REPOR	Ī		E	Bo	rin	g N	lo.		G	P-0)2	
Clie	oject ent ntracto	GR	RANBY	' PUBLI ' PUBLI BSURF.	C SCF			FIELD AND TRACK, GRA	NBY, CT		Sh Sta		No	. 1 2	of 3 J	1 une	20: 20:			
				Casing	Sam	oler	Barrel	Drilling Equipment	and Procedures			nish iller		∠ B. \			20.	25		
Han	de Dia nmer \ nmer I	meter Veight Fall (in	(lb)		G 1.8 AU1	5	- - -	Rig Make & Model: Geo Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch PID Make & Model: Not	oon Automatic hammer		Ele	&A F eva atum ocati	Rep tion า	١.	C.	Cra 2.5 4VE	avir (e: 088 n			
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		VISL	JAL-MANUAL IDENTIFICATION (Color, GROUP NAME, max structure, odor, moisture, option GEOLOGIC INTERPRESE	N AND DESCRIPTION a. particle size [†] , conal descriptions		% Coarse 요	% Fine	% Coarse	% Medium	% Fine	% Fines		Loughness ei	Plasticity 3	
- 0 -		G-1 38	0.0	222.0 0.5		Dorle	brown oil	-CRUSHED STO				10	10	30	20	20				
-		36	5.0	221.0	SM	Dark	. Drown Sii		o odor, ary											
-				1.5	SP	Ligh	t brown po	- FILL - porly-graded SAND (SP), no st - GLACIOFLUVIAL DE	•			5	20	50	20	5				
- 5 - - -		G-2 33	5.0 10.0		SP	Tan	to light bro	own poorly-graded SAND (SP)	, no structure, no odor, dr	у		5	5	40	45	5				
				212.5																
- 10 -				212.5 10.0				BOTTOM OF EXPLORAT	TON 10.0 FT											
		Wa	ater Le	evel Dat	a	Note	: Explorat	ion backfilled upon completion	vell Diagram			S	Sum	ıma	ry					
	ate	Time	Flan	sed	Deptl	ր (ft)		Sample ID O - Open End Rod	Riser Pipe	Overb	our					10.0)			_
L	ait	riille	Time			Bottom of Hole	Water		Screen Filter Sand	Rock	Со	red	•)		0.0				
								S - Splitspoon Sample G - Geoprobe	Grout Concrete Bentonite Seal	Samp) .	G	2	GF	P-0:	2		
Field	d Tests	;: :		Dilatano Toughn	cy: R-l	Rapid - <u>L</u> ow	S - Slow M - Mediu		ity: N - Nonplastic L - Low rength: N - None L - Low							Verv	<u>/ H</u> ia	<u>h</u>		
† No	ote: Ma			e size is	determ	ined b	y direct ol	oservation within the limitation is ual-manual methods of the	ns of sampler size.											

Н	ALE	Y	Н				GEO	PROBE REPOR	Г		I	Во	rin	g N	No.		G	P-0	13	
Pro Clie Cor	-	GF	RANB	Y PUBLI	C SCF			FIELD AND TRACK, GRA	ANBY, CT		Sh Sta	eet art	No). 1 2	of 23 J	une	20 20 20			
				Casing	Sam	pler	Barrel	Drilling Equipmen	t and Procedures			nish iller		ے B. \				25		
Тур	е			-	G		-				Н8	&A F	Rep).	C.	Cra	avir	ıho		
Insid	de Dia	GRANBY PUBLIC SCHOOLS GRAND SC			oon			eva atun	tion	1) (e:)88							
Han	nmer \	Veight	(lb)	-	AU	го	-	•	Automatic hammar					S		Pla				
Han		all (in	1.)	-	_		-													
Œ	Sampler Blows per 6 in.	No. (in.)	le (ft)	(#) 12	mbol		VISU	JAL-MANUAL IDENTIFICATIO	N AND DESCRIPTION			avel	_	Sano F				ield g		
Depth (ft)	oler E er 6 i	nple tec. (amp pth	tratui hang Dept	S Sy						Coarse	Fine	Coarse	Medium	Fine	Fines	Dilatancy	Toughness	Plasticity	Strength
۵	Sam	Sar & F	S	Elev	OSO			GEOLOGIC INTERPR	ETATION)		%	% F	% 	№ №	% F	% F	Dila	Lou	Plas	Stre
- 0 -						_			·· ·			_	-	45	00	10				
-		40	5.0	0.5				own poorly-graded SAND with	silt (SP-SM), no structure	e, no		5	20	45	20	10				
_								-FILL-												ĺ
																				ĺ
_																				
-																				
- 5 -		G 2	5.0	218.0	<u>_</u> мг -	l ighi	t brown sa	andy SILT (ML) no structure r	oo odor dry occasional d			Ļ.	<u> </u>	10	30	60		$\vdash \downarrow$	$\vdash \dashv$	-
		-		0.0	IVIL					air				10	30					ĺ
-				215.5																ĺ
-				7.5				-GLACIOFLUVIAL DE	POSITS-											
_																				ĺ
				213.0																ĺ
- 10 -				10.0				BOTTOM OF EXPLORAT	TION 10.0 FT									П		
						Note	: Explorat	ion backfilled upon completion	٦.											
																				ĺ
																				ĺ
																				ĺ
																				ĺ
																				ĺ
																				ĺ
																				ĺ
		W	ater Le	evel Dat	 a			Sample ID	Well Diagram				Sum	ıma	rv		Ш			
П	ate		Elap	osed	Deptl			· ·	Riser Pipe	Overl	our					10.0	—)			
<u> </u>			Time						Filter Sand	Rock	Со	red	•	•		0.0				
	1 17 9 1 Cuttings									Samp	oles	i		G	2					
								G - Geoprope		Bori	ng	No	ο.			GF	P-0	3		
Field	d Tests	:	'				S - Slow M - Mediu	N - None Plastic m H - High Dry Str	ity: N - Nonplastic L - Lo rength: N - None L - Low	w M - N M - Med	ledi diun	um n H	H - I - Hi	High igh	า V -	Very	/ Hig	jh		

Н	KLE	PRIC	Н				GEO	PROBE REPOR	Γ		E	Зоі	rin	g N	No.		G	P-0	4	
Clie	oject ent ntracto	GR	ANB	Y PUBL Y PUBL JBSURF	IC SC			FIELD AND TRACK, GRA	NBY, CT	;	She Sta	eet art	No). 1 2	of 23 J	11-0 1 une une	20:			
				Casing	Sam	pler	Barrel	Drilling Equipmen	and Procedures			ish ller			.o o Wils		, 20,	_0		
Тур	е			-	(3	-	Rig Make & Model: Geo			Н&	A F	Rep).	C.	Cra	avin	ho		
Insid	de Dia	meter	(in.)	-	1.	.5	-	Bit Type: Geoprobe Spo Drill Mud: None	oon	II.		evat tum		1		22.0 AVE		st.)		
		Weight	` '	-	AU	то	-	Casing: Push Hoist/Hammer: Winch	Automatic hammer	_		cati		S		Plar				
Har		Fall (in	.)	-	ļ -		-	PID Make & Model: Not												
Œ	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	æ Œ	Stratum Change Flev/Denth (ft)	Symbol		VISU	JAL-MANUAL IDENTIFICATIO	N AND DESCRIPTION	+	Gra σ	vel	_	San E				ield S		
Depth (ft)	pler oer 6	mple Rec.	Sample Depth (ft)	Stratu Chang				(Color, GROUP NAME, max structure, odor, moisture, opti	onal descriptions		Coarse	Fine	Coarse	Medium	Fine	Fines	Dilatancy	Toughness	Plasticity	Strength
	Sam	Sar & F	ص <u>ت</u>	0,0	nscs			GÉOLOGIC INTERPRI	ETATION) '		%	%	%	√ %	% F	% F	Dila	Jo T	Pla	Stre
- 0 -		G-1 38	0.0 5.0	221.5 0.5	SM	Darl	c hrown sil	-CRUSHED STC ty SAND with gravel (SM), no	• •=		5	10	10	25	30	20				
-			5.0		Own	Dan	(DIOWIT SII	- FILL -	Structure, no oder, dry				'	20						
-								- FILL -												
<u></u>				219.0 3.0	SP	Ton	to light he	own poorly-graded SAND (SP	no atructura no adar di	.,		5	20	ΕO	20	_				
				3.0) SP	Tan	to light bit	. , ,		y		3	20	50	20	3				
								- GLACIOFLUVIAL DE	POSITS -											
- 5 -		G-2	5.0	1	SP	Tan	to light bro	own poorly-graded SAND (SP	, no structure, no odor, di	у		5	20	50	20	5				
-		40	10.0																	
-																				
-																				
- 10 -				212.0 10.0				BOTTOM OF EXPLORAT	TION 10.0 FT		\dashv					Н				
						Note	e: Explorat	ion backfilled upon completion	1.											
		Wa		evel Da				Sample ID	Well Diagram		_	S	Sum	ma	ry	<u> </u>		_		
D	ate	Time			ottom	th (ft) Botton	1 Water	O - Open End Rod T - Thin Wall Tube	Riser Pipe Screen	Overb			•	•		10.0				
				- \of (Casing	of Hole	e vvaler	U - Undisturbed Sample S - Splitspoon Sample	Filter Sand	Rock ((ft	,	2	0.0				
								G - Geoprobe	Grout Concrete	Borin).			GF	- 0,	4		-
Field	d Tests	<u></u>		Dilatan	cv: R-	Rapid	S - Slow	N - None Plastic	Bentonite Seal ity: N - Nonplastic L - Lov					Hiał	า					
			partic	Tough	<u>néss: L</u>	<u> - Low</u>	M - Mediu		rength: N - None L - Low							Very	/ Hig	h		
		No	te:	Soil ider	tificat	ion ba	sed on vi	sual-manual methods of th	ne USCS as practiced b	y Haley	&	Ald	ric	h, Ir	ıc.					

Н		Y	н				GEO	PROBE REPOR	Γ		ı	Во	rin	g N	lo.		GI	P-0)5	
Clie	oject ent ntracto	GR	ANBY	' PUBLI ' PUBLI BSURF.	C SCH			FIELD AND TRACK, GRA	NBY, CT		Sh St	e N neet art	No	· 1	of 3 J	1 une	202			
			(Casing	Sam	pler	Barrel	Drilling Equipment	and Procedures		l	nish iller		ے B. V			202	23		
Han	de Dia nmer \	meter (Weight Fall (in.	(lb)	- - -	1.5 AU ⁻	5	- - -	Rig Make & Model: Geo Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch PID Make & Model: Not	oon Automatic hammer		El Da	&A F eva atum cati	Rep tion า	١.	C.	Cra 3.0 AVE	avin (es 088 n			
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		VISL	JAL-MANUAL IDENTIFICATIOI (Color, GROUP NAME, may structure, odor, moisture, optimature, optimature)	N AND DESCRIPTION a. particle size [†] , conal descriptions		% Coarse	avel % Eine	% Coarse	% Medium	% Fine	% Fines		Loughness e	Plasticity a	
- 0 -	0,	G-1 39	0.0 5.0	222.5 0.5 221.5 1.5	SM		brown sil	-CRUSHED STC ty SAND with gravel (SM), no material - FILL -		ace	5	10			30	20				
- - -				1.5	SP	Tan	to light bro	- FILL - own poorly-graded SAND (SP) - GLACIOFLUVIAL DE		/у		5	20	50	20	5				
- 5 - - -		G2 40	5.0 10.0		SP	Tan	to light bro	own poorly-graded SAND (SP)	, no structure, no odor, di	у	5	5	20	45	20	5				
- 10 -				213.0 10.0				BOTTOM OF EXPLORAT	TION 40 0 FT											
		Wæ	ater Le	evel Dat	a	Note	e: Explorat	ion backfilled upon completion				S	Gum	ıma	ry					
	ate	Time	Flan	sed	Dept	h (ft)		Sample ID O - Open End Rod	Riser Pipe	Overl	bur					10.0				_
L	ale	Tille	Time			Bottom of Hole	Water	T - Thin Wall Tube U - Undisturbed Sample	Screen Filter Sand	Rock	Сс	red	•)		0.0				
								S - Splitspoon Sample G - Geoprobe	Cuttings Grout Concrete Bentonite Seal	Samp Bori	ng	No		G		GF	P-0	5		
L	d Tests			Toughn	<u>ess: L</u>	- Low		m H - High Dry Str	ity: N - Nonplastic L - Lovength: N - None L - Low							Very	/ Hig	h		
_ [™] No	ote: Ma							oservation within the limitation sual-manual methods of th		y Hale	y &	Ald	lric	n, Ir	ıc.					

Н		Y	Н				GEO	PROBE REPOR	Т		E	301	rin	g N	10.		G	P-0)6	
Clie	ject ent ntracto	GF	RANB	/ PUBLI	C SCF			FIELD AND TRACK, GRA	ANBY, CT	3	She Sta	eet art	o. No). 1 2	of 23 J	1 une	20			
			(Casing	Sam	pler	Barrel	Drilling Equipmen	t and Procedures			iish Iler		ے B. V			: 20.	23		
Тур	е			-	G	;	-			ŀ	4&	ΑF	Rep	١.	C.	Cra	avir	ıho		
Insid	de Dia	Casing Sampler Barrel Drilling Equipment and I G - G - Rig Make & Model: Geoprobe Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: Winch Autom - PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND (Color, GROUP NAME, max. partification of Structure, odor, moisture, optional de GEOLOGIC INTERPRETATION of Type Systems of S							oon	I .		evat tum	tion	l	22 N/	23.0 AVE	(e:	st.)		
Han	nmer \	Veight	(lb)	-	AU	го	-	Casing: Push	Automotic homens	—			ion	S	ee l					
Han		Fall (in	1.)	-			-													
Œ	Sampler Blows per 6 in.	No.	(#)	E P L	loqu		VISU	JAL-MANUAL IDENTIFICATION	N AND DESCRIPTION	-		ıvel	-	Sand				ield ဖွ		st
Depth (ft)	oler B	oldı ec. (ampl pth (tratur hang Dept	Syl						Coarse	Fine	Coarse	Medium	Fine	Fines	ancy	Toughness	icity	gth
De	Samp	San & R	S	Elev C	nsc			GEOLOGIC INTERPR	ETATION)	3	္ %	% Fi	% Cc	W W	% Fi	% Fi	Dilatancy	Toug	Plasticity	Strength
- 0 -	0,		0.0								Ħ	\dashv	F					Ħ		
-		39	5.0	0.5			t brown po	oorly-graded SAND with silt (S	P-SM), no structure, no od	dor,		5	20	45	20	10				
						,			TDOSITS											
_								- GLACIOFLUVIAL DE	POSITS -											
- 5 - -		-	tructure, no odor, dry			5	20	40	35											
- - - - 10 -				213.0				DOTTOM OF EVEL ODA'	TION 40 0 FT											
	Note: Exploration backfilled upon completion. Note: Exploration backfilled upon completion. Water Level Data Sample ID Well Diagra								n.											
		W				P \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	4	•	Well Diagram				Sum		ry		_			
D	ate	Time	Elap Time		ottom	h (ft) Bottom of Hole	1 Water	O - Open End Rod T - Thin Wall Tube	Riser Pipe Screen	Overb			•	•		10.0				
		Filter Sand	Rock ((ft	:) G		0.0											
	S - Splitspoon Sample G - Geoprobe Grout Concrete												 D.			GI	P-0	6		
Field	d Tests	<u>.</u>		Dilatan	cv: R-	Rapid	S - Slow	N - None Plastic	Bentonite Seal ity: N - Nonplastic L - Lov	Borin M - Me	_			High	— 1	—				
L		-						ım H - High Dry Stı	rength: N - None L - Low	M - Medi	<u>um</u>	<u> </u>	<u>ı - Hi</u>	gh	<u>V - '</u>	Very	/ Hig	h_		

Н	ALE	Y	н				GEO	PROBE REPOR	Г		ı	Во	rin	g N	lo.		G	P-(7	
Pro Clie Cor	-	GF	RANB	Y PUBLI	C SCF			FIELD AND TRACK, GRA	ANBY, CT		Sh	e N neet art		. 1 2	of 3 J	1 une	20			
		GRANBY PUBLIC SCHOOLS G&M SUBSURFACE Casing Sampler Barrel Drilling Equipment and Proce Barrel Drilling Equipment and Proce Geography Spoon Bit Type: Geography Spoon Drill Mud: None Casing: Push Hoist/Hammer: Winch Automatic hold PiD Make & Model: Not used VISUAL-MANUAL IDENTFICATION AND DESC (Color, GROUP NAME, max. particle size structure, odor, moisture, optional description of Spoon Bit Type: Geography Spoon Drilling Equipment and Proce Geography Spoon Drill Mud: None Casing: Push Hoist/Hammer: Winch Automatic hold PiD Make & Model: Not used VISUAL-MANUAL IDENTFICATION AND DESC (Color, GROUP NAME, max. particle size structure, odor, moisture, optional description of Spoon Bit Type: Geologic Interpretation of Spoon Bottom Bit Type: Geography Spoon Bottom Bit Ty			t and Procedures			nish iller		2 B. V			20	25						
Тур	e			-	G			Rig Make & Model: Geo	probe 7822DT			&A F					avir	nho		
Insid	de Dia	Casing Sampler Barrel Drilling Equipment and Proce ameter (in.) Casing Sampler Barrel Drilling Equipment and Proce Barrel Fig. 1.5 Part of the process of t			oon			eva		ı			(e							
Han	nmer \	Casing Sampler Barrel Drilling Equipment and Processing Make & Model: Geoprobe 782 Bit Type: Geoprobe Spoon Drill Mudr. None Casing: Push Hoist/Hammer: Winch Automatic PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND DESTRUCTIVE, odor, moisture, optional description of the Casing Push Hoist/Hammer: Winch Automatic PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND DESTRUCTURE, odor, moisture, optional description of the Casing Push Hoist/Hammer: Winch Automatic PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND DESTRUCTURE, odor, moisture, optional description of the Casing Push Hoist/Hammer: Winch Automatic PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND DESTRUCTURE, odor, moisture, optional description of the Casing Push Hoist/Hammer: Winch Automatic PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND DESTRUCTURE, odor, moisture, optional description of Casing Push Hoist/Hammer: Winch Automatic PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND DESTRUCTURE, odor, moisture, optional description of Casing Push Push Push Push Push Push Push Push							atun ocat		S	ee l		088 n						
Han		Diameter (in.) Property (in.)																		
ff)	lows	Diameter (in.) er Weight (lb) ler Fall (in.) - AUTO - Casing: Push Hoist/Hammer: Winch Automatic h PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND DESC (Color, GROUP NAME, max. particle siz structure, odor, moisture, optional descript GEOLOGIC INTERPRETATION) G-1 34 G-2 5.0 60 G-2 60 Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure							N AND DESCRIPTION			avel		Sand	b		F	ield σ	Tes	st
Depth (ft)	ler B	GRANBY PUBLIC SCHOOLS G&M SUBSURFACE Casing Sampler Barrel Drilling Equipment and Proced Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push Hoist/Hammer: Winch Automatic ha PID Make & Model: Not used VISUAL-MANUAL IDENTIFICATION AND DESCI (Color, GROUP NAME, max, particle size structure, odor, moisture, optional description GEOLOGIC INTERPRETATION) G-1 G-2 G-2 G-2 G-2 G-3 G-2 G-2 G-3 G-2 G-2									Coarse	Fine	Coarse	Medium	ЭС	Set	ancy	hnes	icity	gth
De	samp	SP Tan to light brown poorly-graded SAND (SP), no structure, of SP) SP Tan to light brown poorly-graded SAND (SP), no structure, ostructure, o							onal descriptions ETATION)		ى د	% Fir	ئ %	% Me	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
- 0 -	0)		0.0	1				-CRUSHED STC	NE-		<u> </u>									
-		34 5.0 222.9 SM Dark brown silty SAND with gravel (SM), no structure, no odd - FILL - Tan to light brown poorly-graded SAND (SP), no structure, no							structure, no odor, dry		5	10 5	10 5		30 30					
		Tan to light brown poorly-graded SAND (SP), no structure, no), no structure, no odor, dr	у	l	3	3	33	30	3				
		G-1 0.0 222.5 5.0 SM Dark brown silty SAND with gravel (SM), no structure, no odo - FILL - Tan to light brown poorly-graded SAND (SP), no structure, no - GLACIOFLUVIAL DEPOSITS -							POSITS -		l									
- - 5 - - -		G-2 5.0 60 10.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no or structur), no structure, no odor, dr	у		5	5	45	45						
- 10 -				213.0				DOTTOM OF EVEL OR AT	SION 40 0 FT											
		CRUSHED STONE- 222.5 SM Dark brown silty SAND with grave! (SM), no structure, no control of the structure of the struc							l											
		Water Level Data Sample ID Well Diagram																		
		W				16.5		Sample ID	Well Diagram		_	5	Sum	ma	ry					_
D	ate	Time		hr Bo	ottom	Bottom	1 Water		Screen	Overb			-	-		10.0				
				of C	Casing	of Hole	vvaler	U - Undisturbed Sample	- I intoi caria	Rock Samp			(ft) G		0.0				
									Grout Concrete	<u> </u>				G	_	GF	- 0	7		
<u> </u>				D":		D- ··	0.0	NI Nissa	Bentonite Seal	Borii				U:'				-		
Field	d Tests): 							rength: N - Nonplastic L - Low rength: N - None L - Low							Very	/ Hig	h		

Н		PRIC	н				GEO	PROBE REPORT	Г		E	3or	ring	g N	lo.		G	P-0	8	
Clie	oject ent ntracto	GR	ANB)	Y PUBLI Y PUBLI JBSURF	C SCI			FIELD AND TRACK, GRA	ANBY, CT	1	Sho Sta		No). 1 2	of 3 J	1 une	20 20			
			-	Casing	Sam	pler	Barrel	Drilling Equipment	t and Procedures			iish Iler		ے B. V			, 20	20		
Тур	е			-	G	}	-	Rig Make & Model: Geo	•	—		A F			C.	Cra	avir	ıho		
Insi	de Dia	meter ((in.)	-	1.	5	-	Bit Type: Geoprobe Spo Drill Mud: None	oon			evat itum) (e:)88			
		Veight	` '	-	AU ⁻	ТО	-	Casing: Push Hoist/Hammer: Winch	Automatic hammer		Lo	cati	on	S	ee l	Pla	n			
Har		Fall (in.	.)	-	-		-	PID Make & Model: Not			_				_					
Œ	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	ē (≢	Stratum Change Elev/Depth (ft)	Symbol		VISU	JAL-MANUAL IDENTIFICATION	N AND DESCRIPTION	-		ivel	-	Sand				ield		
Depth (ft)	pler ser 6	mple Rec.	Sample Depth (ft)	Stratu Chan //Dep	SS			(Color, GROUP NAME, max structure, odor, moisture, option	onal descriptions	١,	Coarse	Fine	Coarse	Medium	Fine	Fines	Dilatancy	Toughness	Plasticity	Strength
	Sarr	Sa 8 F	۵ ۵	Ele	nscs			GEOLOGIC INTERPRI			%	∃ %	% (٧ %	% F	% F	Dile	길	Pla	Stre
- 0 -		G-1 36	0.0 5.0	222.5 0.5	SP	Tan	to light bro	-CRUSHED STO own poorly-graded SAND (SP)		,	4	5	5	55	30	5				
-			0.0		J			- GLACIOFLUVIAL DE												
- - 5 - -		G-2 30	5.0 10.0	_	SP	Tan	to light bro	own poorly-graded SAND (SP)), no structure, no odor, dry	,			5	45	50					
- 10 -				213.0 10.0				BOTTOM OF EXPLORAT	TION 10 0 FT		_							Ш		
D	Pate	Wa Time	Elap		Dept	h (ft) Bottom of Hole	to:	U - Undisturbed Sample S - Splitspoon Sample	Well Diagram ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Overbi Rock (Sampl	Coi	den red	(ft	•	,	10.0				
								G - Geoprobe	Grout - ^ Concrete	Borin).			GF	P-0	8		
Field	d Tests	i					S - Slow		Bentonite Seal ity: N - Nonplastic L - Low rength: N - None L - Low							\/er	, Hia			
† No	ote: Ma	aximum No	partic te: S	le size is	determ	nined b	y direct ol	m H - High Dry Str pservation within the limitation sual-manual methods of the	ns of sampler size.							v CI)	, , , , 119	<u>''</u>		

Н		Y	н				GEO	PROBE REPOR	Γ		ı	Bo	rin	g N	No.		GI	>-0	9	
Clie	oject ent ntracto	GR	ANBY	/ PUBLI / PUBLI BSURF	C SCI			FIELD AND TRACK, GRA	NBY, CT		Sh Sta	eet art	No). 1 2	of 23 J	une	202			
			(Casing	Sam	pler	Barrel	Drilling Equipment	and Procedures			nish iller			.o o Nils		202	23		
Han	de Dia nmer \	meter Weight Fall (in	(lb)	- - -	1. AU	5	- - -	Rig Make & Model: Geo Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch PID Make & Model: Not	oon Automatic hammer		Ele	&A Feva eva etum ecati	tion)	22 N/					
(#)	Slows n.	No.		t e a tr	Symbol		VISU	JAL-MANUAL IDENTIFICATION				avel	_	San	d			eld g		
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Sy			(Color, GROUP NAME, max structure, odor, moisture, opti GEOLOGIC INTERPRE	onal descriptions		% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
- 0 -		G-1 41	0.0 5.0	222.0 0.5	SM	Dark	brown sil	-CRUSHED STO ty SAND with gravel (SM), no			5	10	10	25	30	20				
-								- FILL -												
				220.0 2.5	SP	Tan	to light bro	own poorly-graded SAND (SP)	, no structure, no odor, d	ry		5	5	55	30	5				
								- GLACIOFLUVIAL DE	POSITS -											
_																				
- 5 -		G-2 33	5.0 10.0		SP	Tan	to light bro	own poorly-graded SAND (SP)	, no structure, no odor, d	ry		5	5	55	30	5				
-																				
=																				
-																				
-				040.5																
- 10 -				212.5 10.0				BOTTOM OF EXPLORAT	TION 10.0 FT											
						Note	: Explorat	ion backfilled upon completior	1.											
		\ \ \	.4					T - :	M-HD:				<u>_</u>							
<u> </u>	ate	Time	Elap	l D.	Dept	h (ft)		Sample ID O - Open End Rod	Well Diagram ☐☐ Riser Pipe ☐☐ Screen	Overl	our			<u>nma</u>)		10.0	—)			
Ľ.			Time		ottom Casing	Bottom of Hole	Water	U - Undisturbed Sample	Screen Filter Sand Cuttings	Rock	Со	red	•	()		0.0				
								S - Splitspoon Sample G - Geoprobe	Grout A Concrete	Samp Bori).	G	ı ∠	GF	- 06	9		
Field	d Tests	 s:		Dilatan	cy: R-	Rapid	S - Slow		Bentonite Seal ity: N - Nonplastic L - Lov rength: N - None L - Low	w M-N	1ediu	um	H -			Ven		<u> </u>		
† No	ote: Ma			e size is	determ	ined b	y direct ol	m H - High Dry Str bservation within the limitation isual-manual methods of th	ns of sampler size.							very				

Н	S																			
Clie	ent	GR	ANBY	PUBLI	C SCH			FIELD AND TRACK, GRA	ANBY, CT		Sh Sta	eet art	No	. 1 2	of 4 Ju	1 une	202			
				Casing	Sam	pler	Barrel	Drilling Equipment	t and Procedures								202	20		
Insi	de Dia nmer \	Weight	(lb)	- - -	1.	5	- - -	Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch	oon Automatic hammer		Ele	evat	Rep tion า	-	C. 22 NA	Cra 3.0 AVE	(es)88			
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		VISL	JAL-MANUAL IDENTIFICATION (Color, GROUP NAME, may structure, odor, moisture, opti	N AND DESCRIPTION c. particle size [†] , onal descriptions		Coarse	Fine	Coarse	ш		% Fines		SS		
- 0 - - -	G-1 0.0 222.5 222.5 222.0 SP Gray to gray-brown silty SAND with gravel (SM), no structure, no odo - GLACIOFLUVIAL DEPOSITS - G-2 5.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odo																			
- 5 - - -), no structure, no odor, dry	,		5	5	55	30	5											
- 10 -				213.0				DOTTOM OF EVEL OR AT	FION 40 0 FT											
	Note: Exploration backfilled upon completion.																			
			Flan			h (ft)	to:	· ·	Riser Pipe	0.45	hu					10.0				_
	ate	Time		(hr Bo	ottom		1 Water		·				•	•		10.0 0.0				
								S - Splitspoon Sample G - Geoprobe	ণ্ড প্র Cuttings Grout	Samp Bori).	G	2		P-1()		
Fiel	d Tests	s:	<u>'</u>	Dilatano Toughn	cy: R- less: L	Rapid - Low	S - Slow M - Mediu		eity: N - Nonplastic L - Low rength: N - None L - Low							Very	Higl	1		
† No	ote: Ma			e size is	determ	ined b	y direct ol	oservation within the limitation is ual-manual methods of the	ns of sampler size.											

Н		Casing Sampler Barrel Drilling Equipment and Procedures												g N	lo.		GI	P-1	1	
Clie	oject ent ntracto	GR	ANBY	PUBLI	C SCH			FIELD AND TRACK, GRA	ANBY, CT		Sh Sta	eet art	No		of 24 J	1 une	202			
			(Casing	Sam	pler	Barrel	Drilling Equipmen	t and Procedures		l	nish iller		∠ B. \			: 202	23		
Han	de Dia nmer \	Weight	(lb)		1.5	5	- - -	Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch	oon Automatic hammer		Ele Da	RA Fevaratum	Rep tion า	١.	C.	Cra 2.0 AVE	avin (es 088 n			
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)		USCS Symbol		VISU	JAL-MANUAL IDENTIFICATIO (Color, GROUP NAME, ma) structure, odor, moisture, opti	N AND DESCRIPTION x. particle size [†] , ional descriptions		% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines		SS	Plasticity Les	
- -				0.1 221.5 0.5	SM	struc	cture, no c	-CRUSHED STO rown poorly-graded SAND wit dor, dry - FILL -	DNE- th silt and gravel (SP-SM),	/	10	15 10		20 45						
- 5 -		EPOSITS -			5	5	55													
-				•																
- 10 -																				
D	Water Level Data Water Level Data Sample ID Well Diagram Summary Date Time Elapsed Depth (ft) to: O - Open End Rod Riser Pipe Overburden (ft) 10.0																			
				` 1of C	Casing	of Hole	Water	U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	Filter Sand Grout Concrete Rentonite Seal	Rock Samp Bori	oles	;) <u>G</u>		0.0 GF	P-1	1		
Fiel	d Tests	└ 5 :		Dilatan	cy: R-	Rapid	S - Slow		Bentonite Seal city: N - Nonplastic L - Low rength: N - None L - Low							Ven	/ Hia	h		
† No	ote: Ma			e size is	determ	ined b	y direct o	bservation within the limitation isual-manual methods of the	ns of sampler size.							v CI Y	ring	1		<u> </u>

Н		PRIC	Н				GEO	PROBE REPOR	Γ			30	rin	g N	lo.		GI	P-1	2	
Clie	oject ent ntracto	GR	'ANB	Y PUBLI Y PUBLI JBSURF,	C SCI			FIELD AND TRACK, GRA	NBY, CT		Sh Sta	eet art	No	. 1 2	of 4 J	une	202 e 202			
				Casing	Sam	pler	Barrel	Drilling Equipment	and Procedures			ilsh Iler			.u. Vils		202	23		
Тур	е			-	G	;	-	Rig Make & Model: Geo			Н8	kA F	Rep	٠.	C.	Cra	avin	ho		
Insi	de Dia	meter	(in.)	-	1.	5	-	Bit Type: Geoprobe Spo Drill Mud: None	oon			eva itum	tion	ı		2.0 AVE	(es	st.)		
Han	nmer \	Weight	(lb)	-	AU	ТО	-	Casing: Push Hoist/Hammer: Winch	Automatic hammer	-	_			S		Plar				
Har		Fall (in	.)	-	-	·	-	PID Make & Model: Not												
Œ	3lows n.	No.)	≘ (≘	E & E .	Symbol		VISU	JAL-MANUAL IDENTIFICATION	N AND DESCRIPTION			ivel	_	Sand				ield s		
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS S)			(Color, GROUP NAME, max structure, odor, moisture, opti- GEOLOGIC INTERPRE	onal descriptions		Coarse	Fine	Coarse	Medium	Fine	Fines	Dilatancy	Toughness	Plasticity	Strength
- 0 -	Sa	ഗ ∞ G-1		221.9	ő			- TRACK RUBBER AND		=	%	%	%	%	%	%	۵	ř	₫	S
		45	0.0 5.0	0.1 221.5 0.5	SP-			-CRUSHED STO	NE-		15	20	15	25	15	10				
					SM		y to gray-b cture, no o	rown poorly-graded SAND witl dor, dry	n silt and gravel (SP-SM), n	0										
-		220.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, of							no structure no odor dry	_/		5	5	55	30	5				
-		Tan to light brown poorly-graded SAND (SP), no structure, no odd - GLACIOFLUVIAL DEPOSITS -																		
-								CENTOION EOVIME DE	00110											
- 5 -						_						_	_							
		G-2 41	5.0 10.0		SP	Ian	to light bro	own poorly-graded SAND (SP)	, no structure, no odor, dry			5	5	45	40	5				
-																				
-																				
-																				
- 10 -				212.0																
10				10.0				BOTTOM OF EXPLORAT	TION 10.0 FT											
	10.0 BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.																			
		Wa	ater Le	evel Data	<u> </u>			Sample ID	Well Diagram			ć	Sum	lma	rv	\square	Ш			<u></u>
ח	ate	Time	Elap	psed	Dept	h (ft)	- 1	O - Open End Rod	Dinor Dino	Overb	our					10.0)			
<u> </u>		5	Time		ottom Casing	Botton of Hole		T - Thin Wall Tube U - Undisturbed Sample	Filter Sand	Rock			(ft	,		0.0				
								S - Splitspoon Sample G - Geoprobe	Grout	Samp				G	2		P-12			
								'	Bentonite Seal	3orii				1.0. 1		<u> </u>		_		
	d Tests			Toughn	<u>éss: L</u>	<u>- Low</u>		m H - High Dry Str	ity: N - Nonplastic L - Low ength: N - None L - Low N							Very	/ Hig	h		
No	ote: Ma	aximum No	partic te: S	ie size is Soil iden	getern tificati	iined b ion ba	y airect ol sed on vi	oservation within the limitation sual-manual methods of th	ns or sampler size. ne USCS as practiced by	Hale	y &	Ald	Iricl	n, Ir	ıc.	_	_			

HA	LD)	RICH	1				GEO	PROBE REPOR	г		E	Зоі	rin	g N	lo.		GI	P-1	3	
Project Client Contra		GRA	ANBY	' PUBLI ' PUBLI BSURF	C SCI			FIELD AND TRACK, GRA	ANBY, CT	9	She Sta	eet art	No		of 4 J	1 une	202			
			(Casing	Sam	pler	Barrel	Drilling Equipment	t and Procedures			ish Iler		ے B. V			202	-0		
Туре				-	G	i	-	Rig Make & Model: Geo	-	ŀ	4&	A F	Rep	٠.	C.	Cra	avin	ho		
Inside	Diame	eter (i	in.)	-	1.4	5	-	Bit Type: Geoprobe Spo Drill Mud: None	oon			evat tum	tion า				(es 088	st.)		
Hamm	er We	eight ((lb)	-	AU ⁻	го	-	Casing: Push Hoist/Hammer: Winch	Automatia hammar	—			ion	S	ee l					
Hamm		ll (in.))	-	-		-	PID Make & Model: Not												
(ft)		. (.i.	æ€	n (ff)	Symbol		VISU	JAL-MANUAL IDENTIFICATION	N AND DESCRIPTION	-	\neg	vel	-	Sand	t			eld တ္က		t
Depth (ft) Sampler Blov	per 6 in.	& Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Sy			(Color, GROUP NAME, max structure, odor, moisture, opti GEOLOGIC INTERPRI	onal descriptions	(% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0	- (G-1	0.0	222.5				- TRACK RUBBER AND			╛									
-		46	5.0	0.5 222.0 1.0	SP-	Gray	to gray-b	-CRUSHED STC rown poorly-graded SAND wit		0 1	5	20	15	25	15	10		-		
-					SM SP		cture, no o to light bro	dor, dry own poorly-graded SAND (SP)), no structure, no odor, dry			5	5	55	30	5				
-	-FILL-																			
- 5 		G-2 38	5.0 10.0	218.0 5.0	SM			own silty SAND (SM), no struc k brown organic soil	sture, no odor, dry, frequent			5	5	50	20	20			_	
-								-FILL-												
_	SM Brown silty SAND (SM), no structure, no odor, moist G-3 10.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no													20	40	40				
10				10.0	SP	Tan	to light bro	own poorly-graded SAND (SP)), no structure, no odor, moi	st		5	5	40	30	20				
-	G-3 10.0 42 15.0 SP Tan to light brown poorly-graded SAND (SP), no structure, n -GLACIOFLUVIAL DEPOSITS-																			
-				210.0 13.0	SM	Brov	vn silty SA	ND (SM), no structure, no odo		+	- 🕂			20	40	40	-+	-+	-+	
				209.0 14.0	SP-		to light hr	own poorly-graded SAND (SP	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		5		40	30	30		_	-4	_	
- 15					35	Tall	to light bit	1 30	,	51	,	5	40	30	20					
				208.0 15.0				BOTTOM OF EXPLORAT	ΓΙΟΝ 15.0 FT											
						Note	: Explorat	ion backfilled upon completior	n.											
\vdash		Wat	ter Le	vel Data	 a_			Sample ID	Well Diagram		_		<u> </u>	ma	ry					_
Date	-	Time	Elap Time	(hr Bo	ttom	h (ft) Bottom of Hole	1 Water	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample	Riser Pipe Screen Filter Sand	Overbu Rock (Coi	len	(ft)	,	15.0 0.0		_		
								S - Splitspoon Sample G - Geoprobe	Grout	Sample		<u> </u>		G	3	Ci	P-1;	2		
Field To	ests:						S - Slow	N - None Plastic	Bentonite Seal		diu	ım	H -							
† Note:	Maxi			e size is	determ	ined b	y direct ol	m H - High Dry Stu pservation within the limitation sual-manual methods of the								very	rig	1		_

Н	KLE	nt GRANBY PUBLIC SCHOOLS tractor G&M SUBSURFACE Casing Sampler Barrel Drilling Equipment and Procedures Drilling Equipment and Procedures Driller B. Wilson																		
Clie		GR	'ANB	Y PUBLI	C SCI			FIELD AND TRACK, GRA	ANBY, CT		SI	heet tart	No). 1 2	of 24 Ju	1 une	e 202			
				Casing	Sam	pler	Barrel	Drilling Equipmen	t and Procedures		1							_0		
Тур	е			-	(3	-	•	•		Н	&A F	Rep	١	C.	Cra	avin	ho		
Insid	de Dia	meter ((in.)	-	1.	.5	-		oon					I				st.)		
Han	nmer V	Veight	(lb)	-	AU	то	-	, ,	Automatic hamme	r	-			S				-		
Har		· ·	.)	-	-	-	-	-												
Œ	3lows n.	No.	<u>ə</u> €	E 96 E	loqui		VISU	JAL-MANUAL IDENTIFICATIO	N AND DESCRIPTION	ON	+	_	_		tc			SS		
Depth (ft)	pler E er 6 i	nple Rec.	amp	itratu Shang //Depi	S Sy						oars	ine	oars	lediu	ine	ines	tancy	ghne	sticity	ngth
	Sam	Sar & F	ഗ്ര	E C O	nsc						%	% F	%	№	% F	% F	Dila	Tou	Plas	Stre
- 0 -				223.9	SD.						15	20	15	25	15	10		\equiv	\equiv	
-			5.0	0.5	35					ructure, no		20	13	25						
-																				
				220.0																
-					SP	Tan	to light bro	own poorly-graded SAND (SP), no structure, no o	dor, dry		5	5	55	30	5		\top		
- 5 -		G-2	5.0	-	SP	Tan	to light bro	own poorly-graded SAND (SP), no structure, no o	dor, moist		5	5	50	35	5				
-		40	10.0					- GLACIOFLUVIAL DE	EPOSITS -											
-				8.0			-				±:		<u> </u>					-†	_	<u> </u>
-				8.5	SP	Tan	to light bro	own poorly-graded SAND (SP), no structure, no o	dor, moist		5	5	50	35	5				
- 10 -				214.0				ROTTOM OF EVELOPAT	TION 10 0 ET											
				10.0		Nint														
						Note	e: Explorat	ion backfilled upon completion	1.											
		١٨/-	nter I	evel Dat				Commis ID	Well Diagrar	n l		<u>_</u>	21100				\sqsubseteq		=	
_)oto			psed	Dept	th (ft)		Sample ID O - Open End Rod	Riser Pipe		bur			<u>ima</u>)		10.0				
	ate	Time		hr\Bo	ottom Casing	Bottor of Hol		T - Thin Wall Tube U - Undisturbed Sample	Screen Filter San				•	•		0.0				
								S - Splitspoon Sample	ির্ণ Cuttings Grout	Sam	ple	3		G						
								G - Geoprobe	Concrete Bentonite	Seal Bor	ing	No	Э.			GF	P-14	4		
Field	d Tests	:	1	Dilatan	cy: R -	Rapid	S - Slow M - Mediu		city: N - Nonplastic rength: N - None L	L - Low M -						Ver\	/ Hia	—— h		_
† No	ote: Ma	aximum No	partic	le size is	detern	nined b	y direct ol	oservation within the limitation is ual-manual methods of the	ns of sampler size.								_			

Н		Casing Sampler Barrel Drilling Equipment and Procedures Drilling Sullison Bullson Bullson																	
Clie	oject ent ntracto	GR	ANBY	PUBLI	C SCI			FIELD AND TRACK, GRA	ANBY, CT		Sh Sta	eet art	No). 1 2	of 24 J	1 une	202		
			(Casing	Sam	pler	Barrel	Drilling Equipmen	t and Procedures								: 202	25	
Han	de Dia nmer \	Veight	(lb)	- - -	1.	5	- - -	Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch	oon Automatic hammer		Ele	eva atum	tion	1	22 N/	4.0 \VE	(es 088		
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		VISU	JAL-MANUAL IDENTIFICATIO (Color, GROUP NAME, ma) structure, odor, moisture, opti	N AND DESCRIPTION x. particle size [†] , onal descriptions	_	Coarse	Fine	Coarse	Medium		% Fines		SS	
- 0 - - -				223 9	SP-			-CRUSHED STO red-brown poorly-graded SAN	NE-	SM),	15	20	15	25	15	10			
-																			
- 5 - -		_), no structure, no odor, dry			5													
-																			
- 10 -			ΓΙΟΝ 10.0 FT																
		Wa	ater Le	evel Dat	a	Note	: Explorat					S	Sum	nma	ıry				
П	ate		Elap	sed	Dept			O - Open End Rod	Riser Pipe	Overb	our					10.0)		_
Ľ	alo	11116	Time				Water		Filter Sand	Rock	Со	red	•	()					
								G - Geoprobe	Grout Concrete Bentonite Seal	Bori	ng	No				GF	P-1	5	
L	d Tests			Toughn	iess: L	- Low		m H - High Dry St	:ity : N - Nonplastic L - Low rength : N - None L - Low							Very	/ Hig	h	
_ [™] No	ote: Ma							bservation within the limitation is ual-manual methods of the		/ Haley	y &	Ald	lric	h, Ir	nc.				

Н		Y	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION) 3-1 0.0 223.4 - TRACK RUBBER AND ASPHALT - CRUSHED STONE-SM Gray-brown to red-brown poorly-graded SAND with silt and gravel (\$ no structure, no odor, dry - FILL - 219.5 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no						l	Воі	rin	g N	No.		GI	P-1	6			
Clie	ject ent ntracto	GR	RANBY	PUBLI	C SCH			FIELD AND TRACK, GRA	NBY, CT		Sh Sta	e No leet art	No	· 1	of 24 J	1 une	202			
			(Casing	Sam	pler	Barrel	Drilling Equipment	and Procedures			nish iller			ع ا Vils		202	25		
Han	de Dia nmer \		(lb)	- - -	1.	5	- - -	Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch	oon Automatic hammer		Ele	RA F evat etum cati	tion		22	3.5 \VE	avin (es)88 n			
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		VISL	JAL-MANUAL IDENTIFICATION (Color, GROUP NAME, max structure, odor, moisture, optic	N AND DESCRIPTION a. particle size [†] , conal descriptions		% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines		SS	Plasticity	Strength
- 0 - - -		G-1 43		0.1 223.0		,		-CRUSHED STO red-brown poorly-graded SAN	NE-	SM),	15	20	15	25	15	10				
=				210.5				- FILL -												
- - 5 -		4.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor G-2 5.0 42 10.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor											5		30 40					
- -	4.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odo G-2 5.0 42 10.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odo - GLACIOFLUVIAL DEPOSITS - SP Tan to light brown poorly-graded SAND (SP), no structure, no odo																			
- 10 - - - -	G-3 10.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no or												5	25	65	5				
- 15 -				208.5 15.0				BOTTOM OF EXPLORAT	TION 15.0 FT										+	
	Water Level Data Sample ID Flansed Depth (ft) to: O One Fod Red Riser Pipe																			
			Flan			h (ft) t	:0:	·		0:::-:				ıma \						_
	ate	Time	Time	(hr Bo	ottom	Bottom of Hole	Water	T - Thin Wall Tube U - Undisturbed Sample	Screen Filter Sand	Overb Rock			•	•		15.0 0.0				
								S - Splitspoon Sample G - Geoprobe	Grout Concrete Reptopite Social	Samp Bori ı) .	G	3	GF	P-1(6		
Field	d Tests	: ::		Dilatan	cy: R-	Rapid	S - Slow M - Mediu		Bentonite Seal ity: N - Nonplastic L - Low rength: N - None L - Low							Ven	, Hia			
† No	ote: Ma			e size is	determ	ined b	direct ol	oservation within the limitation sual-manual methods of the	ns of sampler size.							v GI Y	i iigi	-		

Н		PRIC	GRANBY PUBLIC SCHOOLS-TURF FIELD AND TRACK, GRANBY, CT GRANBY PUBLIC SCHOOLS G&M SUBSURFACE Casing Sampler Barrel Drilling Equipment and Procedures							Вс	rir	ıg I	No.	i	GI	P-1	7		
Clie	oject ent ntracto	GR	'ANB	Y PUBLI	C SCI			FIELD AND TRACK, GRA	ANBY, CT	5	ile N Shee Start	t No	o. 1	of 24 J	1 une	001 = 202 = 202			
				Casing	Sam	pler	Barrel	Drilling Equipmen	t and Procedures		inis Irille			Wils					
Тур	е			-	(3	-			F	l&A	Re	ο.	C.	. Cr	avin	ho		
Insid	de Dia	meter	(in.)	-	1.	.5	-		oon		Eleva Datu		n			5 (es 088	st.)		
Han	nmer \	Weight	(lb)	-	AU	ТО	-		Automatic hammer	-	oca		5	See					
Han		Fall (in	.)	-			-	1											
Œ	Sampler Blows per 6 in.	No. (in.)	<u>ə</u> €	E 96 E	loqu		VISU	JAL-MANUAL IDENTIFICATIO	N AND DESCRIPTION	-	irave	+	Sar F				ield g		
Depth (ft)	pler E er 6 i	nple Rec.	amp pth	tratu thang Dept	S Sy						Fine	Coarse	Medium	Fine	Fines	Dilatancy	Toughness	Plasticity	Strength
	Sam	Sar & F	တ္ထ	S	nsc					0 %	8 8 8	8	N %	% F	% F	Dila	Tou	Plas	Stre
- 0 -		G-1		223.4 0.1	CD						F 20	145	25	15	10				_
-		40	5.0	0.5				red-brown poorly-graded SAN		—	5 20	וים ויכ	25	15	10				
-						no s	structure, n	o odor, dry											
								- FILL -											
				040.5															
-				4.0	SP	Tan	to light bro	own poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
- 5 -		G-2	5.0	_	SP	Tan	to light bro	own poorly-graded SAND (SP), no structure, no odor, dry			5	50	40	5				
_		35					J	- GLACIOFI UVIAL DE	POSITS -										
								CENTION ECONINE DE	-1 00110										
-																			
-																			
- 10 -				213.5															
"				10.0				BOTTOM OF EXPLORAT	TION 10.0 FT										
		٦.																	
											\perp					Ш			
		Wa		evel Dat		th /#\	to	Sample ID	Well Diagram Riser Pipe			Sur		ary					_
D	ate	Time			ottom	th (ft) Bottor	n Water	O - Open End Rod T - Thin Wall Tube	Screen	verbu		•	•		10.0				
				<u>` 10f C</u>	Casing	of Hol	ea.or	U - Undisturbed Sample S - Splitspoon Sample	Cuttings S	lock C ample		u (I	,	32	0.0	1			
								G - Geoprobe	Grout	orin		Ο.			GI	P-17	7		
Fial	d Tests	<u> </u>		Dilatan	cv: R-	Rapid	S - Slow	N - None Plastic	Bentonite Seal				· Hia	h					
			partic	Toughr	<u>iéss: L</u>	<u> - Low</u>	M - Mediu		rength: N - None L - Low M						Very	/ Higl	h		_
		No	te: S	Soil iden	tificati	ion ba	sed on vi	sual-manual methods of the	ne USCS as practiced by I	laley	& Al	dric	h, I	nc.					

Н		PRIC	Н				GEO	PROBE REPOR	т		В	ori	ing	g N	lo.		GI	P-1	8	
Clie	oject ent ntracto	GR	'ANB	Y PUBLI Y PUBLI JBSURF	C SCI			FIELD AND TRACK, GRA	ANBY, CT	9	She Star	et l t		. 1 2		1 une	202			
				Casing	Sam	pler	Barrel	Drilling Equipmen	t and Procedures		Finis Drill		E		√ ils		202			
Тур	е			-	G	3	-	Rig Make & Model: Geo		H	H& <i>F</i>	۱R	ер.		C.	Cra	avin	ho		
Insid	de Dia	meter ((in.)	-	1.	.5	-	Bit Type: Geoprobe Spo Drill Mud: None	oon		Ele\ Datı					2.0 AVD	(es	st.)		
		Veight	` '	-	AU	то	-	Casing: Push Hoist/Hammer: Winch	Automatic hammer	-	Loc			S	ee F					
Har		Fall (in.	.)	-	-	.	-	PID Make & Model: Not												
Œ	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	<u>a</u> €	Stratum Change Elev/Depth (ft)	Symbol		VISU	JAL-MANUAL IDENTIFICATIO	N AND DESCRIPTION	+	Grav Φ	_	_	Sand E		, }		ield S		
Depth (ft)	pler per 6	mple Rec.	Sample Depth (ft)	Stratu Chang	SS SS			(Color, GROUP NAME, max structure, odor, moisture, opti			Coarse	Line	Coarse	Medium	Fine	Fines	Dilatancy	Toughness	Plasticity	Strength
	Sam	Sar & F	ഗ്ര്	lo o e	nscs			GEOLOGIC INTERPR		;	S 2	S :	%	% №	₩ F	₩ ₽	Dila	린	Plas	Stre
- 0 -		G-1 40	0.0 5.0	221.9	SP-			- TRACK RUBBER AND -CRUSHED STO			15 1	20 -	15	25	15	10				
-		40	5.0	0.1 221.5 0.5	SM		,	red-brown poorly-graded SAN			3 2		13	23	13	10				
-		no structure, no odor, dry																		ĺ
								- FILL -												ĺ
				218.0																ĺ
-				4.0	SP	Tan	to light bro	own poorly-graded SAND (SP), no structure, no odor, dry			5	5	55	30	5				
- 5 -		G-2	5.0	-	SP	Tan	to light bro	own poorly-graded SAND (SP), no structure, no odor, dry				5	30	60	5				ĺ
-		42	10.0					- GLACIOFLUVIAL DE	EPOSITS -											
																				ĺ
-																				ĺ
-																				ĺ
- 10 -				212.0 10.0				BOTTOM OF EXPLORAT	TION 10 0 FT	\dashv	_									<u> </u>
						Note	. Evalorat	ion backfilled upon completion												ĺ
		n.											ĺ							
																				ĺ
																				ĺ
		\//ء	ater I	evel Dat	<u></u> а			Sample ID	Well Diagram	<u></u>	_	<u> </u>	ım	ma	rv	_	\perp			
_	ate	Time	Ela	psed	Dept	th (ft)		O - Open End Rod	Riser Pipe	Overbu						10.0	——)			_
	-ui6	111110	Time		ottom Casing	Botton of Hole		T - Thin Wall Tube U - Undisturbed Sample	Filter Sand F	Rock (٠,			0.0				
								S - Splitspoon Sample G - Geoprobe	Grout	Sampl				G						
L								G - Geoplone	Concrete Bentonite Seal	Borin	g N	No.				GF	P-18	В		
Field	d Tests): 					S - Slow M - Mediu		city: N - Nonplastic L - Low rength: N - None L - Low M							√ery	/ Higl	h		
† No	ote: Ma	aximum No	partic	le size is	detern	nined b	y direct ol	oservation within the limitation sual-manual methods of the	ns of sampler size. ne USCS as practiced by	Haley	& <i>P</i>	ldr	ich	ı, İn	IC.	_				_

Н		Y	Н				GEO	PROBE REPOR	Т		ı	Во	rin	g N	No.	ı	G	P-1	9	
Clie		GF	RANB	Y PUBLI	C SC			FIELD AND TRACK, GRA	ANBY, CT		Sh Sta	neet art	No		of 24 J	1 une	20			
				Casing	Sam	pler	Barrel	Drilling Equipmen	t and Procedures			nish iller		ے B. \			20	25		
Тур	e			-		3	-	Rig Make & Model: Geo	probe 7822DT		Нδ	&A I					avir	nho		
Insid	de Dia	meter	(in.)	_	1.	.5	_		oon			eva		1			(e			
Han	nmer \	Veight	(lb)	-	AU	то	-	Casing: Push		_		atun ocat		S	ee		088 n			
Har		all (in	ı.)	-	-		-													
æ	swo .		(n.∓	, €	loqu		VISI	•				avel	_	San	d		F		Tes	st
Depth (ft)	er Bl	ole N	mple th (f	atum ange	Sym			(Color, GROUP NAME, max	x. particle size [†] ,		Coarse	a o	Coarse	Medium	a o	es	ncy	Toughness	ξ	돭
Dep	per	am Re	Sai	Star Star	SCS			structure, odor, moisture, opti	onal descriptions		Š	Fine	Š	Me	% Fine	Fines	Dilatancy	ough	Plasticity	Strength
- 0 -	Š				Ď				<u> </u>		%	%	%	%	%	%	Ω	F	<u>_</u>	S
	46 5.0 222.5 SPCRUSHED STONE-									/ /	15	20	15	25	15	10			\vdash	
-	Gray-brown to red-brown poorly-graded SAND with silt and gravel (s								ND with silt and gravel (SP	-SM),	l l									
-	City brown to rea brown poorly graded or the man circuit and graver (e									l l										
											l									ĺ
-											l									ĺ
-	no structure, no odor, dry - FILL - SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, d SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, d									v		5	5	55	30	5				<u> </u>
٦	46 5.0 222.5 SPCRUSHED STONE- Gray-brown to red-brown poorly-graded SAND with silt and gravel (SP- no structure, no odor, dry - FILL - 219.0 4.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry									,	l	ľ								ĺ
- 5 -	G-1 46 5.0 222.9 0.1 SP SP SM Gray-brown to red-brown poorly-graded SAND with silt and gravel (SF no structure, no odor, dry - FILL - G-2 5.0 40 10.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry										l		5	50	40	5				ĺ
-	Casing Sampler Barrel Drilling Equipment and Procedures										l									
		Casing Sampler Barrel Drilling Equipment and Procedures of Sampler Barrel Drilling Equipment and Procedures of Sampler Barrel Casing Make & Model: Geoprobe 7822DT Bit Type: Geoprobe Spoon Drill Mud: None Casing: Push House's Model: Not used Wish Automatic hammer PID Make & Model: Not used Visual-Manual IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max, particle size', structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION) Geography Casing: Sport Gray-brown to red-brown poorly-graded SAND with silt and gravel (Sampler Drilling Casing) Sport Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS - Water Level Data Depth (ft) to: O - Open End Rob Type Casing) Riser Pipe									l									ĺ
											l									ĺ
-											l									
	4.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor G-2 40 10.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor - GLACIOFLUVIAL DEPOSITS -										l									
											l									
- 10 -	G-2 5.0 SP Tan to light brown poorly-graded SAND (SP), no structure, no odor, - GLACIOFLUVIAL DEPOSITS -																		\vdash	
	0 - CLACIOFLUVIAL DEPOSITS - GLACIOFLUVIAL DEPOSITS - BOTTOM OF EXPLORATION 10.0 FT										l									
	- GLACIOFLUVIAL DEPOSITS - 213.0 10.0 BOTTOM OF EXPLORATION 10.0 FT										l									
											l									ĺ
											l									
											l									ĺ
											l									ĺ
											l									ĺ
											l									ĺ
											l l									
											l									ĺ
											l l									
											l									ĺ
											l									ĺ
											l l									ĺ
		W	ater L	evel Dat	a a	1		Sample ID	Well Diagram			<u></u>	Sum	ıma	ırv		<u> </u>			_
	ate		Fla	psed	Dept			O - Open End Rod	Riser Pipe	Overb	our,					10.0)			
Ľ	ui6	Time (hr.) Bottom Bottom Water of Hole T - Thin Wall Tube U - Undisturbed Sample Screen										red	-			0.0				
		S - Orldisturbed sample S - Splitspoon Sample Grout									oles			G						
								G - Geoprobe	Concrete	Borii	ng	No	ο.			GI	P-1	9		
Field	d Tests	<u>. </u>		Dilatan	cv·R-	Rapid	S - Slow	N - None Plastic	Bentonite Seal Sity: N - Nonplastic L - Low					Hiał	า					
-iei	นาษรเร	••		Toughr	iess: L	Low	M - Mediu		rength: N - None L - Low							Ver	/ Hio	h		

Н		PRIC	Н			GEO	OPROBE REPOR	т		l	Boı	rinç	g N	No.		G	P-2	20	_
Pro Clie Cor	•	GR	ANB	/ PUBLI / PUBLI BSURF	C SCF		RF FIELD AND TRACK, GR	ANBY, CT		Sh Sta	eet art	No	. 1 2		1 une	20:			
			(Casing	Sam	pler Barre	Drilling Equipmer	nt and Procedures			nish iller			vils Nils		202	25		
Тур	е			-	G	i -	Rig Make & Model: Geo	•		Н8	&A F	? ер				bins	son		
Insid	de Dia	meter	(in.)	-	1.5	5 -	Bit Type: Geoprobe Sp Drill Mud: None	ooon			evat atum	tion				(e:	st.)		
	nmer F	Veight all (in	` '	-	AU1	го -	Casing: Push Hoist/Hammer: Winch PID Make & Model: No			_	cati		S	ee l					-
(ft)	lows 1.	No.	æ (±	n e h (ft)	Symbol	VIS	SUAL-MANUAL IDENTIFICATIO	ON AND DESCRIPTION		 	avel		Sand	d			ield g	Те	s
Depth (Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Syı		(Color, GROUP NAME, ma structure, odor, moisture, opt GEOLOGIC INTERPR	tional descriptions		% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	
0 -	Р	G1	0.0	221.7 0.3	SP-	Dank may to	-TRACK RUBBER AND		CM	10	20	20	20	20	10				Ī
	U S H		5.0		SM SP	no structure,	0 , 1 , 0	• • • • • • • • • • • • • • • • • • • •	-SIVI),	10	15	25	20	30					
							- FILL -												
5 -																			
5 -	P U	G2	5.0 10.0																
	S H																		
10 –	P	G3	10.0																
	U S		15.0																
	Н			210.0 12.0	SM		silty SAND with gravel (SM), no	-			-	-+	25	60	15				H
				209.0 13.0	SP	Red-brown to	regular dark brown sandy SILT o tan poorly-graded SAND (SP	. , ,	ace	0	0	10	40	50					l
						clayey sand													
15 –	Р	G4	15.0	_			- GLACIOFLUVIAL D	EPOSITS -											
	U S		20.0																
	Н			205.0 17.0		Tan silty SAI	ND (SM), no structure, no odor					_		70	30				F
								,											
20 -				202.0			BOTTOM OF EXPLORA	TION 20.0 FT											
						Note: Explor	ation backfilled upon completic												
		Wa	ater Le	⊥ evel Data	<u></u> а		Sample ID	Well Diagram			S	um	ma	ry	_			<u> </u>	_
D	ate	Time		sed	Deptl	h (ft) to:	O - Open End Rod	Riser Pipe Screen	Over		den	(ft))		20.0)		_	
			IIIIE			of Hole Wate	U - Undisturbed Sample	Filter Sand	Rock Sami			(ft)) G		0.0				
							S - Splitspoon Sample G - Geoprobe	Grout Concrete Bentonite Seal	Bori).	G		GF	P-2 (0		_
	d Tests		1	Dilatano	v R-	Rapid S - Slow	/ N - None Plasti	city: N - Nonplastic L - Lo	w M-N	/ledii	ım	H - I	Hiah						-

Н		t GRANBY PUBLIC SCHOOLS ractor G&M SUBSURFACE Casing Sampler Barrel Drilling Equipment and Procedures Casing Sampler Barrel Drilling Equipment and Procedures Finish 25 June 2025 Finish 25 June 2025 Finish Driller B. Wilson H&A Rep. E. Robinson Bit Type: Geoprobe Spoon Diameter (in.) - 1.5 - Drill Mud: None Der Weight (lb) - AUTO - Casing: Push Hoist/Hammer: Winch Automatic hammer PID Make & Model: Not used Sheet No. 1 of 1 Start 25 June 2025 Finish Driller B. Wilson H&A Rep. E. Robinson Elevation 222.0 (est.) Datum NAVD88 Location See Plan																		
Clie	oject ent ntracto	GR	RANBY	PUBLI	C SCF			FIELD AND TRACK, GRA	INBY, CT		Sh Sta	eet art	No	. 1 2	of 25 J	1 une	20:			
			(Casing	Sam	oler	Barrel	Drilling Equipment	and Procedures								: 20.	23		
Han	de Dia nmer \	Veight	(lb)	- - -	1.5	5	- - -	Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch	oon Automatic hammer		Ele	eva atun	tion		22 N/	2.0 AVE	(e:			
Depth (ft)	Sampler Blows per 6 in.	ample No. Rec. (in.)	Sample Depth (ft)	Stratum Change ev/Depth (ft)	SCS Symbol		VISL	JAL-MANUAL IDENTIFICATION (Color, GROUP NAME, may structure, odor, moisture, opti-	N AND DESCRIPTION c. particle size [†] , onal descriptions		Coarse	Fine		Medium		Fines		SS		
- 0 - - -	P U S		0.0	221.6 0.4	SP- SM /	no st	ructure, n	-TRACK RUBBER AND ray-brown poorly-graded SANI o odor - FILL -	ASPHALT- D with silt and gravel (SP-	-SM),	10		20	20	20	10		-		S
- 5 -	U S	G2	POSITS -																	
- 10																				
D	ate	Water Level Data Time Elapsed Depth (ft) to: Somple ID Well Diagram Summary Time Flapsed Depth (ft) to: Somple ID Well Diagram Summary O - Open End Rod T - Thin Wall Tube Soreen Filter Sand Somple ID Overburden (ft) Filter Sand Somple ID Well Diagram Summary O - Open End Rod T - Thin Wall Tube Soreen Filter Sand Somple ID O - Open End Rod T - Thin Wall Tube Soreen Soreen Filter Sand Somple ID O - Open End Rod T - Thin Wall Tube Soreen Soreen																		
L.	d Tests ote: Ma	aximum		Toughn e size is	ess: L determ	- Low ined by	y direct ol			M - Me	diun	1 H	- Hi	gh	V - '	Very	/ Hig	h		

Н		PRIC	н				GEO	PROBE REPORT	Γ			Во	rin	g N	lo.		G	P-2	2	
Clie	ject ent ntracto	GR	ANB)	Y PUBLI Y PUBLI IBSURF	C SCI			FIELD AND TRACK, GRA	NBY, CT		Sh St	e N neet art	No	. 1 2	of 5 Ju	1 une	20: 20:			
				Casing	Sam	pler	Barrel	Drilling Equipment	and Procedures			nish iller		ے B. V			. 20.	_0		
Тур	е			-	G	}	-	Rig Make & Model: Geo	•			&A F					bins			
		meter (` ′	-	1.	5	-	Bit Type: Geoprobe Spo Drill Mud: None	on			eva atun					(e: 088	st.)		
		Weight	` '	-	AU [*]	ТО	-	Casing: Push Hoist/Hammer: Winch	Automatic hammer		Lo	cati	ion	S	ee F	Plar	n			
паг		Fall (in.		- 	- =		-	PID Make & Model: Not			Gr	avel		Sano	1		F	ield	Tac	
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		VISU	JAL-MANUAL IDENTIFICATIOI (Color, GROUP NAME, max structure, odor, moisture, opti GEOLOGIC INTERPRI	κ. particle size [†] , onal descriptions		% Coarse	% Fine	% Coarse	% Medium	Fine	% Fines		SS		Strength
- 0 -	P U	G1	0.0	221.6 0.4	SP-	Dork	arov to a	-TRACK RUBBER AND ray-brown poorly-graded SANI		SM)	10	20	20	20	20	10				
-	S		5.0		SM SP	no st	tructure, n		•	SIVI),			l	20	- 1	.0				
-	''				J	Neu-	-DIOWII to	FILL -	bedded, 110 odor, dry											
- - - 5 -				217.0																
ਁ	P U	G2	5.0 10.0	5.0	ML			indy SILT (ML) with dark brow od pieces (from tree?)	ı organic soil pockets,			5		5	30	60				
-	S H							-FILL-												
-				212.0																
- 10 -				212.0 10.0				BOTTOM OF EXPLORAT	TON 10.0 FT											
D	rate	Wa Time			Dept	h (ft) Bottom	to:	Sample ID Sample ID O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	Well Diagram ☐ Riser Pipe ☐ Screen ☐ Filter Sand ☐ Cuttings ☐ Grout	Overl Rock Samp	Cooles	den ored	(ft)	1 2	10.0				
								'	Concrete Bentonite Seal	Bori						GF	P-2	2		
	d Tests			Toughn	<u>éss: L</u>	<u>- Low</u>		m H - High Dry Str	ity: N - Nonplastic L - Low rength: N - None L - Low							Very	/ Hig	h		_
NC	ote: Ma	aximum No	partic te: S	ie size is Soil iden	determ tificati	ined b	y airect ol sed on vi	bservation within the limitation is ual-manual methods of the	is of sampler size. ne USCS as practiced b	y Hale	y &	Ald	Iricl	ı, İn	IC.					

Н	Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT File No. 0206711-001																			
Clie	-	GR	ANBY	' PUBLI ' PUBLI BSURF	C SCH			FIELD AND TRACK, GRA	NBY, CT		Sh Sta	eet art	No	. 1 2	of 5 Ju		202			
			(Casing	Sam	pler	Barrel	Drilling Equipment	and Procedures			ish Iler		ے B. V			202	23		
Han	de Dia nmer \	meter (Veight Fall (in.	(lb)	- - -	1.5 AU	5	- - -	Rig Make & Model: Geop Bit Type: Geoprobe Spo Drill Mud: None Casing: Push Hoist/Hammer: Winch PID Make & Model: Not	oon Automatic hammer		Ele Da	evat tum	Rep tion n ion		22 N <i>A</i>	Rol 2.0 AVD Plar	(es			
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Ш	USCS Symbol		VISL	JAL-MANUAL IDENTIFICATION (Color, GROUP NAME, max structure, odor, moisture, option GEOLOGIC INTERPRE)	N AND DESCRIPTION a. particle size [†] , conal descriptions		% Coarse	_	% Coarse	% Medium		% Fines		Longhness eigh	Plasticity a	
- 0 -	Р	G1	0.0	221.7 0.3	GW-	David		-TRACK RUBBER AND		10/	10	20	20	20	20	10				
-	U S		5.0	221.0 1.0	GC			gray-brown poorly-graded SA ure, no odor	ND with silt and gravel (G	/VV-				20		\exists				
-	H				SP	Red- dry	brown to	- FILL - tan poorly-graded SAND with و	gravel (SP), bedded, no o	dor,										
-								- GLACIOFLUVIAL DE	POSITS -											
- 5 - - -	P U S H	G2	5.0 10.0	212.0 10.0																
10				10.0				BOTTOM OF EXPLORAT	TION 10.0 FT											
		Wa	nter I e	avel Dat		Note	: Explorat	ion backfilled upon completion					Šum.	ma	TV.					
			Flan	evel Dat		h (ft)	io:	Sample ID	Well Diagram Riser Pipe	Over	hı			ımaı \						
	ate	Time	Time	(hr Bo	ottom	Bottom	Water	O - Open End Rod T - Thin Wall Tube	Screen	Overl Rock			•	•		10.0 0.0				
				UI C	,aaii iy	of Hole		U - Undisturbed Sample S - Splitspoon Sample	Filter Sand Cuttings	Samp			(11	<i>)</i> G		U.U				
				Dillet		D- · ·		G - Geoprobe	Grout Concrete Bentonite Seal	Bori	ng	Nc				GF	P-2:	3		
L.	d Tests			Toughn	iess: L	- Low		m H - High Dry Str	ity: N - Nonplastic L - Lovength: N - None L - Low							√ery	Hig	h		
_ [™] No	ote: Ma							oservation within the limitation sual-manual methods of th		y Hale	y &	Ald	lrich	ı, İn	IC.					

Н		Y	н				GEO	PROBE REPORT	Γ		I	301	rin	g N	lo.		GI	P-2	24	
Clie	ject ent ntracto	GR	RANBY	' PUBLI ' PUBLI BSURF	C SCF			FIELD AND TRACK, GRA	NBY, CT		Sh Sta	eet art	No		of 5 J	1 une	202			
				Casing	Sam	oler	Barrel	Drilling Equipment	and Procedures			iish iller		ے B. V			202	23		
	de Dia	meter	`	-	G 1.	5	-	Rig Make & Model: Geor Bit Type: Geoprobe Spo Drill Mud: None			Ele		Rep tion า		22		bins (es			
	nmer I	Weight Fall (in	` ′	-	AU1	го	-	Casing: Push Hoist/Hammer: Winch A PID Make & Model: Not					on		ee I	Plar				
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol		VISL	JAL-MANUAL IDENTIFICATION (Color, GROUP NAME, max structure, odor, moisture, optic GEOLOGIC INTERPRE	particle size [†] , onal descriptions		% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines		Longhness ei		
- 0 -	P U	G1	0.0	222.1 0.4	SP-	Dork	arov to a	-TRACK RUBBER AND ray-brown poorly-graded SANE		SM)	10	20	20	20	20	10				
-	S		5.0	221.5 1.0	SM		ructure, n		o with siit and graver (SP-	·SIVI), /				25						
_	Н				SP	\		- FILL -												
						Red- dry	brown to	tan poorly-graded SAND with ç	gravel (SP), bedded, no o	dor,										
=								- GLACIOFLUVIAL DE	POSITS -											
- 5 - - -	P U S H	G2	5.0 10.0																	
- 10 - - - -	P U S H	G3	10.0 15.0																	
-					CD	Dad		CAND with	manual (CD) was about the						400					
- 15 -				207.5 15.0	SP	odor,		wn poorly-graded SAND with (100					
						Note	: Explorat	BOTTOM OF EXPLORAT												
		Wa	ater Le	vel Data				Sample ID	Well Diagram			S	um	ma	ry					
D	ate	Time	Elap Time	(hr Bo	ottom	n (ft) t Bottom of Hole	Water	O - Open End Rod T - Thin Wall Tube	Riser Pipe Screen Filter Sand	Overl Rock			•	•		15.0 0.0				
				01 0	rusii ly	oi Hole		U - Undisturbed Sample S - Splitspoon Sample	ি প্র ৈ Cuttings	Samp			(it	, G		0.0				
	Grout Concrete Bentonite Seal Grout Boring No. GP-24																			
Field	d Tests	;: :		Dilatano Toughn	cy: R-l	Rapid - <u>L</u> ow	S - Slow M - Mediu		ity: N - Nonplastic L - Low ength: N - None L - Low							√erv	Hia	<u>h</u>		_
† No	ote: Ma	aximum No	particlote: S	e size is	determ	ined by	direct ol	oservation within the limitation is ual-manual methods of the	ns of sampler size.											

Н		Y	Н			(GEO	PROBE REPORT	Γ		E	Зо	rin	g N	lo.		GI	P-2	5	
Clie	ject ent ntracto	GR	ANBY	' PUBLI ' PUBLI BSURF	C SCH			FIELD AND TRACK, GRA	NBY, CT		Sh Sta	eet art	No		of 25 J	1 une	202			
			(Casing	Sam	pler	Barrel	Drilling Equipment	and Procedures			iish iller		ے B. V			202	23		
Тур	е			-	G		-	Rig Make & Model: Geor			Н8	kA F	Rep).	E.	Ro	bins	on		
Insid	de Dia	meter	(in.)	-	1.4	5	-	Bit Type: Geoprobe Spo Drill Mud: None	oon			eva itum	tion	1			(es 088	st.)		
Han	nmer \	Veight	(lb)	-	AU ⁻	го	-	Casing: Push					ion	S	ee l					
Han		all (in	.)	-	-		-	Hoist/Hammer: Winch A PID Make & Model: Not												
£	Sampler Blows per 6 in.		o£	Stratum Change Elev/Depth (ft)	Symbol		VISU	JAL-MANUAL IDENTIFICATION	N AND DESCRIPTION			vel	_	Sand	d			ield ω	Tes	st .
Depth (ft)	er Bl	ple l	Sample Depth (ft)	ange Jepth	Syn			(Color, GROUP NAME, max			Coarse	e)	Coarse	Medium	e)	es	ncy	seuc	city	gth
Dep	ampl	Sample No. & Rec. (in.)	Sa Dep	Str Seven	nscs			structure, odor, moisture, optio GEOLOGIC INTERPRE	onal descriptions ETATION)		% Co	% Fine	% Co	% Me	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
- 0 -	ν P	G1	0.0	222.2 0.3				-TRACK RUBBER AND	ASPHALT-										ш.	0)
	U		5.0	221.5	SP- SM			ray-brown poorly-graded SANI		SM),				20		10				
	S H			1.0	SP	no str	ucture, n	o odor - FILL -		/	0	0	10	40	50					ĺ
-								tan poorly-graded SAND (SP), raded bedding coarse to fine s		ce										ĺ
-						,-	,, 3	- GLACIOFLUVIAL DE												ĺ
								- GLACIOPLOVIAL DE												ĺ
- 5 -	Р	G2	5.0	1																
-	U S		10.0																	
	Н																			
-																				
-																				ĺ
- 10 -																				ĺ
- 10 -	P U	G3	10.0 15.0																	ĺ
-	S		10.0																	
-	H																			
-																				
- 15 -				207.5 15.0					ION 15 0 FT											
				15.0				BOTTOM OF EXPLORAT												
						Note:	Explorat	ion backfilled upon completion	l.											
		347	-to- !	NO D-1				T 6	Well Diagram			_	<u></u>	<u></u>						
			Flan	evel Data		h (ft) to	D:	Sample ID O - Open End Rod	Well Diagram Riser Pipe	Overl	hur			nma N		15 (`			
D	ate	Time	Time	(hr Bo	ttom	Bottom of Hole	Water	T - Thin Wall Tube	Screen Filter Sand	Rock			•	•		15.0 0.0				
				3, 0	201119	SI TIOIC		U - Undisturbed Sample S - Splitspoon Sample	ិ្ទៈទី Cuttings	Samp			_ '.'	G		5.0				
								G - Geoprobe	Grout Concrete	Bori	ng	No).			GF	P-2	5		
Field																				
			particl	<u>Toughn</u>	ess: L	<u>- Low 1</u>	<u>M - Mediu</u>		ength: N - None L - Low							Very	/ Hig	h		_
		No	te: S	oil iden	tificati	on bas	ed on vi	sual-manual methods of th	e USCS as practiced b	y Hale	y &	Ald	Iric	h, Ir	ıc.					

Н	Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT File No. 0206711-001																			
Clie	-	GR	ANBY	′ PUBLI ′ PUBLI BSURF.	C SCF			FIELD AND TRACK, GRA	NBY, CT		Sh St	neet art	No). 1 2	of 25 J	1 une	202			
			(Casing	Sam	oler	Barrel	Drilling Equipment	and Procedures			nish iller		ے B. \			202	25		
Тур	е			-	G		-	Rig Make & Model: Geo			Н	&A F	Rep).	E.	Ro	bins	son		
Insi	de Dia	meter	(in.)	-	1.5	5	-	Bit Type: Geoprobe Spo Drill Mud: None	oon			eva atun		1		2.5 4VE	es	st.)		
Han	nmer \	Veight	(lb)	-	AU	го	-	Casing: Push Hoist/Hammer: Winch	Automatic hammer			cat		S		Plar				
Har		all (in	.)	-	-		-	PID Make & Model: Not												
Œ	Sampler Blows per 6 in.	No.)	æ Œ	Stratum Change Elev/Depth (ft)	Symbol		VISU	JAL-MANUAL IDENTIFICATION	N AND DESCRIPTION			avel	1	San	_			ield ss		
Depth (ft)	pler E er 6 i	Sample No. & Rec. (in.)	Sample Depth (ft)	tratu Shang /Depi	SSy			(Color, GROUP NAME, max structure, odor, moisture, opti			Coarse	Fine	% Coarse	% Medium	ine	% Fines	Dilatancy	Toughness	Plasticity	Strength
	Sam	Sar & F	S	S	nscs			GEOLOGIC INTERPRI	ETATION)		S %	% F	S %	№ №	% Fine	% F	Dila	Tou	Plas	Stre
- 0 -	P U	G1	0.0		SP-			ray-brown poorly-graded SAN	D with silt and gravel (SP-	SM),	10	20	20	20	20	10				
-	S		5.0	221.5 1.0	SM	no s	tructure, n	o odor		/	0	0	10	40	50	\vdash				
-	H					Red	-brown to	- FILL - tan poorly-graded SAND (SP).	hedded no odor dry tra	ce										
								raded beds, coarse grain on to		00										
								- GLACIOFLUVIAL DE	POSITS -											
F																				
- 5 -	P	G2	5.0	1																
-	U S		10.0																	
	H																			
-																				
-																				
- 10 -				212.5 10.0																
				10.0				BOTTOM OF EXPLORAT												
						Note	: Explorat	ion backfilled upon completior	1.											
L	<u> </u>					<u> </u>								<u> </u>			\bigsqcup			L
		Wa		evel Dat) /f+\	to:	Sample ID	Well Diagram Riser Pipe					nma						
D	ate	Time	Elap Time	(hr Bo	ottom	n (ft) Bottom	1 Water	O - Open End Rod T - Thin Wall Tube	Screen	Overl Rock			•	•		10.0				
				Or C	Casing	of Hole		U - Undisturbed Sample S - Splitspoon Sample	Filter Sand Cuttings	Samp			(11	G		0.0				
	G - Geoprobe S - Splitspoon Sample Grout Concrete Boring No. GP-26																			
Fiel	d Tests	 :		Dilatan	cy: R-	Rapid	S - Slow		Bentonite Seal ity: N - Nonplastic L - Lov	v M - N	1edi	um	Н-			<u> </u>				
L.		aximum		e size is	determ	ined b	y direct o	oservation within the limitation								Very	/ Hig	h		
Щ		No	te: S	oil iden	tificati	on ba	sed on vi	sual-manual methods of th	e USCS as practiced b	y Hale	y &	Alc	Iric	h, Ir	ıc.					

Fig. Contractor Cashae Public Schools Turk FletD AND TRACK, GRANBY, CT Stat Schools Schools Stat Schools	Н	GEOPROBE REPORT Boring No. GP-27 Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT File No. 0206711-001																			
Type	Clie	ent	GR	RANBY	PUBLI	C SCF			FIELD AND TRACK, GRA	NBY, CT		Sh Sta	eet art	No	. 1 2	of 5 J	1 une	20:			
Inside Diameter (in.)				(Casing	Sam	oler	Barrel	Drilling Equipment	and Procedures								: 20.	23		
Hammer Weight (tib) AUTO - Casing Push Hammer Fall (in) Casing Push Ha			meter	(in.)	-			-	Bit Type: Geoprobe Spo			Ele	eva	Rep	١.	E.	Ro 2.0	(es			
P		nmer I	J	` '	-	-	ГО	-	Casing: Push Hoist/Hammer: Winch					-	S						
P	£	ows	л.) Г.)	e £	£ (#)	loqu		VISU	JAL-MANUAL IDENTIFICATION	N AND DESCRIPTION			ivel	_		t				Tes	st
S		Sampler B per 6 in	Sample I & Rec. (i	Sampl Depth (Stratun Change Elev/Depth	USCS Syr			structure, odor, moisture, optic	onal descriptions		% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughnes	Plasticity	Strength
Red-brown to tan poorly-graded SAND with gravel (SP), bedded, no odor, dry, trace SP Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace SP Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace SP Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace SP Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace O 0 10 40 50 BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion. Well Diagram Riser Fipe Screen Screen File Sand Screen File S	-	U S	G1		221.0 1.0	SM		0 , 0	, , , ,	O with silt and gravel (SP-	SM),		l				10				
SP Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace 0 0 10 40 50 clayey sand SP Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace 0 0 10 40 50 layey sand BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion. Sample ID Well Diagram Size Pipe Seven Completed Seven Comp	-					J.		brown to		gravel (SP), bedded, no o	dor,										
Water Level Data Date Time Elapsed Depth (ft) to: Time (r) Gasing of Hole Gasing	=								- GLACIOFLUVIAL DE	POSITS -											
The letter of Casing of Hole Clayey sand	- 5 - -	U S	G2																		
Note: Exploration backfilled upon completion. Note: Exploration backfilled upon completion.	-					SP			tan poorly-graded SAND (SP),	bedded, no odor, dry, tra	ce	0	0	10	40	50					
Water Level Data Date Time Elapsed Depth (ft) to: Time (hr. Bottom of Casing of Hole Time (hr. Bottom of Casing of Hole Time (hr. Bottom of Casing of Hole Time (hr. Bottom of Casing of Hole Time (hr. Bottom of Casing of Hole Time (hr. Bottom of Casing of Hole Time (hr. Bottom of Casing of Hole Time (hr. Bottom of Casing of Hole Time (hr. Bottom of Casing of Hole Time (hr. Bottom Bottom Of Casing of Hole Time (hr. Bottom Bottom Of Casing of Hole Time (hr. Bottom Bottom Of Casing of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Casing Of Hole Time (hr. Bottom Bottom Of Hole Time (hr. Bottom Bottom Bottom Of Hole Time (hr. Bottom Bottom Bottom Of Hole Time (hr. Bottom Botto	- 10 -				212.0 10.0				BOTTOM OF EXPLORAT	TION 10.0 FT											
Field Tests: Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High	D	ate		Elap	evel Dat	Depti	n (ft)	to:	Sample ID O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample	Well Diagram Riser Pipe Screen Filter Sand Cuttings Grout	Rock Samp	Cooles	den red	(ft)	1	0.0		7		
Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High † Note: Maximum particle size is determined by direct observation within the limitations of sampler size.	Field	d Tests	 ::		Dilatan	cy: R-	Rapid	S - Slow		Bentonite Seal ity: N - Nonplastic L - Lov	v M - N	1ediu	ım	Н-							
	L		aximum		Toughn e size is	ess: L determ	- Low ined b	M - Mediu y direct ol	m H - High Dry Str bservation within the limitation	ns of sampler size.							Very	/ Hig	h		