

October 29, 2012

AECOM
200 Indiana Avenue
Stevens Point, WI 54481

NTS Project No. 15366_STR

Attention: Mr. Kyle Wagoner
kyle.wagoner@aecom.com

Subject: Subsurface Soil Investigation Report
East Park Commerce Center
Certified Site Program
762-Acre Site
Stevens Point, WI

As requested, Nummelin Testing Services, Inc. has conducted a Geotechnical Engineering Subsurface Investigation and Report for the above named project. We enclose our report, "Subsurface Soil Investigation, East Park Commerce Center, Certified Site Program, 762-Acre Site, Stevens Point, WI – NTS 153.66," which discusses our conclusions and recommendations.

If additional information or clarification is needed, or if we may be of further service during the construction phase of the project, please do not hesitate to contact our office.

The soil samples will be discarded after January 1, 2013, unless other instructions are received prior to that date.

Respectfully,



Benjamin K. Nummelin, P.E.
NUMMELIN TESTING SERVICES, INC.

bkn/bn

encl. report & logs
abandonment forms
location sketch

SUBSURFACE SOIL INVESTIGATION

EAST PARK COMMERCE CENTER
CERTIFIED SITE PROGRAM
762-ACRE SITE
STEVENS POINT
WISCONSIN

NTS 153.66

C12044

PREPARED FOR:

AECOM
200 INDIANA AVENUE
STEVENS POINT, WI 54481

ATTENTION: MR. KYLE WAGONER

FIELD INVESTIGATION BY:

NUMMELIN TESTING SERVICES, INC.
STEVENS POINT / WAUNAKEE, WI

OCTOBER 29, 2012

SUBSURFACE SOIL INVESTIGATION

EAST PARK COMMERCE CENTER CERTIFIED SITE PROGRAM 762-ACRE SITE STEVENS POINT WISCONSIN

1. SUMMARY

This section contains summary information only and is limited in detail. Recommendations given in following report sections should be reviewed prior to design and construction.

As requested, Nummelin Testing Services, Inc. (NTS) performed a subsurface soil investigation with 20 borings, each to a depth of 20 feet, at the above-named site to provide general subsurface information. Additional investigation is recommended for individual building sites to provide more site-specific information.

In general, the soils encountered in the borings on the 762-acre site were sands that appeared suitable for commercial development after typical site preparation such as topsoil stripping, vegetation grubbing, and site grading. A site-specific investigation is recommended to determine bearing capacity at individual sites and suitability for pavement support, but the native sands are expected to have a bearing capacity between 2,500 and 4,000 pounds per square foot (psf) for footings 6 feet in width or less and a modulus of subgrade reaction of 150 to 300 pounds per square inch per inch.

Some borings found clayey sands and sands with some silt in the top 3.5 to 9 feet which likely will be suitable for use in infiltration device construction. However, sands at deeper depths contained little or no silt and likely will not be adequate for infiltration device construction.

Groundwater was encountered generally below depths of 13.5 feet. However, in the absence of irrigation, long term water levels may be significantly higher than those encountered during boring. Bedrock is not expected to be encountered in excavations within the boring limits.

The sands encountered in the borings should be suitable for reuse as structural fill if they are not too wet for compaction at the time of construction. Some sands encountered in the top 3.5 to 9 feet contained significant amounts of silts/clays, and obtaining good compaction of these sands will be more difficult. The silty/clayey sands may be better suited for use as fill in 'green' areas rather than in structural areas.

Most surface and near-surface soils will become soft if they are wet when exposed to construction traffic. A layer of crushed rock placed in driveways and staging areas may help to avoid subgrade disturbance and prevent construction delays because of muddy, impassible terrain.

Some near surface soils will retain water for periods of days to weeks. The site should be graded to promote drainage including positive drainage away from buildings and rain gutters to route roof runoff away from buildings. A pavement cross-slope of two percent is recommended to promote drainage in paved areas. All drainage measures should be routed to a suitable outlet.

2. INTRODUCTION

Nummelin Testing Services, Inc. (NTS) performed this investigation for the purpose of providing soils information for the 762-acre site that is to be East Park Commerce Center located from CTH 'HH' to the railroad tracks roughly one mile north of CTH 'HH, and from roughly 1,200 feet east of Brilowski Road to Burbank Road in the Town of Hull, Town of Plover, Town of Stockton, and City of Stevens Point, Portage County, Wisconsin. The results and recommendations reported are based upon information obtained during a field investigation with borings and the geotechnical analysis of that information.

The conclusions and recommendations reported are based on our interpretation of available subsurface and project information. The report may not represent variations that occur between or away from boring locations.

Should the scope of this project be altered, or if subsurface variations become evident during construction, it may be necessary to modify our recommendations. See the attached Geotechnical Engineering Report Information sheet for general information on NTS's geotechnical reports.

3. PROJECT DESCRIPTION

The proposed project is the future development of the project area. Construction details were not known at the time of this report. However, slab-on-grade warehouse-type buildings supported by shallow foundations, parking lots, driveways, access roads, and infiltration devices are expected to be constructed. Some site grading is anticipated to establish final grades.

At the time of the investigation, the site was predominantly farm fields, some which had been tilled and planted. The site sloped gently downward from east to west and from north to south.

4. FIELD INVESTIGATION

Twenty borings were performed from October 15 to 23, 2012, at the locations shown on the attached map. NTS determined the proposed boring locations and depths. NTS also located the borings in the field. Some borings were moved from proposed locations because of access problems as a result of crops on fields. All borings were drilled approximately at the proposed locations and were terminated at the proposed depth of 20 feet.

Standard penetration sampling was performed during boring according to ASTM Test Procedure D1586 at the depths indicated on the boring logs with an automatic-trip hammer. Drilling between samples was by the hollow-stem-auger technique. Soil samples taken from the site have been examined in the lab by this writer to verify soil descriptions. Soil classifications and parameters reported are based on field testing, soil descriptions, and the results of 15 gradation tests on samples selected by NTS. The gradation tests were performed by mechanical sieving according to ASTM D422 after washing the samples according to ASTM D1140. No other lab tests were performed. Gradation test results are appended.

Ground elevations are to be determined by Point of Beginning, Inc.

After completion of the borings, the bore holes were backfilled with bentonite chips to comply with WDNR requirements, and the last few inches were filled with auger cuttings.

Copies of the soil boring logs and a location sketch are appended to this report.

5. SUBSURFACE CONDITIONS

5.1. Area Geology

The subsoils in this area are mapped as outwash deposits, which typically consist of stratified sand and/or stratified sand with gravel. The underlying bedrock is mapped as granite and quartz monzonite that is present at widely varying depths, but generally at depths of greater than 50 feet below the average surface terrain. The NRCS web soil survey maps the near surface soils at the site primarily as Billett sandy loam and Richford loamy sand, with small areas of Oesterle sandy loam, Pearl loamy sand, Rosholt sandy loam, and Rosholt loam.

Mapped soil and bedrock conditions are provided for supporting information only. We do not recommend basing any design on mapped or assumed conditions.

5. 2. Soils at the Boring Locations

A summary of soil conditions encountered in the borings is shown in Table 5. 2.

Table 5. 2. Summary of Subsurface Conditions in the Borings.

Boring	Water Depth	Topsoil Depth	Sand w Silt/Clay	Sand w Little/No Silt	Boring	Water Depth	Topsoil Depth	Sand w Silt/Clay	Sand w Little/No Silt
1	9'	10"	-	10"- 20'	11	14'	8"	8"- 3.5'	3.5'- 20'
2	14.5'	12"	12"- 3.5'	3.5'- 20'	12	14.5'	5"	5"- 3.5'	3.5'- 20'
3	14'	8"	-	8"- 20'	13	15'	8"	8"- 3.5'	3.5'- 20'
4	17'	8"	8"- 3.5'	3.5'- 20'	14	17.5'	6"	-	6"- 20'
5	14.5'	10"	-	10"- 20'	15	14'	9"	-	9"- 20'
6	13.5'	12"	-	12"- 20'	16	14'	7"	-	7"- 20'
7	17.5'	11"	11"- 6'	6'- 20'	17	14.5'	7"	-	7"- 20'
8	14'	10"	10"- 3.5'	3.5'- 20'	18	14'	8"	8"- 9'	9'- 20'
9	17'	12"	-	12"- 20'	19	17.5'	10"	10"- 3.5'	3.5'- 20'
10	18'	8"	8"- 3.5'	3.5'- 20'	20	17'	8"	8"- 3.5'	3.5'- 20'

Dark brown silty sand with organics (topsoil), 5 to 12 inches in thickness, was encountered at all boring locations. Below the topsoil, most soil encountered was loose to medium-dense poorly-graded sand with varying amounts of gravel. Sands encountered in the top 3.5 feet of Borings 2, 4, 7, 8, 10 through 13, 19, and 20, in the top 6 feet of Boring 7, and the top 9 feet of Boring 18 where clayey sands and sands with some silt. Sands elsewhere and at deeper depths contained little or no silt. The sand was generally brown in the top 3.5 to 9 feet and light brown at deeper depths. All borings were terminated at a depth of 20 feet.

See the boring logs for more detailed soil descriptions.

5. 3. Water Level Measurements

Groundwater was encountered in all borings, generally at depths of 13.5 to 18 feet, except in Boring 1 where groundwater was encountered at 9 feet. These moisture conditions should be considered as representative of the site at the time of boring only. It is possible that irrigation has lowered the groundwater table at this site, and long-term groundwater levels may be significantly higher than those encountered in the borings. Expect seasonal fluctuations in the groundwater table of up to several feet.

6. DISCUSSION AND RECOMMENDATIONS

6. 1. Site Grading and Preparation

Strip the topsoil and vegetation, including tree and brush roots, from proposed structure and pavement areas prior to further site grading. The topsoil is likely to compress, probably unevenly below structures, and should be removed.

After the site has been stripped of topsoil and grubbed, the site may be filled to final grades. The sands should be suitable for reuse as structural fill if they are not too wet at the time of construction. Some sands contained appreciable amounts of silt and clay in the top 3.5 to 6 feet that may be better suited for use as fill in ‘green’ areas rather than in structural areas.

Most surface and near-surface soils will become soft if they are wet when exposed to construction traffic. A layer of crushed rock placed in driveways and staging areas may help to avoid subgrade disturbance and prevent construction delays because of muddy, impassible terrain.

6. 2. Foundations

Foundations for structures sensitive to frost movement should bear below the frost line. For building construction purposes, the frost line should be considered to be 4 feet below the ground surface.

The native sands are expected to provide adequate support for spread/strip footings. After footing excavations are made, verify that the soils at the base of the excavation are not too wet for compaction, then compact the base of the excavations with a high energy, vibratory compactor such as with a vibratory plate mounted on a backhoe or with a smooth-drum, vibratory roller weighing 10,000 pounds or more. A site-specific investigation is recommended to determine bearing capacity at individual sites, but the native sands are expected to have a bearing capacity between 2,500 and 4,000 pounds per square foot (psf) for footings 6 feet in width or less.

The bearing capacity of the soils on which foundations will rest should be field verified at the time of construction by NTS. NTS will provide alternate recommendations, including undercutting or compacting existing soils, if adequate bearing capacity is not present.

If the recommendations in this report are followed, settlement of footing foundations are expected to be limited to one inch.

6. 3. Floors and Slabs

The native sands below the topsoil are expected to provide adequate support for floors and slabs-on-grade. After floor excavations are made, verify that the soils at the base of the excavation are not too wet for compaction, then compact the base of the excavations with a high energy, vibratory compactor such as with a vibratory plate mounted on a backhoe or with a smooth-drum, vibratory roller weighing 10,000 pounds or more. A site-specific investigation is recommended to determine modulus of subgrade reaction, but the native sands are expected to have a modulus of subgrade reaction of 150 to 300 pounds per square inch per inch for floor and slab design.

A layer of 1¼ inch dense-graded base course, at least 8 inches in thickness, is recommended to be placed below floors and slabs. The base course will help to provide stability for the floors/slabs and help to prevent subgrade soils from rutting below construction traffic. The base course should meet the requirements of Section 305 of the Wisconsin DOT Standard Specifications for Highway and Structure Construction, and the base course should be compacted according to Section 6.5 of this report.

6. 4. Excavation

All excavations should comply with OSHA standards. This includes cutting excavation sidewalls at slopes no steeper than 1.5 horizontal to 1 vertical unless the excavation is properly braced. Braced excavations should use full bracing, not spaced braces.

Most common excavators (backhoes) are expected to be able to make the necessary excavations within the boring limits.

Groundwater was encountered in all borings, generally at depths of 13.5 to 18 feet, except in the boring the southwest corner of the site where groundwater was encountered at 9 feet. Expect that excavations near or below these depths to encounter groundwater. Be aware that the site was predominantly farm fields which were irrigated at the time of the investigation, and long term groundwater levels, in the absence of irrigation, may be significantly shallower than those encountered during boring. Where groundwater is encountered, dewater prior to further excavating. Dewater using a method which draws water from outside the excavated area, such as with well points or deep wells placed well outside the excavation. Sump pumping from within the excavation should be avoided because this may loosen the soil below the pumps as water flows upward to the pumps. The very loose soil may compress when the structure is placed over the very loose soil, resulting in settlement and structure damage.

Undercutting is not expected to be necessary. However, should undercutting be required, the recommended width of undercut is twice the undercut depth plus the width of the load-bearing area, measured at the bottom of cut. If the load-bearing area is accurately marked and centered

in the base of the undercut, then the minimum width of the undercut is the depth of undercut plus the width of load-bearing area, measured at the base of the undercut. A good practice is to add at least one foot to this width. Replace all undercut soils with properly compacted fill (see section 6.5. “Compaction and Fill Requirements”). Use the 60-degree approximation to determine the resulting pressure at the base of the undercut.

Bedrock is not expected to be encountered in excavations within the boring limits.

Excavations should be performed with a flat plate attached to the bucket teeth of the backhoe to minimize the disturbance at the base of the excavation. Where a toothed bucket is used, the last six inches (roughly) should be excavated by turning the bucket so that the teeth are parallel to the proposed grade, thus minimizing the disturbance of footing-grade soils. Any soil loosened during excavation should be compacted.

6.5. Compaction and Fill Requirements

The native soils encountered below the topsoil, if the moisture content is suitable for compaction at the time of construction, should be suitable for reuse as structural fill. Be aware that obtaining adequate compaction of the existing silty and clayey sands will be moisture dependent and may be difficult. It may be better to use the silty/clayey soils in ‘green’ areas. Where imported fill is required, NTS recommends unsaturated granular soil that has no particles larger than 3 inches, that has less than 15 percent passing the number 200 sieve, and that is free of deleterious substances such as peat, wood, sod, snow, ice, frozen soil, and construction debris. At the time of construction, NTS should verify that the proposed fill soils are acceptable. NTS will verify that the moisture content is appropriate for proper compaction and that the fill contains no deleterious materials. Frozen soil should not be used as structural fill.

Any required fill should be placed in lifts not exceeding 1 foot (uncompacted).

Compact fill placed to at least 95% of the maximum dry density (modified Proctor method - ASTM D-1557). Site or soil conditions at the time of construction may warrant a change in the recommended compaction levels and/or techniques. However, no changes should be made without review by NTS or another qualified soils engineering firm.

Vibratory compaction of soil near or below the water table may cause the soil to become quick (liquefaction) and ‘flow’. Prior to compaction of soil near or below the water table, drop the water table at least 2 feet below the exposed grade. Use of light compaction equipment in conjunction with thinner lifts may also help to avoid liquefaction while still achieving the required compaction levels.

6. 6. Pavement Design

Pavement design is typically controlled by the near surface soils within the frost zone. Soils encountered within the frost zone at this site ranged from sands with little or no silt to clayey sands and sands with some silt. These sands are moderate to good soil types for pavement design. A site specific investigation is recommended to determine local pavement design parameters. The following are general pavement design parameters based on the most frost susceptible soil type found by the borings, and are the recommended parameters for pavement design in the absence of a site specific soils investigation.

The clayey sands and sands with some silt are moderately frost susceptible with a Frost Group Designation of F-3 and an estimated Design Group Index (DGI) of 10. Based on the DGI, the soil support value (SSV) is 4.5 considering a Regional Factor of 2. The silty/clayey sands are USCS classified as SM and SC and AASHTO classified as A-2-4 and A-2-6. A CBR test was not performed. However, the CBR factor for sands is estimated to be 8. A subgrade modulus of 200 pounds per cubic inch should be used for pavement and slab design on the soils at this site. The sands have a very low shrink/swell potential as a result of moisture loss/gain.

If flexible (asphaltic concrete) pavement is used, the following asphaltic concrete and crushed aggregate base course thicknesses from the “Wisconsin Asphalt Pavement Association Design Guide” are recommended. The thicknesses are based on the expected design daily ESALs (18,000 pound Equivalent Single Axle Loads) for pavement over a ‘medium’ subgrade. Subgrades with CBRs of 6 to 10 are classified as ‘medium’ according to the Wisconsin Asphalt Pavement Association Design Guide.

In general, traffic pavements experiencing loads around 1 to 5 design daily ESALs range include car parking lots, residential streets, and similar traffic loads. Pavements experiencing loads in the 6 to 50 design daily ESALs range include collector streets, industrial lots, truck stalls, loading zones, and similar traffic loads. Pavements experiencing loads in the 51 to 275 design daily ESALs range include major service drives or entrances, arterial streets, industrial streets, and similar traffic loads.

6. 6. 1. Flexible Pavement, 1 to 5 Design Daily ESALs

Use a minimum of 8 inches of crushed aggregate base course with a minimum of 3 inches of asphaltic concrete.

6. 6. 2. Flexible Pavement, 6 to 50 Design Daily ESALs

Use a minimum of 9 inches of crushed aggregate base course with a minimum of 5 inches of asphaltic concrete.

6. 6. 3. Flexible Pavement, 51 to 275 Design Daily ESALs

Use a minimum of 11 inches of crushed aggregate base course with a minimum of 7 inches of asphaltic concrete.

If the expected daily traffic loads are greater, plan to increase these thicknesses.

Where heavy trucks will turn or be standing on asphaltic concrete pavement sections, a mix with a very high stability number, designed to withstand the loading of heavy trucks, is recommended. The E-10 Job Mix Formula (JMF), or higher numbered JMF, from the Wisconsin DOT Standard Specifications for Highway and Structure Construction is suggested in such areas.

Rigid (Portland cement concrete - PCC) pavement tends to hold up better than asphaltic concrete under heavy truck traffic and is recommended in areas experiencing high static shear stress or where heavy trucks must make turns. A PCC slab thickness of at least 8 inches is recommended for heavy traffic loads. A slab thickness of at least 6 inches is recommended for other parking areas unless local experience has shown a thinner slab to perform adequately. There is no specified numerical thickness for the base course layer below a PCC slab, but the base course layer should be thick enough to provide stability for the slab.

The pavement construction should meet the requirements of the Wisconsin DOT Standard Specifications for Road and Bridge Construction.

A prime requirement for successful pavement is preparation of the subgrade soil. At the time of base course placement, the subgrade should be firm when proof-rolled. An acceptable proof-roller for silt/clay would be a fully-loaded, tandem-axle dump truck. An acceptable proof-roller for granular soil (sand and/or gravel) would be a smooth-drum vibratory roller. The subgrade may yield slightly to the proof-roller, but after base course placement, the base grade should be unyielding to fully-loaded, tandem-axle, dump trucks. This requirement also applies after the completion of any undercut.

It may be necessary to stabilize areas of the subgrade with crushed rock or breaker run rock to provide stability for pavement. Any rock used to stabilize a soft subgrade should not be considered as part of the base course thickness.

6. 7. Drainage

Most near surface soils at the site will retain water for short periods. The site should be graded to promote drainage including positive drainage away from buildings, and rain gutters are recommended to route roof runoff away from buildings. A pavement cross-slope of two percent

is recommended to promote drainage in paved areas. All drainage measures should be routed to a suitable outlet.

The near surface sands which were silty/clayey likely have a permeability coefficient of 10^{-4} centimeters per second or less. The sands containing little silt likely have a permeability coefficient between 10^{-2} and 10^{-4} centimeters per second. The deeper, cleaner sands (sands with less than 5 percent passing the number 200 sieve) have a permeability coefficient greater than 10^{-2} centimeters per second.

Free-draining soil (granular soil with less than 5 percent passing the number 200 sieve) is recommended as backfill against retaining walls above a line drawn up from the base of the retaining wall footing at a 45 degree angle from the horizontal. The backfill against the retaining wall should be drained to prevent the backfill from becoming saturated.

Where drain tile is used at a site, all drain tile should be part of a single drainage system. Several inches of concrete sand or torpedo sand conforming to the specifications of ASTM C33 should be placed as a filter around the drain tile pipe. Drain tile with sock alone tends to rapidly plug up. Although many codes require gravel around drain tile pipe, gravel does not act as a filter and should not be used around the pipe.

6. 8. Soil Parameters

Dry, moist, and submerged unit weights (γ) in pounds per cubic foot, friction angle (ϕ) in degrees, and cohesion (C) in pounds per square foot for the sands encountered in the borings are shown in Table 6. 8. All soil parameters have been estimated based on soil descriptions and standard penetration test values. The values are for moist (non-saturated) soils. The values for the clean sands (sand with less than 5 percent passing the number 200 sieve) and sands with little silt may also be used for clean, imported sand fill.

Table 6. 8. *Estimated Soil Parameters for the Soils Encountered.*

Soil Description	Dry/Moist/Sbmg Unit Weight (pcf)	Friction Angle (deg)	Cohesion
Clayey Sand & Sand w Some Silt	120 / 130 / 70	28	0+
Clean Sand & Sand w Little Silt	115 / 120 / 65	32	0

The unit weight of concrete is approximately 150 pcf, and the submerged unit weight of concrete is approximately 90 pcf.

6. 9. Corrosion Potential

Any construction materials that will be placed in contact with organic soils should be protected against corrosion.

This project falls into Area 1 of Figure 1, Procedure 13-1-15 of the Wisconsin DOT Facilities Development Manual, which indicates strong potential for corrosion of galvanized steel culvert pipe. Reinforced concrete culvert pipe (preferred) or other corrosion resistant pipe is recommended over galvanized steel pipe.

6. 10. Site Classification for Seismic Design

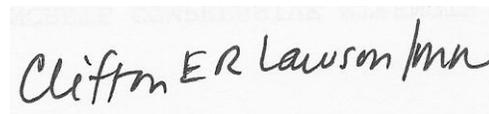
To classify a site for seismic design, the 2009 International Building Code (IBC) requires knowledge of the upper 100 feet of soil. The maximum depth of boring was only 20 feet. Based on standard penetration values, the seismic site class for this site is Site Class ‘E’ according to Table 1613.5.3 of the 2009 IBC.

However, according to section 1613.5.1 of the International Building Code (IBC), a structure may be assigned to Seismic Design Category ‘A’ if Figures 1613.5(1) through 1613.5(14) of the IBC show the mapped short period spectral response acceleration (S_S) at the building site to be less than 0.15g and the mapped one-second period spectral response acceleration (S_1) at the building site to be less than 0.04g. These figures show S_S to be less than 0.15g and S_1 to be less than 0.04g at the project site. Therefore, although the seismic site class is ‘E’ for this site, structures to be built at the site may be assigned to Seismic Design Category ‘A’.

Respectfully,



Benjamin K. Nummelin, P.E.
Nummelin Testing Services, Inc.
bkn/cerl/bn



Clifton E.R. Lawson, P.E.
Consulting Engineer

NUMMELIN TESTING SERVICES, INC

GEOTECHNICAL ENGINEERING REPORT INFORMATION SHEET

Subsurface soil conditions are responsible for many of the construction problems encountered at building sites. In order to help you, our client, manage your risks, we offer you the following information and suggestions.

Geotechnical engineering reports are based on observations of specific soil conditions existing at the time of the subsurface soil investigation. As these conditions may change over time, construction decisions should be made with the timeliness of the report in mind. Further testing may be advisable if subsurface soil conditions are affected by natural events (flooding, spring thaws, etc.) and construction (drilling, blasting, surcharges, etc.) on-site or adjacent to it. Talking to your geotechnical professional before construction begins will help keep one informed if further tests are recommended.

The recommendations included in your geotechnical engineering report are based on a limited number of samples/tests. These recommendations assume that subsurface conditions throughout the site will be similar to those observed. As all recommendations are preliminary when based on limited testing, it is important to have your geotechnical professional observe the actual conditions during construction. This allows him/her to note any differences that may not have been revealed by the limited samples/tests and/or that are more abrupt than reported in the preliminary report. It is this geotechnical professional, using his/her knowledge and familiarity of site history, as well as construction observations, who will be able to determine if there is adequate and appropriate support to consider these recommendations final. He/she will also be able to document that the contractor is following these recommendations. Be aware that this geotechnical professional can not assume responsibility and/or liability for his/her recommendations based on observations and determinations by others.

Professional judgement, based on experience and observations, is at the heart of our geotechnical recommendations. Geotechnical reports use information from a limited number of samples/tests to predict conditions regarding your overall site. No one may say with certainty what subsurface conditions really exist without actual observation. The conditions away from sample/test areas may vary from what is predicted. It is important to identify variations as early as possible. This is why we encourage you to take advantage of our knowledge and experience during the construction phase of your project. Working together we can help minimize the impact when unexpected variations occur.

Geotechnical reports are written for a specific client, purpose, project and set of conditions. They are not intended to be a generalized, generic report for a proposed site. They are for the sole use of our client for the express purpose indicated to us. Should the scope of the project be altered, or if subsurface variations become evident during construction, it may be necessary to modify our recommendations. Early communication with your geotechnical professional can help you avoid expensive problems that may occur when changes to a project's purpose, structure, size, usage, site orientation, elevation, etc. are made after a report is written.

Following these guidelines, your geotechnical subsurface report should provide informed and accurate information to assist in the planning and construction of your project.

Soil Map—Portage County, Wisconsin



BORING LOG NOTES

DESCRIPTIVE TERM, GRANULAR SOIL (% BY DRY WEIGHT)

Trace	0% - 5%
Little	5% - 12%
Some	12% - 35%
And	35% - 50%

Q_p = Estimated Unconfined Compressive Strength (by pocket penetrometer) expressed in tons per square foot (t/sf).

Q_u = Estimated Unconfined Compressive Strength (by ASTM 2166) expressed in tons per square foot (t/sf).

NM = Natural Moisture

M = MOISTURE

D = Dry	F = Frozen
M = Moist	W = Wet
S = Saturated	

LOI = Loss on Ignition (Organic Content)

N (Standard Blow Count) = blows per foot, as shown. Performed in general accordance with Standard Penetration Test Specifications (ASTM D-1586).

NR = No Recovery

WOH = Weight of Hammer

= Sample Number

SOIL CLASSIFICATION

F = Fine	LL = Liquid Limit, percent
M = Medium	PL = Plastic Limit, percent
C = Coarse	PI = Plasticity Index (LL-PL)
W.L. = Water Level	

SOIL STRENGTH CHARACTERISTICS

CONSISTENCY (Cohesive Soils)

<u>Term</u>	<u>Q_u, tons/sq.ft.</u>
Very Soft.....	0.0 to 0.25
Soft.....	0.25 to 0.50
Firm.....	0.50 to 1.0
Stiff.....	1.0 to 2.0
Very Stiff.....	2.0 to 4.0
Hard.....	Over 4.0

RELATIVE DENSITY (Granular Soils)

<u>Term</u>	<u>"N" Value</u>
Very Loose.....	0 - 4
Loose.....	4 - 10
Medium-Dense.....	10 - 30
Dense.....	30 - 50
Very Dense.....	Over 50

ORGANIC CONTENT BY COMBUSTION METHOD

<u>Soil Description</u>	<u>Loss On Ignition</u>
Non Organic	Less than 4%
Organic Silt / Clay	4 - 12%
Sedimentary Peat	12 - 50%
Fibrous & Woody Peat	More than 50%

PLASTICITY

<u>Term</u>	<u>Plastic Index</u>
None to Slight	0 - 4
Slight	5 - 7
Medium	8 - 22
High to Very High	Over 22

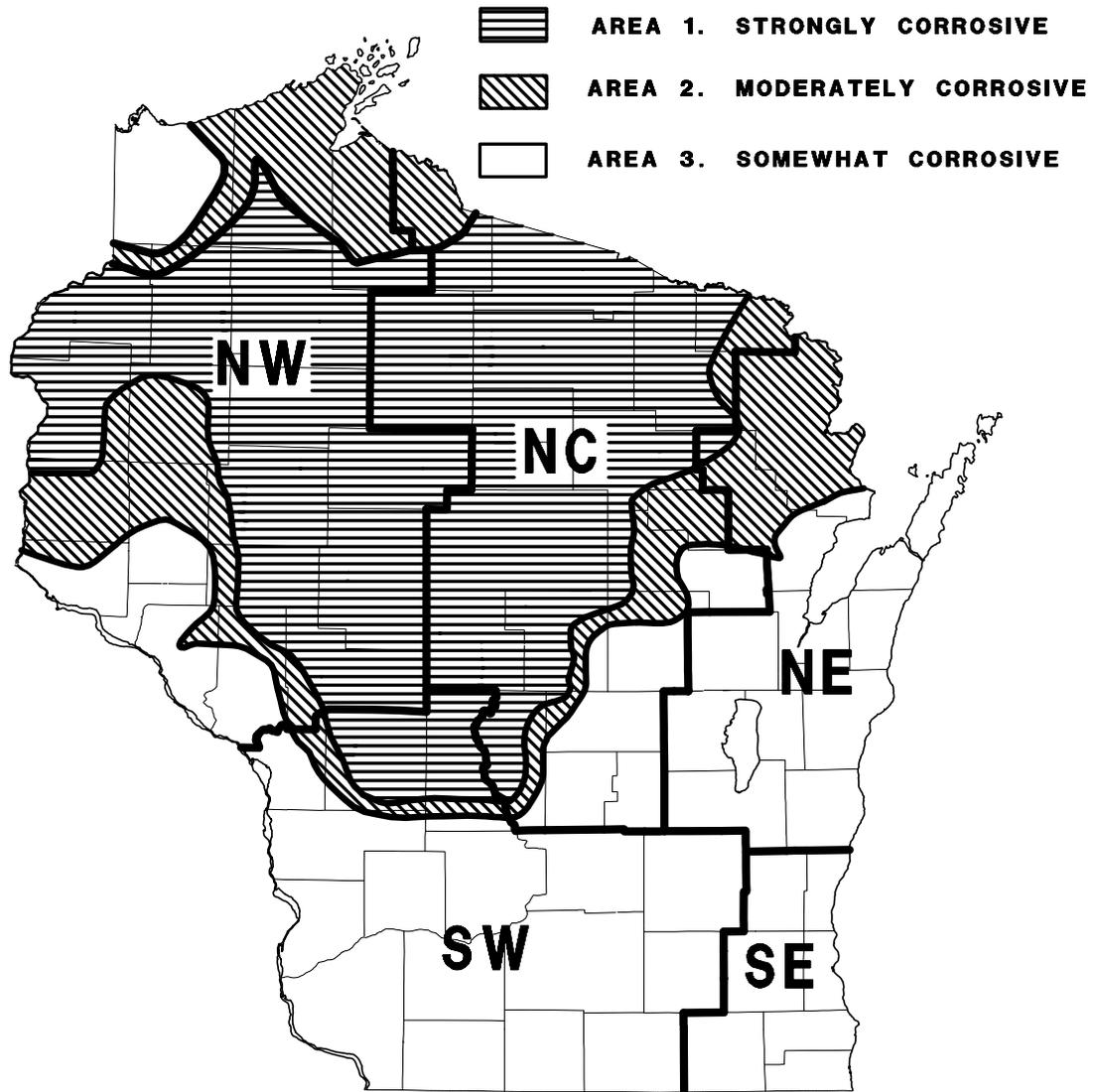
Unified Soil Classification System (USCS)

Major Divisions		Group Symbols	Typical Names	Laboratory Classification Criteria				
Coarse-grained soils (More than 50% of material is retained on the No. 200 sieve)	Gravels (More than 50% of R200 is also R4)	Clean Gravels (P200 < 5%)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines	Determine percentages of sand and gravel from grain curve. Depending on percentage of fines (P200), coarse-grained soils are classified as follows: Less than 5%..... GW, GP, SW, SP More than 12%..... GM, GC, SM, SC 5% to 12%..... Borderline cases requiring dual symbols**	$C_u = D_{60}/D_{10}$ greater than 4; $C_z = (D_{30})^2 / (D_{10} \times D_{60})$ between 1 and 3		
		Clean Gravels (P200 < 5%)	GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines		Not meeting all gradation requirements for GW		
		Gravels w Fines (P200 > 12%)	GM*	d u		Silty gravels, gravel-sand-silt mixtures	Atterberg limits below 'A' line or PI < 4	Above 'A' line with 4 < PI < 7 are borderline cases requiring dual symbols.
			GC			Clayey gravel, gravel-sand-clay mixtures	Atterberg limits above 'A' line & PI > 7	
	Sands (Less than 50% of R200 is also R4)	Clean Sands (P200 < 5%)	SW	Well-graded sands, gravelly sands, little or no fines		$C_u = D_{60}/D_{10}$ greater than 6; $C_z = (D_{30})^2 / (D_{10} \times D_{60})$ between 1 and 3		
		Clean Sands (P200 < 5%)	SP	Poorly-graded sands, gravelly sands, little or no fines		Not meeting all gradation requirements for SW		
		Sands w Fines (P200 > 12%)	SM*	d u		Silty sands, sand-silt mixtures	Atterberg limits below 'A' line or PI < 4	Limits plotting in hatched area with 4 < PI < 7 are borderline cases requiring dual symbols.
			SC			Clayey sands, sand-clay mixtures	Atterberg limits above 'A' line & PI > 7	
	Fine-grained soils (Less than 50% of material is retained on the No. 200 sieve)	Silts / Clays (Liquid Limit less than 50)	ML	Inorganic silts, rock flour, silty or clayey fine sands, clayey silts with slight plasticity		<p style="text-align: center;">Plasticity Chart</p>		
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays				
OL			Organic silts and organic silty clays of low plasticity					
Silts / Clays (Liquid Limit more than 50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts					
		CH	Inorganic clays of high plasticity, fat clays					
		OH	Organic clays of medium to high plasticity, organic silts					
Organic Soils		Pt	Peat and other highly organic soils					

*Division of GM and SM groups into subdivisions of d and u are for roads and airfields only. Subdivision is based on Atterberg; limits suffix d used when LL < 28 and PI < 6; suffix u used when LL is greater than 28.

**Borderline classifications, used for soils possessing characteristics of two groups, are designated by combination of group symbols. For example: GW-GC, well-graded gravel-sand mixture with clay binder.

POTENTIAL FOR BACTERIAL CORROSION OF ZINC GALVANIZED STEEL CULVERT PIPE



INDIVIDUAL SITES IN AREA 3 MAY BE STRONGLY TO MODERATELY CORROSIVE DUE TO LOCAL CONDITIONS SUCH AS FARM RUNOFF, ANAEROBIC BACTERIA IN THE SOIL, ETC.

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 29' 55.5" N, 89° 30' 0.2" W - See Plan
 Stevens Point, WI

Boring: 1
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/16/12
Elevation: 1100.2

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 10" -----	1	0 - 2	6	24	M		
2								
3	Brown F-M SAND Little Silt, Trace Gravel (USCS: SP-SM)	2	3.5 - 5	8	14	M		
4								
5								
6	----- 6.0' -----	3	6 - 7.5	9	12	M		
7	Brown F-M SAND Little Gravel (USCS: SP)							
8								
9	----- 9.0' -----	4	9 - 10.5	8	12	S		
10								
11								
12								
13								
14	Light Brown F-M SAND Little Gravel (USCS: SP)	5	14 - 15.5	9	12	S		
15								
16								
17								
18								
19		6	18.5 - 20	10	12	S		
20	----- E.O.B. 20.0' ----- ----- Water @ Completion 9' ----- ----- Backfilled with Bentonite Chips -----							

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 3.3" N, 89° 29' 42.7" W - See Plan
 Stevens Point, WI

Boring: 2
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/18/12
Elevation: 1109.7

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 12" -----	1	0 - 2	5	22	M		
2	Brown Clayey Fine SAND Trace Gravel (USCS: SC) ----- 3.5' -----	2	3.5 - 5	6	12	W		
3	Brown F-M SAND Little Silt, Trace Gravel (USCS: SP-SM)	3	6 - 7.5	7	12	M		
4	----- 9.0' -----	4	9 - 10.5	6	12	M		
5	Light Brown F-M SAND Trace Gravel (USCS: SP)	5	14 - 15.5	6	12	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 14.5' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	7	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 1.5" N, 89° 29' 29.7" W - See Plan
 Stevens Point, WI

Boring: 3
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/23/12
Elevation: 1112.5

Depth (ft.)		Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	-	Dark Brown Silty SAND (Topsoil) ----- 8" -----	1	0 - 2	5	14	M		
2	-	Brown Fine SAND Little Silt, Trace Gravel (USCS: SP-SM) ----- 3.5' -----	2	3.5 - 5	7	3	M		
3	-		3	6 - 7.5	8	12	M		
4	-		4	9 - 10.5	10	12	M		
5	-	Light Brown F-M SAND Little Gravel (USCS: SP)	5	14 - 15.5	5	12	S		
6	-		6	18.5 - 20	12	12	S		
7	-								
8	-								
9	-								
10	-								
11	-								
12	-								
13	-								
14	-								
15	-								
16	-								
17	-								
18	-								
19	-								
20	-	----- E.O.B. 20.0' ----- ----- Water @ Completion 14' ----- ----- Backfilled with Bentonite Chips -----							

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 7.3" N, 89° 29' 6.4" W - See Plan
 Stevens Point, WI

Boring: 4
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/15/12
Elevation: 1117.9

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 8" -----	1	0 - 2	9	12	M		
2	Brown Fine SAND Some Silt, Little Gravel (USCS: SM) ----- 3.5' -----	2	3.5 - 5	7	12	M		
3	Brown F-M SAND Some Gravel (USCS: SP)	3	6 - 7.5	9	12	M		
4	----- 9.0' -----	4	9 - 10.5	12	14	M		
5	Light Brown F-M SAND Little Gravel (USCS: SP)	5	14 - 15.5	28	12	M		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 17' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	23	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 1.3" N, 89° 28' 49.7" W - See Plan
 Stevens Point, WI

Boring: 5
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/23/12
Elevation: 1116.1

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 10" -----	1	0 - 2	3	24	M		
2	Brown F-M SAND Little Silt, Trace Gravel (USCS: SP-SM) ----- 3.5' -----	2	3.5 - 5	4	10	M		
3	Brown F-M SAND Some Gravel (USCS: SP)	3	6 - 7.5	11	10	M		
4	----- 9.0' -----	4	9 - 10.5	11	12	M		
5	Light Brown F-C SAND Some Gravel (USCS: SP)	5	14 - 15.5	13	12	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 14.5' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	15	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 10.0" N, 89° 30' 4.2" W - See Plan
 Stevens Point, WI

Boring: 6
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/16/12
Elevation: 1103.2

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 12" -----	1	0 - 2	6	24	M		
2	Brown Fine SAND Little Silt, Little Gravel (USCS: SP-SM) ----- 3.5' -----	2	3.5 - 5	6	12	M		
3	Brown F-M SAND Little Gravel (USCS: SP)	3	6 - 7.5	9	12	M		
4	----- 9.0' -----	4	9 - 10.5	9	10	M		
5	Light Brown F-M SAND Little Gravel (USCS: SP)	5	14 - 15.5	4	12	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 9' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	8	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 12.0" N, 89° 29' 46.3" W - See Plan
 Stevens Point, WI

Boring: 7
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/18/12
Elevation: 1112.2

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 11" -----	1	0 - 2	5	20	M		
2								
3	Brown F-M SAND Some Silt, Little Gravel (USCS: SM)	2	3.5 - 5	3	14	W		
4								
5								
6	----- 6.0' -----	3	6 - 7.5	7	12	M		
7								
8								
9		4	9 - 10.5	5	14	M		
10								
11								
12	Light Brown F-M SAND Little Gravel (USCS: SP)							
13								
14		5	14 - 15.5	12	12	M		
15								
16								
17								
18								
19		6	18.5 - 20	11	4	S		
20	----- E.O.B. 20.0' ----- ----- Water @ Completion 17.5' ----- ----- Backfilled with Bentonite Chips -----							

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 11.5" N, 89° 29' 27.4" W - See Plan
 Stevens Point, WI

Boring: 8
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/23/12
Elevation: 1113.4

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 10" -----	1	0 - 2	5	20	M		
2	Brown Clayey SAND Little Gravel (USCS: SC) ----- 3.5' -----	2	3.5 - 5	4	12	M		
3	Brown F-M SAND Little Gravel (USCS: SP)	3	6 - 7.5	8	12	M		
4	----- 9.0' -----	4	9 - 10.5	4	12	M		
5	Light Brown F-M SAND Trace Gravel (USCS: SP)	5	14 - 15.5	6	12	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 14' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	7	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 9.3" N, 89° 29' 6.2" W - See Plan
 Stevens Point, WI

Boring: 9
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/15/12
Elevation: 1118.0

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 12" -----	1	0 - 2	5	20	M		
2	Brown Fine SAND Little Silt, Little Gravel (USCS: SP-SM) ----- 3.5' -----	2	3.5 - 5	13	8	M		
3	Brown F-M SAND Some Gravel (USCS: SP)	3	6 - 7.5	16	8	M		
4	----- 9.0' -----	4	9 - 10.5	17	12	M		
5	Brown Fine SAND Little Gravel (USCS: SP)	5	14 - 15.5	15	12	M		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 17' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	17	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 13.2" N, 89° 28' 50.7" W - See Plan
 Stevens Point, WI

Boring: 10
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/23/12
Elevation: 1121.2

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 8" -----	1	0 - 2	8	12	M		
2	Brown Clayey SAND & GRAVEL (USCS: SP-SC) ----- 3.5' -----	2	3.5 - 5	18	4	M		
3								
4	Light Brown F-M SAND Some Gravel (USCS: SP)	3	6 - 7.5	14	14	M		
5								
6								
7								
8	----- E.O.B. 20.0' ----- ----- Water @ Completion 18' ----- ----- Backfilled with Bentonite Chips -----	4	9 - 10.5	13	14	M		
9								
10								
11								
12								
13								
14	----- E.O.B. 20.0' ----- ----- Water @ Completion 18' ----- ----- Backfilled with Bentonite Chips -----	5	14 - 15.5	18	12	M		
15								
16								
17								
18								
19								
20	----- E.O.B. 20.0' ----- ----- Water @ Completion 18' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	13	12	S		
1								
2								
3								
4								
5								

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 26.5" N, 89° 29' 47.7" W - See Plan
 Stevens Point, WI

Boring: 11
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/15/12
Elevation: 1109.5

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 8" -----	1	0 - 2	4	23	M		
2	Brown F-M SAND Some Silt, Trace Gravel (USCS: SM) ----- 3.5' -----	2	3.5 - 5	4	10	M		
3	Brown F-M SAND Little Gravel (USCS: SP)	3	6 - 7.5	7	12	M		
4	----- 9.0' -----	4	9 - 10.5	12	12	M		
5	Light Brown F-M SAND Little Gravel (USCS: SP)	5	14 - 15.5	5	14	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 14' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	10	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 20.9" N, 89° 29' 25.7" W - See Plan
 Stevens Point, WI

Boring: 12
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/15/12
Elevation: 1113.9

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 5" -----	1	0 - 2	6	14	M		
2	Brown Silty Fine SAND Little Gravel (USCS: SM) ----- 3.5' -----	2	3.5 - 5	11	6	M		
3	Brown F-C SAND Little Silt, Some Gravel (USCS: SP-SM)	3	6 - 7.5	14	8	M		
4	----- 9.0' -----	4	9 - 10.5	6	14	M		
5	Light Brown F-M SAND Little Gravel (USCS: SP)	5	14 - 15.5	8	12	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 14' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	8	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 27.7" N, 89° 29' 13.1" W - See Plan
 Stevens Point, WI

Boring: 13
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/16/12
Elevation: 1116.9

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 8" -----	1	0 - 2	6	16	M		
2	Brown Clayey SAND Some Gravel (USCS: SC) ----- 3.5' -----	2	3.5 - 5	11	12	M		
3	Brown F-C SAND Some Gravel (USCS: SP) ----- 9.0' -----	3	6 - 7.5	10	12	M		
4	Light Brown F-M SAND Little Gravel (USCS: SP)	4	9 - 10.5	11	14	M		
5		5	14 - 15.5	11	12	S		
6		6	18.5 - 20	9	12	S		
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20	----- E.O.B. 20.0' ----- ----- Water @ Completion 15' ----- ----- Backfilled with Bentonite Chips -----							

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 27.7" N, 89° 28' 49.2" W - See Plan
 Stevens Point, WI

Boring: 14
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/23/12
Elevation: 1121.5

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 6" -----	1	0 - 2	3	18	M		
2								
3								
4		2	3.5 - 5	3	10	M		
5	Brown SAND & GRAVEL (USCS: SP)							
6		3	6 - 7.5	6	12	M		
7								
8								
9	----- 9.0' -----	4	9 - 10.5	12	10	M		
10								
11								
12								
13								
14	Light Brown F-M SAND Some Gravel (USCS: SP)	5	14 - 15.5	6	12	M		
15								
16								
17								
18								
19		6	18.5 - 20	15	12	S		
20	----- E.O.B. 20.0' ----- ----- Water @ Completion 17.5' ----- ----- Backfilled with Bentonite Chips -----							

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 37.7" N, 89° 30' 4.0" W - See Plan
 Stevens Point, WI

Boring: 15
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/15/12
Elevation: 1108.5

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 9" -----	1	0 - 2	6	18	M		
2	Brown Fine SAND Little Silt, Little Gravel (USCS: SP-SM) ----- 3.5' -----	2	3.5 - 5	7	14	M		
3	Brown F-M SAND Little Gravel (USCS: SP)	3	6 - 7.5	8	14	M		
4	----- 9.0' -----	4	9 - 10.5	10	14	M		
5	Light Brown F-M SAND Trace Gravel (USCS: SP)	5	14 - 15.5	6	14	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 14' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	7	14	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 37.4" N, 89° 29' 47.4" W - See Plan
 Stevens Point, WI

Boring: 16
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/15/12
Elevation: 1111.0

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 7" -----	1	0 - 2	11	12	M		
2	Brown Fine SAND Little Silt, Little Gravel (USCS: SP-SM) ----- 3.5' -----	2	3.5 - 5	6	12	M		
3	Brown F-M SAND Little Gravel (USCS: SP)	3	6 - 7.5	7	12	M		
4	----- 9.0' -----	4	9 - 10.5	10	14	M		
5	Light Brown F-M SAND Little Gravel (USCS: SP)	5	14 - 15.5	9	10	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 14' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	8	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 41.2" N, 89° 29' 23.8" W - See Plan
 Stevens Point, WI

Boring: 17
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/16/12
Elevation: 1116.6

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 7" -----	1	0 - 2	6	16	M		
2	Brown Fine SAND Little Silt, Little Gravel (USCS: SP-SM) ----- 3.5' -----	2	3.5 - 5	5	12	M		
3	Brown F-M SAND Little Gravel (USCS: SP) ----- 9.0' -----	3	6 - 7.5	8	12	M		
4		4	9 - 10.5	7	12	M		
5		5	14 - 15.5	9	3	S		
6		6	18.5 - 20	8	12	S		
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20	----- E.O.B. 20.0' ----- ----- Water @ Completion 14.5' ----- ----- Backfilled with Bentonite Chips -----							

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 40.8" N, 89° 29' 11.1" W - See Plan
 Stevens Point, WI

Boring: 18
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/16/12
Elevation: 1118.9

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 8" -----	1	0 - 2	4	20	M		
2	Brown F-M SAND Little Silt, Trace Gravel (USCS: SP-SM) ----- 3.5' -----	2	3.5 - 5	4	12	M		
3	Brown F-M SAND Some Silt, Little Gravel (USCS: SM)	3	6 - 7.5	7	12	M		
4	----- 9.0' -----	4	9 - 10.5	8	12	M		
5	Light Brown F-M SAND Little Gravel (USCS: SP)	5	14 - 15.5	8	12	S		
6	----- E.O.B. 20.0' ----- ----- Water @ Completion 14' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	11	12	S		

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 39.0" N, 89° 28' 50.8" W - See Plan
 Stevens Point, WI

Boring: 19
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/23/12
Elevation: 1123.4

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 10" -----	1	0 - 2	5	18	M		
2	Brown F-M SAND Some Silt (USCS: SM) ----- 3.5' -----	2	3.5 - 5	4	6	M		
3	Brown F-M SAND Little Gravel (USCS: SP) ----- 6.0' -----	3	6 - 7.5	8	12	M		
4								
5								
6								
7								
8								
9		4	9 - 10.5	10	12	M		
10								
11								
12	Light Brown F-M SAND Some Gravel (USCS: SP)							
13								
14		5	14 - 15.5	25	10	M		
15								
16								
17								
18								
19		6	18.5 - 20	22	10	S		
20	----- E.O.B. 20.0' ----- ----- Water @ Completion 17.5' ----- ----- Backfilled with Bentonite Chips -----							

SOIL BORING LOG

Boring By: Nummelin Testing Services, Inc.

Project: East Park Commerce Center
Location: 44° 30' 35.2" N, 89° 28' 46.5" W - See Plan
 Stevens Point, WI

Boring: 20
Auger: HSA
Page: 1 of 1
Drillers: MA / NH
Date: 10/23/12
Elevation: 1124.7

Depth (ft.)	Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
1	Dark Brown Silty SAND (Topsoil) ----- 8" -----	1	0 - 2	4	18	M		
2	Brown Fine SAND Some Silt, Trace Gravel (USCS: SM) ----- 3.5' -----	2	3.5 - 5	3	10	M		
3	Brown F-M SAND Little Silt, Little Gravel (USCS: SP) ----- 6.0' -----	3	6 - 7.5	8	12	M		
4								
5								
6								
7								
8								
9								
10								
11								
12	Light Brown F-M SAND Some Gravel (USCS: SP)	5	14 - 15.5	18	3	M		
13								
14								
15								
16								
17								
18								
19								
20	----- E.O.B. 20.0' ----- ----- Water @ Completion 17' ----- ----- Backfilled with Bentonite Chips -----	6	18.5 - 20	8	12	S		

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295 and 299, Wis Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions for more information.

Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 1		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Reason For Abandonment		WI Unique Well No. of Replacement Well				State	ZIP Code	
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/16/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
If yes, to what depth (feet)?		Depth to water (feet) 9		Required Method of Placing Sealing Material				
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
		From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight	
3/8" Bentonite Chips		Surface		20				
6. Comments				<input type="checkbox"/> Screened and Poured (Bentonite Chips) <input type="checkbox"/> Other (explain): _____				
				Sealing Materials				
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)				
				<input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry				
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips				
				<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>				
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout				
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/16/12		Date Received		Noted By		
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI	ZIP Code 54481	Signature of Person Doing Work		Date Signed		

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information					
Boring Number 2		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center			
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point	
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W				
Grid Location				<input type="checkbox"/> Local Grid Origin					
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner	
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10					
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti					
Reason For Abandonment		WI Unique Well No. of Replacement Well		State		ZIP Code			
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material					
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/18/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
If yes, to what depth (feet)?		Depth to water (feet) 14.5		Required Method of Placing Sealing Material					
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped					
From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight			
Surface		20							
3/8" Bentonite Chips				<input type="checkbox"/> Screened and Poured <input type="checkbox"/> Other (explain): _____					
Sealing Materials				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)					
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry					
If yes, to what depth (feet)?				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips					
Depth to water (feet) 14.5				<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>					
6. Comments				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout					
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry					
7. Supervision of Work				DNR Use Only					
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/18/12		Date Received		Noted By			
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments					
City Stevens Point		State WI		ZIP Code 54481		Signature of Person Doing Work		Date Signed	

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information					
Boring Number 3		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center			
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point	
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W				
Grid Location				<input type="checkbox"/> Local Grid Origin					
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner	
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10					
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti					
Reason For Abandonment		WI Unique Well No. of Replacement Well				State	ZIP Code		
3. Well / Drillhole / Borehole Information									
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/23/2012		4. Pump, Liner, Screen, Casing & Sealing Material					
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
<input checked="" type="checkbox"/> Borehole / Drillhole				Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
<input type="checkbox"/> Other (specify): _____				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Total Well Depth From Groundsurface (ft.)				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					
Casing Diameter (in.)				Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Lower Drillhole Diameter (in.)				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Casing Depth (ft.)				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				Required Method of Placing Sealing Material					
If yes, to what depth (feet)?				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped					
Depth to water (feet) 14				<input type="checkbox"/> Screened and Poured <input type="checkbox"/> Other (explain): _____					
5. Material Used to Fill Well / Drillhole				Sealing Materials					
From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight			
3/8" Bentonite Chips		Surface		20					
6. Comments									
7. Supervision of Work									
Name of Person or Firm Doing Sealing Work NTS, Inc.				Date Received					
Date of Abandonment 10/23/12				Noted By					
Street or Route P.O. Box 127				Telephone Number (715) 341-7974				Comments	
City Stevens Point		State WI		ZIP Code 54481		Signature of Person Doing Work		Date Signed	

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 4		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		State		ZIP Code		
Reason For Abandonment		WI Unique Well No. of Replacement Well						
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/15/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)				Casing Diameter (in.)				
Lower Drillhole Diameter (in.)				Casing Depth (ft.)				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
If yes, to what depth (feet)?				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Depth to water (feet) 17				Required Method of Placing Sealing Material				
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight		
Surface		20						
3/8" Bentonite Chips								
6. Comments								
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/15/12		Date Received		Noted By		
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI		ZIP Code 54481		Signature of Person Doing Work		
						Date Signed		

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 5		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name			Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point	
1/4 / 1/4	1/4	Section	Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W		Street Address of Well NE Corner Badger Ave & Hwy 10		
Grid Location			<input type="checkbox"/> Local Grid Origin (estimated) OR <input type="checkbox"/> Well Location			Present Well Owner		Original Well Owner
Feet		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	Latitude: DEG MIN SEC		Longitude: DEG MIN SEC			Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti
Reason For Abandonment		WI Unique Well No. of Replacement Well				State	ZIP Code	
3. Well / Drillhole / Borehole Information								
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/23/2012						
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>						
<input checked="" type="checkbox"/> Borehole / Drillhole								
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____								
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock								
Total Well Depth From Groundsurface (ft.)				Casing Diameter (in.)				
Lower Drillhole Diameter (in.)				Casing Depth (ft.)				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown								
If yes, to what depth (feet)?				Depth to water (feet) 14.5				
5. Material Used to Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight	
3/8" Bentonite Chips				Surface	20			
6. Comments								
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.			Date of Abandonment 10/23/12		Date Received		Noted By	
Street or Route P.O. Box 127			Telephone Number (715) 341-7974		Comments			
City Stevens Point		State WI	ZIP Code 54481		Signature of Person Doing Work		Date Signed	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Material settle after 24 hrs?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened and Poured		<input type="checkbox"/> Other (explain): _____	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)	
<input type="checkbox"/> Sand Cement (concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite-Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite-Sand Slurry	

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information			
Boring Number 6		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center	
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.
City, Village, or Town Stevens Point		1/4 / 1/4 1/4 Section		Township Range N E W		Street Address of Well NE Corner Badger Ave & Hwy 10	
Grid Location		<input type="checkbox"/> Local Grid Origin		Present Well Owner		Original Well Owner	
Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> (estimated) OR		<input type="checkbox"/> Well Location		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti	
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		State		ZIP Code	
Reason For Abandonment		WI Unique Well No. of Replacement Well					
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/16/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Total Well Depth From Groundsurface (ft.)				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Casing Diameter (in.)				Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Lower Drillhole Diameter (in.)				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Casing Depth (ft.)				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				Required Method of Placing Sealing Material			
If yes, to what depth (feet)?				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Depth to water (feet) 9				<input type="checkbox"/> Screened and Poured <input type="checkbox"/> Other (explain): _____			
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)			
				<input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry			
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
				<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry			
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight	
3/8" Bentonite Chips		Surface	20				
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/16/12		Date Received		Noted By	
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments			
City Stevens Point		State WI	ZIP Code 54481	Signature of Person Doing Work			Date Signed

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 7		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Reason For Abandonment		WI Unique Well No. of Replacement Well		State		ZIP Code		
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/18/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
If yes, to what depth (feet)?		Depth to water (feet) 17.5		Required Method of Placing Sealing Material				
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight		
Surface		20						
3/8" Bentonite Chips				<input type="checkbox"/> Screened and Poured <input type="checkbox"/> Other (explain): _____				
Sealing Materials				<input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)				
<input type="checkbox"/> Neat Cement Grout				<input type="checkbox"/> Bentonite-Sand Slurry				
<input type="checkbox"/> Sand Cement (concrete) Grout				<input checked="" type="checkbox"/> Bentonite Chips				
<input type="checkbox"/> Concrete				For Monitoring Wells and Monitoring Well Boreholes Only:				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout				
If yes, to what depth (feet)?		Depth to water (feet) 17.5		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
6. Comments								
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/18/12		Date Received		Noted By		
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI		ZIP Code 54481		Signature of Person Doing Work		Date Signed

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 8		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Reason For Abandonment		WI Unique Well No. of Replacement Well				State	ZIP Code	
3. Well / Drillhole / Borehole Information								
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/23/2012		4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Casing Diameter (in.)				Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Lower Drillhole Diameter (in.)				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Casing Depth (ft.)				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				Required Method of Placing Sealing Material				
If yes, to what depth (feet)?				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
Depth to water (feet) 14				<input type="checkbox"/> Screened and Poured <input type="checkbox"/> Other (explain): _____				
5. Material Used to Fill Well / Drillhole				Sealing Materials				
From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight		
3/8" Bentonite Chips		Surface		20				
6. Comments								
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/23/12		Date Received		Noted By		
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI		ZIP Code 54481		Signature of Person Doing Work		
						Date Signed		

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 9		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Reason For Abandonment		WI Unique Well No. of Replacement Well				State	ZIP Code	
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/15/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
If yes, to what depth (feet)?		Depth to water (feet) 17		Required Method of Placing Sealing Material				
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
		From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight	
3/8" Bentonite Chips		Surface		20				
6. Comments				<input type="checkbox"/> Screened and Poured (Bentonite Chips) <input type="checkbox"/> Other (explain): _____				
				Sealing Materials				
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)				
				<input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry				
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips				
				<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>				
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout				
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/15/12		Date Received		Noted By		
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI	ZIP Code 54481	Signature of Person Doing Work		Date Signed		

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information			
Boring Number 10		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center	
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.
City, Village, or Town Stevens Point		1/4 / 1/4 1/4 Section		Township Range N E W		Street Address of Well NE Corner Badger Ave & Hwy 10	
Grid Location		<input type="checkbox"/> Local Grid Origin		Present Well Owner		Original Well Owner	
Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> (estimated) OR		<input type="checkbox"/> Well Location		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti	
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		State		ZIP Code	
Reason For Abandonment		WI Unique Well No. of Replacement Well					
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/23/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Total Well Depth From Groundsurface (ft.)				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.)				Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If yes, to what depth (feet)?				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Depth to water (feet) 18				Required Method of Placing Sealing Material			
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight	
Surface		20					
3/8" Bentonite Chips							
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/23/12		Date Received		Noted By	
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments			
City Stevens Point		State WI		ZIP Code 54481		Signature of Person Doing Work	
						Date Signed	

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information					
Boring Number 11		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center			
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point	
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W		Street Address of Well NE Corner Badger Ave & Hwy 10		
Grid Location				<input type="checkbox"/> Local Grid Origin (estimated) OR		Present Well Owner		Original Well Owner	
Feet		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	<input type="checkbox"/> Well Location		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		State		ZIP Code			
Reason For Abandonment				WI Unique Well No. of Replacement Well					
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material					
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/15/2012		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____				Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Material settle after 24 hrs?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If yes, to what depth (feet)?		Depth to water (feet) 14		Required Method of Placing Sealing Material					
5. Material Used to Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight		
				Surface	20				
3/8" Bentonite Chips									
6. Comments									
7. Supervision of Work				DNR Use Only					
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/15/12		Date Received		Noted By			
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments					
City Stevens Point		State WI	ZIP Code 54481	Signature of Person Doing Work			Date Signed		

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 12		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		State		ZIP Code		
Reason For Abandonment		WI Unique Well No. of Replacement Well						
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/15/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)				Casing Diameter (in.)				
Lower Drillhole Diameter (in.)				Casing Depth (ft.)				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
If yes, to what depth (feet)?				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Depth to water (feet) 14				Required Method of Placing Sealing Material				
				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
				<input type="checkbox"/> Screened and Poured <input type="checkbox"/> Other (explain): _____				
				Sealing Materials				
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)				
				<input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry				
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips				
				<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>				
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout				
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight		
3/8" Bentonite Chips		Surface	20					
6. Comments								
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.			Date of Abandonment 10/15/12	Date Received		Noted By		
Street or Route P.O. Box 127			Telephone Number (715) 341-7974	Comments				
City Stevens Point		State WI	ZIP Code 54481	Signature of Person Doing Work			Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295 and 299, Wis Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions for more information.

Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information					
Boring Number 13		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center			
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point	
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W		Street Address of Well NE Corner Badger Ave & Hwy 10		
Grid Location				<input type="checkbox"/> Local Grid Origin (estimated) OR		Present Well Owner		Original Well Owner	
Feet		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	<input type="checkbox"/> Well Location		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		State		ZIP Code			
Reason For Abandonment				WI Unique Well No. of Replacement Well					
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material					
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/16/2012		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____				Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Material settle after 24 hrs?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If yes, to what depth (feet)?		Depth to water (feet) 15		Required Method of Placing Sealing Material					
				<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped			
				<input type="checkbox"/> Screened and Poured (Bentonite Chips)		<input type="checkbox"/> Other (explain): _____			
				Sealing Materials					
				<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)			
				<input type="checkbox"/> Sand Cement (concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry			
				<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:					
				<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite-Cement Grout			
				<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite-Sand Slurry			
5. Material Used to Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight		
3/8" Bentonite Chips				Surface	20				
6. Comments									
7. Supervision of Work				DNR Use Only					
Name of Person or Firm Doing Sealing Work NTS, Inc.			Date of Abandonment 10/16/12		Date Received		Noted By		
Street or Route P.O. Box 127			Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI	ZIP Code 54481		Signature of Person Doing Work			Date Signed	

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information			
Boring Number 14		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center	
Common Well Name			Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W		Street Address of Well NE Corner Badger Ave & Hwy 10
Grid Location			<input type="checkbox"/> Local Grid Origin		Present Well Owner		Original Well Owner
Feet		<input type="checkbox"/> N <input type="checkbox"/> E	<input type="checkbox"/> S <input type="checkbox"/> W	<input type="checkbox"/> (estimated) OR		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti	
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		State		ZIP Code	
Reason For Abandonment		WI Unique Well No. of Replacement Well					
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/23/2012		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____				Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Material settle after 24 hrs?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If yes, to what depth (feet)?		Depth to water (feet) 17.5		Required Method of Placing Sealing Material			
5. Material Used to Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
				Surface	20		
3/8" Bentonite Chips							
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/23/12		Date Received		Noted By	
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments			
City Stevens Point		State WI	ZIP Code 54481	Signature of Person Doing Work		Date Signed	

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 15		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Reason For Abandonment		WI Unique Well No. of Replacement Well				State	ZIP Code	
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/15/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
If yes, to what depth (feet)?		Depth to water (feet) 14		Required Method of Placing Sealing Material				
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight		
3/8" Bentonite Chips		Surface		20				
6. Comments				<input type="checkbox"/> Screened and Poured (Bentonite Chips) <input type="checkbox"/> Other (explain): _____				
				Sealing Materials				
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)				
				<input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry				
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips				
				<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>				
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout				
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/15/12		Date Received		Noted By		
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI		ZIP Code 54481		Signature of Person Doing Work		Date Signed

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information					
Boring Number 16		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center			
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point	
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W				
Grid Location				<input type="checkbox"/> Local Grid Origin					
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner	
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti					
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		State		ZIP Code			
Reason For Abandonment		WI Unique Well No. of Replacement Well							
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material					
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/15/2012		Pump and piping removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____				Casing left in place?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing cut off below surface?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Sealing material rise to surface?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Material settle after 24 hrs?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
If yes, to what depth (feet)?		Depth to water (feet) 14		Required Method of Placing Sealing Material					
5. Material Used to Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight	
				3/8" Bentonite Chips	Surface	20			
6. Comments									
7. Supervision of Work				DNR Use Only					
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/15/12		Date Received		Noted By			
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments					
City Stevens Point		State WI	ZIP Code 54481		Signature of Person Doing Work		Date Signed		

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Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 17		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Reason For Abandonment		WI Unique Well No. of Replacement Well				State	ZIP Code	
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/16/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
If yes, to what depth (feet)?		Depth to water (feet) 14.5		Required Method of Placing Sealing Material				
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
		From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight	
3/8" Bentonite Chips		Surface		20				
6. Comments				<input type="checkbox"/> Screened and Poured <input type="checkbox"/> Other (explain): _____				
				Sealing Materials				
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)				
				<input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry				
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips				
				<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>				
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout				
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/16/12		Date Received		Noted By		
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI	ZIP Code 54481	Signature of Person Doing Work		Date Signed		

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295 and 299, Wis Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions for more information.

Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 18		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> (estimated) OR		<input type="checkbox"/> Well Location		
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address of Well NE Corner Badger Ave & Hwy 10				
Reason For Abandonment				WI Unique Well No. of Replacement Well				
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole				Original Construction Date 10/16/2012				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____				If a Well Construction Report is available, please attach.				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened and Poured <input type="checkbox"/> Other (explain): _____ Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.) <input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		<input type="checkbox"/> Screened and Poured (Bentonite Chips)				
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.) <input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				5. Material Used to Fill Well / Drillhole				
If yes, to what depth (feet)?		Depth to water (feet) 14		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight	
				Surface	20			
6. Comments								
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.			Date of Abandonment 10/16/12		Date Received		Noted By	
Street or Route P.O. Box 127			Telephone Number (715) 341-7974		Comments			
City Stevens Point		State WI	ZIP Code 54481		Signature of Person Doing Work		Date Signed	

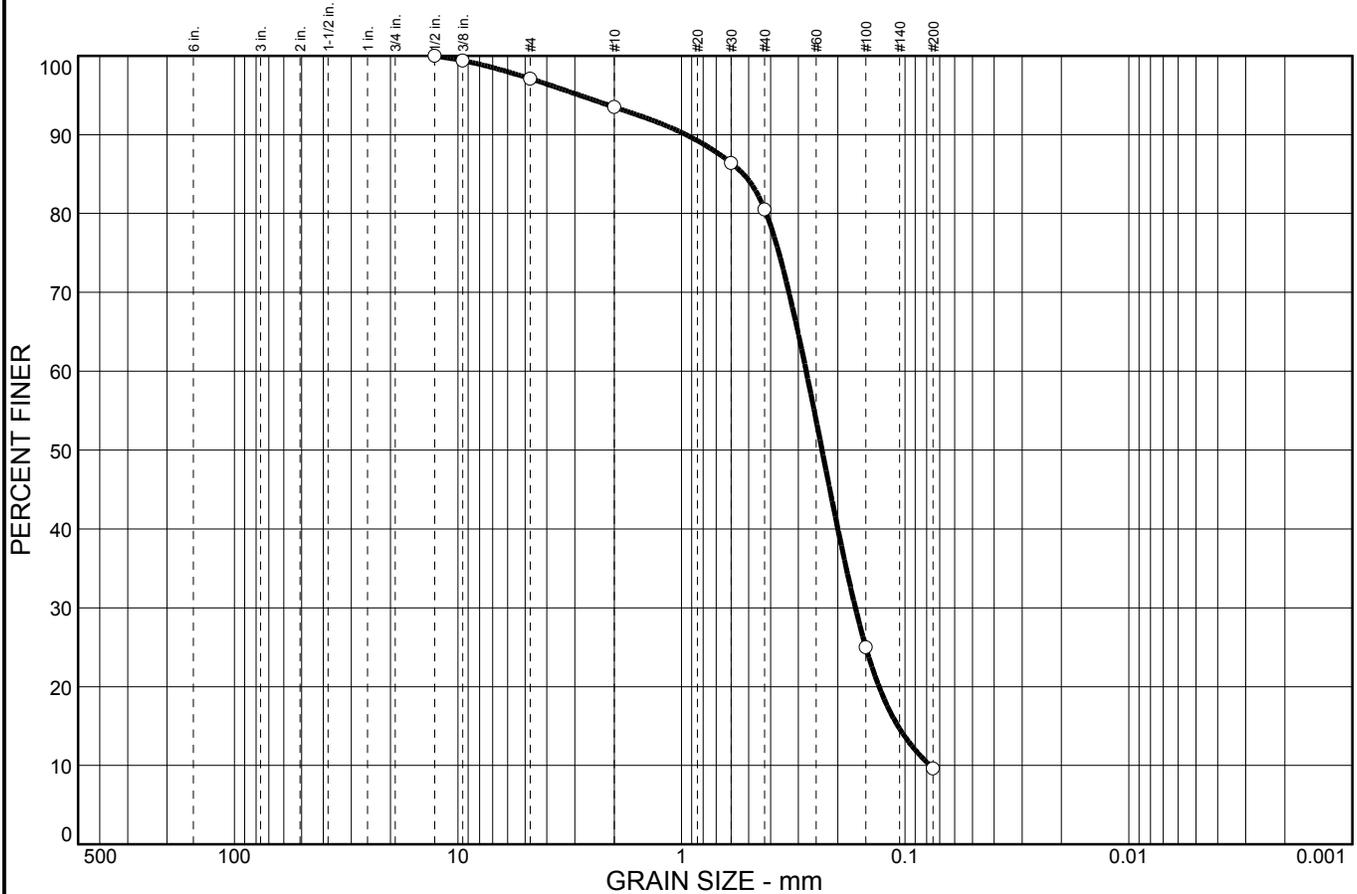
Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295 and 299, Wis Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions for more information.

Route To:

Drinking Water Watershed Water Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information				
Boring Number 19		DNR Well ID No.		County Portage		Facility Name East Park Commerce Center		
Common Well Name				Gov't Lot # (if applic.)		Facility ID 153.66	License/Permit No.	City, Village, or Town Stevens Point
1/4 / 1/4	1/4	Section		Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W			
Grid Location				<input type="checkbox"/> Local Grid Origin				
Feet		<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> (estimated) OR		Present Well Owner		Original Well Owner
<input type="checkbox"/> S <input type="checkbox"/> W		<input type="checkbox"/> Well Location		Street Address of Well NE Corner Badger Ave & Hwy 10				
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersecti				
Reason For Abandonment		WI Unique Well No. of Replacement Well				State	ZIP Code	
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material				
<input type="checkbox"/> Monitoring Well		Original Construction Date 10/23/2012		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Water Well		<i>If a Well Construction Report is available, please attach.</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
<input type="checkbox"/> Other (specify): _____				Casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		Material settle after 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
If yes, to what depth (feet)?		Depth to water (feet) 17.5		Required Method of Placing Sealing Material				
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped				
		From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight	
3/8" Bentonite Chips		Surface		20				
6. Comments				<input type="checkbox"/> Screened and Poured (Bentonite Chips) <input type="checkbox"/> Other (explain): _____				
				Sealing Materials				
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay Sand Slurry (11lb/gal w.t.)				
				<input type="checkbox"/> Sand Cement (concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry				
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips				
				<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>				
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite-Cement Grout				
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry				
7. Supervision of Work				DNR Use Only				
Name of Person or Firm Doing Sealing Work NTS, Inc.		Date of Abandonment 10/23/12		Date Received		Noted By		
Street or Route P.O. Box 127		Telephone Number (715) 341-7974		Comments				
City Stevens Point		State WI	ZIP Code 54481	Signature of Person Doing Work		Date Signed		

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.9	3.6	13.0	70.9	9.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5 in.	100.0		
.375 in.	99.4		
#4	97.1		
#10	93.5		
#30	86.4		
#40	80.5		
#100	25.0		
#200	9.6		

Soil Description

SAND, Brown, F-M, Little Silt, Trace Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.529 D₆₀= 0.277 D₅₀= 0.236
D₃₀= 0.167 D₁₅= 0.108 D₁₀= 0.0775
C_u= 3.58 C_c= 1.30

Classification

USCS= SP-SM AASHTO=

Remarks

* (no specification provided)

Sample No.: B1, S1
 Location:

Source of Sample: B1, S1

Date:
 Elev./Depth: 0'-2'

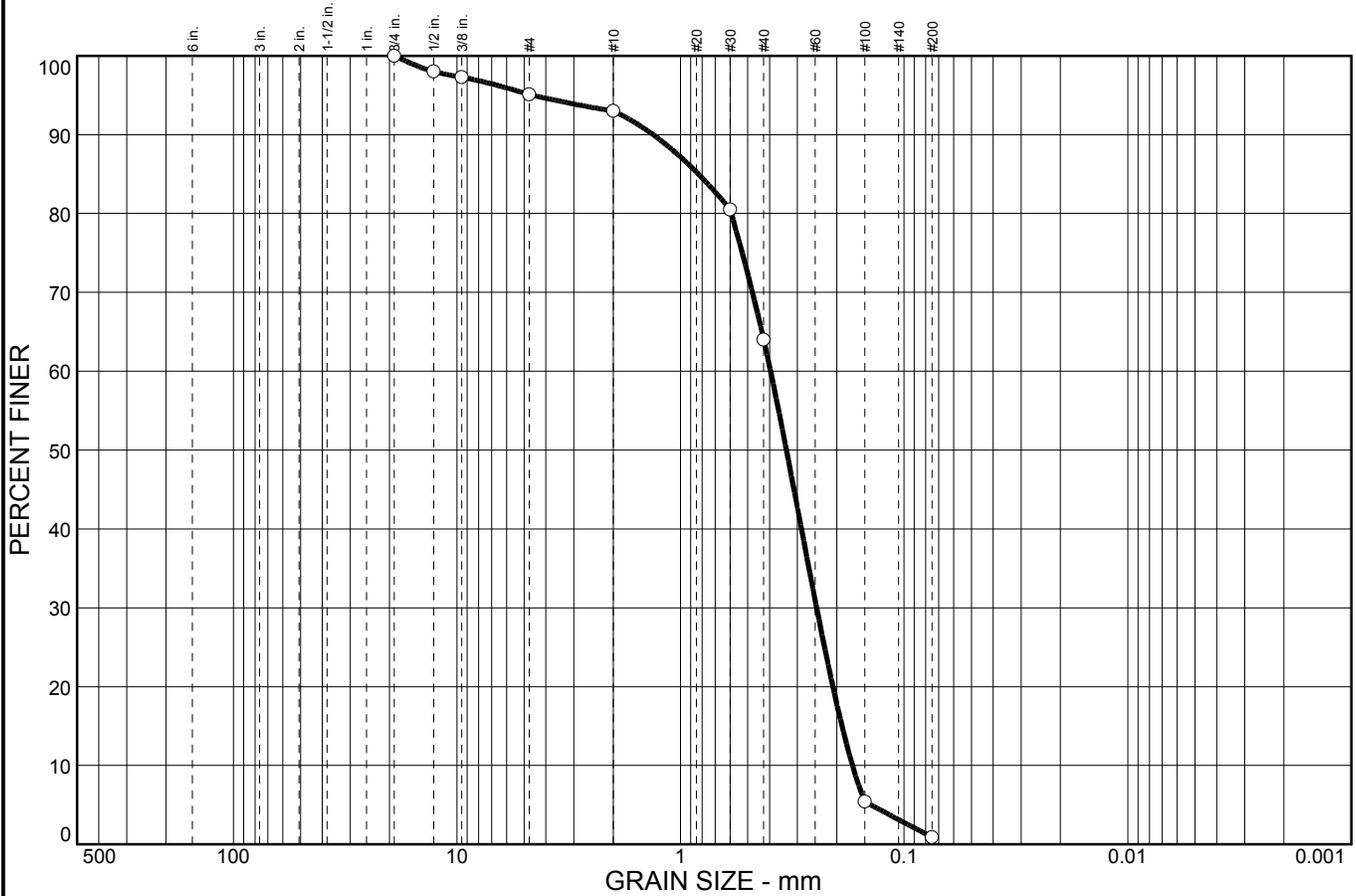
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
 Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	4.9	2.1	29.0	63.1	0.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
.5 in.	98.0		
.375 in.	97.3		
#4	95.1		
#10	93.0		
#30	80.5		
#40	64.0		
#100	5.4		
#200	0.9		

Soil Description

SAND, Light Brown, F-M, Trace Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.832 D₆₀= 0.396 D₅₀= 0.336
D₃₀= 0.246 D₁₅= 0.190 D₁₀= 0.170
C_u= 2.33 C_c= 0.90

Classification

USCS= SP AASHTO=

Remarks

* (no specification provided)

Sample No.: B2, S5
 Location:

Source of Sample: B2, S5

Date:
 Elev./Depth: 14'-15.5'

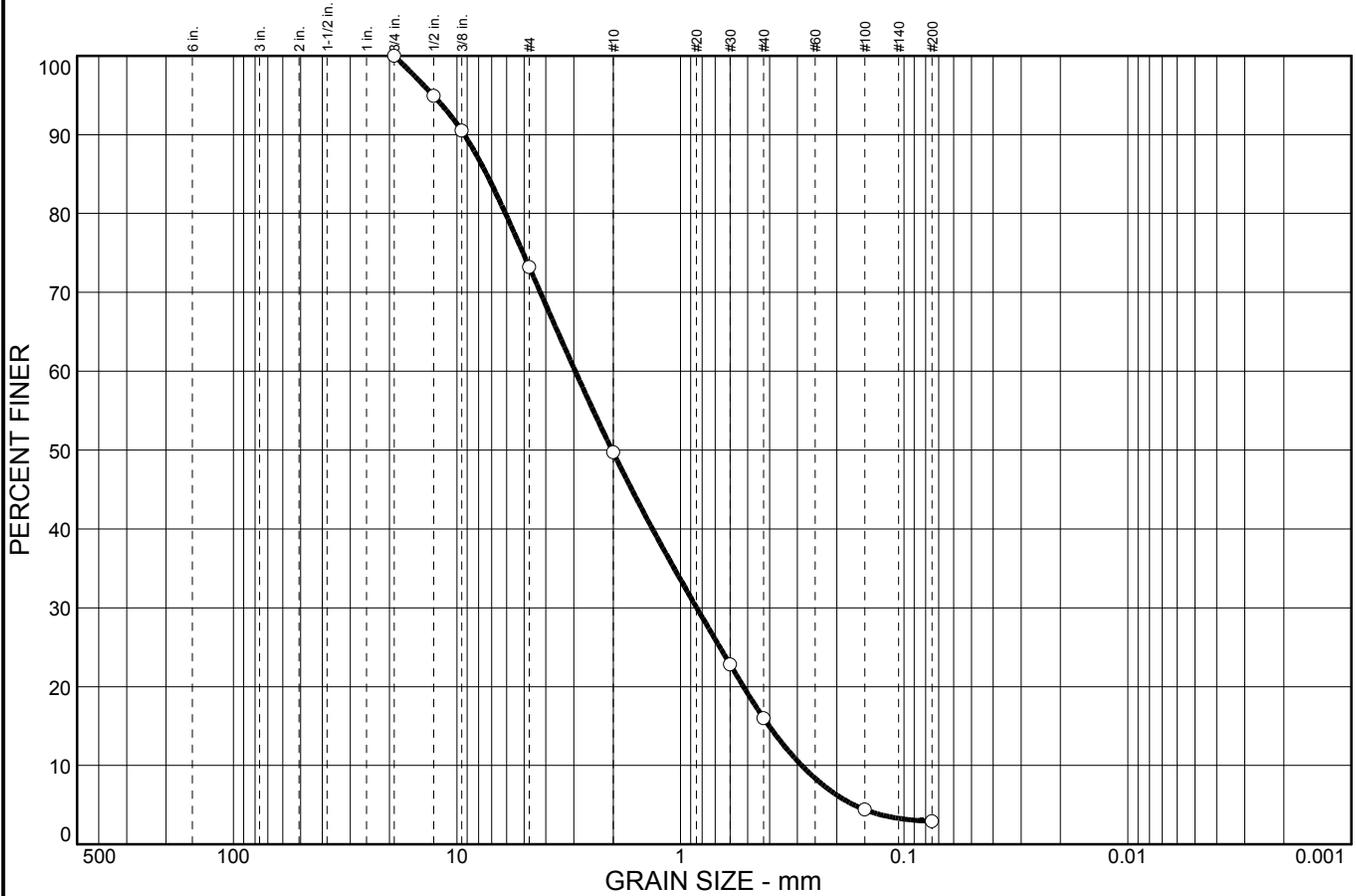
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
 Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	26.8	23.5	33.7	13.1	2.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
.5 in.	94.9		
.375 in.	90.5		
#4	73.2		
#10	49.7		
#30	22.8		
#40	16.0		
#100	4.4		
#200	2.9		

Soil Description

SAND, Light Brown, F-C, Some Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 7.37 D₆₀= 2.96 D₅₀= 2.02
D₃₀= 0.847 D₁₅= 0.402 D₁₀= 0.287
C_u= 10.29 C_c= 0.84

Classification

USCS= SP AASHTO=

Remarks

* (no specification provided)

Sample No.: B5, S4
 Location:

Source of Sample: B5, S4

Date:
 Elev./Depth: 9'-10.5'

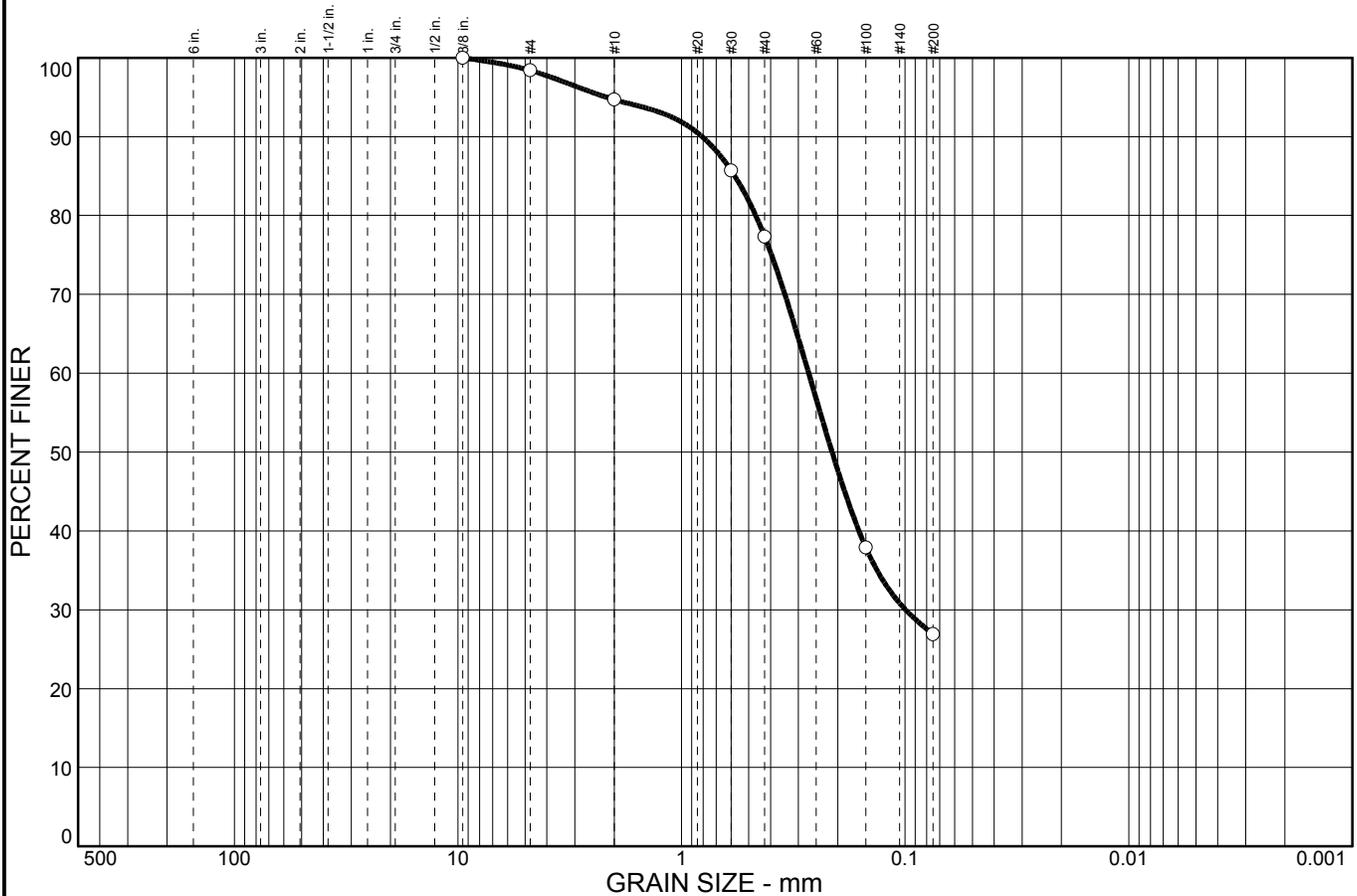
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
 Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	1.6	3.7	17.4	50.4	26.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	98.4		
#10	94.7		
#30	85.7		
#40	77.3		
#100	37.9		
#200	26.9		

Soil Description

SAND, Brown, F-M, Some Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.578 D₆₀= 0.270 D₅₀= 0.212
D₃₀= 0.0996 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

* (no specification provided)

Sample No.: B7, S2
Location:

Source of Sample: B7, S2

Date:
Elev./Depth: 3.5'-5'

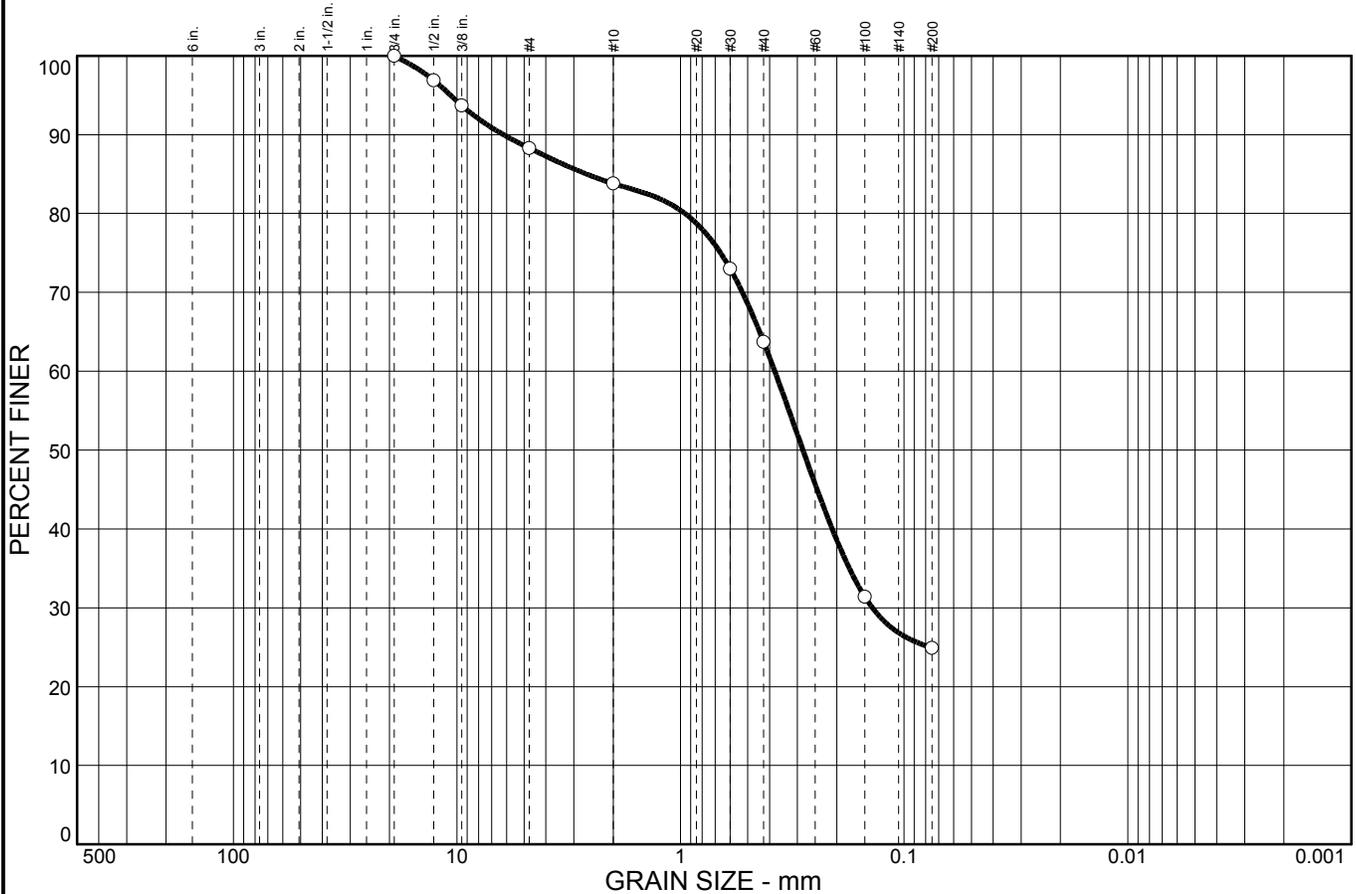
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	11.7	4.5	20.1	38.8	24.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
.5 in.	96.9		
.375 in.	93.7		
#4	88.3		
#10	83.8		
#30	73.0		
#40	63.7		
#100	31.4		
#200	24.9		

Soil Description

SAND, Brown, F-M, Clayey, Little Gravel

PL= **Atterberg Limits** PI=

Coefficients

D₈₅= 2.63 D₆₀= 0.379 D₅₀= 0.284

D₃₀= 0.139 D₁₅= D₁₀=

C_u= C_c=

USCS= SC **Classification** AASHTO=

Remarks

* (no specification provided)

Sample No.: B8, S1
Location:

Source of Sample: B8, S1

Date:
Elev./Depth: 0'-2'

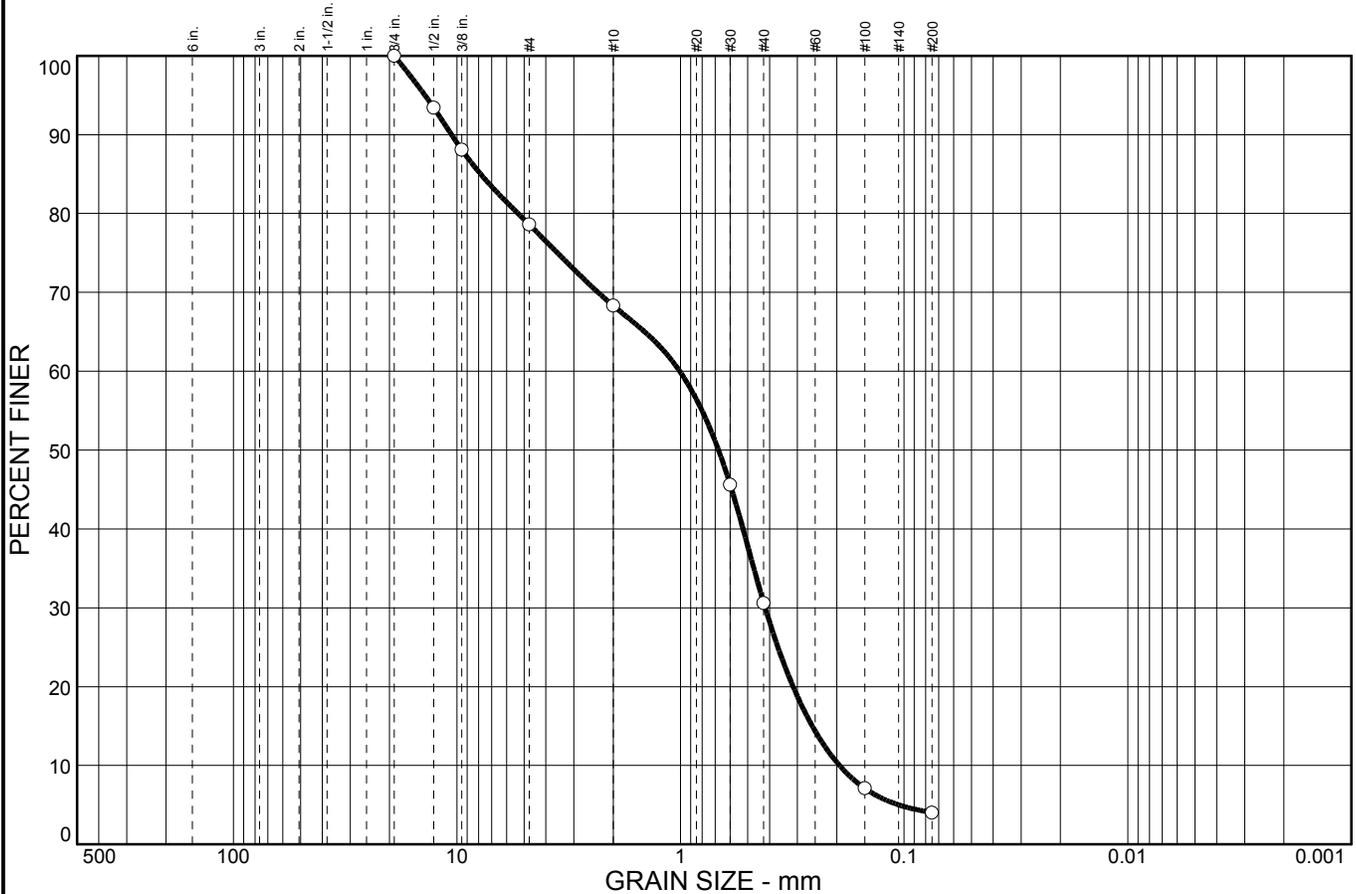
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	21.4	10.3	37.7	26.6	4.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
.5 in.	93.4		
.375 in.	88.1		
#4	78.6		
#10	68.3		
#30	45.6		
#40	30.6		
#100	7.1		
#200	4.0		

Soil Description

SAND, Brown, F-M, Some Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 7.84 D₆₀= 1.01 D₅₀= 0.677
D₃₀= 0.419 D₁₅= 0.258 D₁₀= 0.195
C_u= 5.19 C_c= 0.89

Classification

USCS= SP AASHTO=

Remarks

* (no specification provided)

Sample No.: B9, S2
 Location:

Source of Sample: B9, S2

Date:
 Elev./Depth: 3.5'-5'

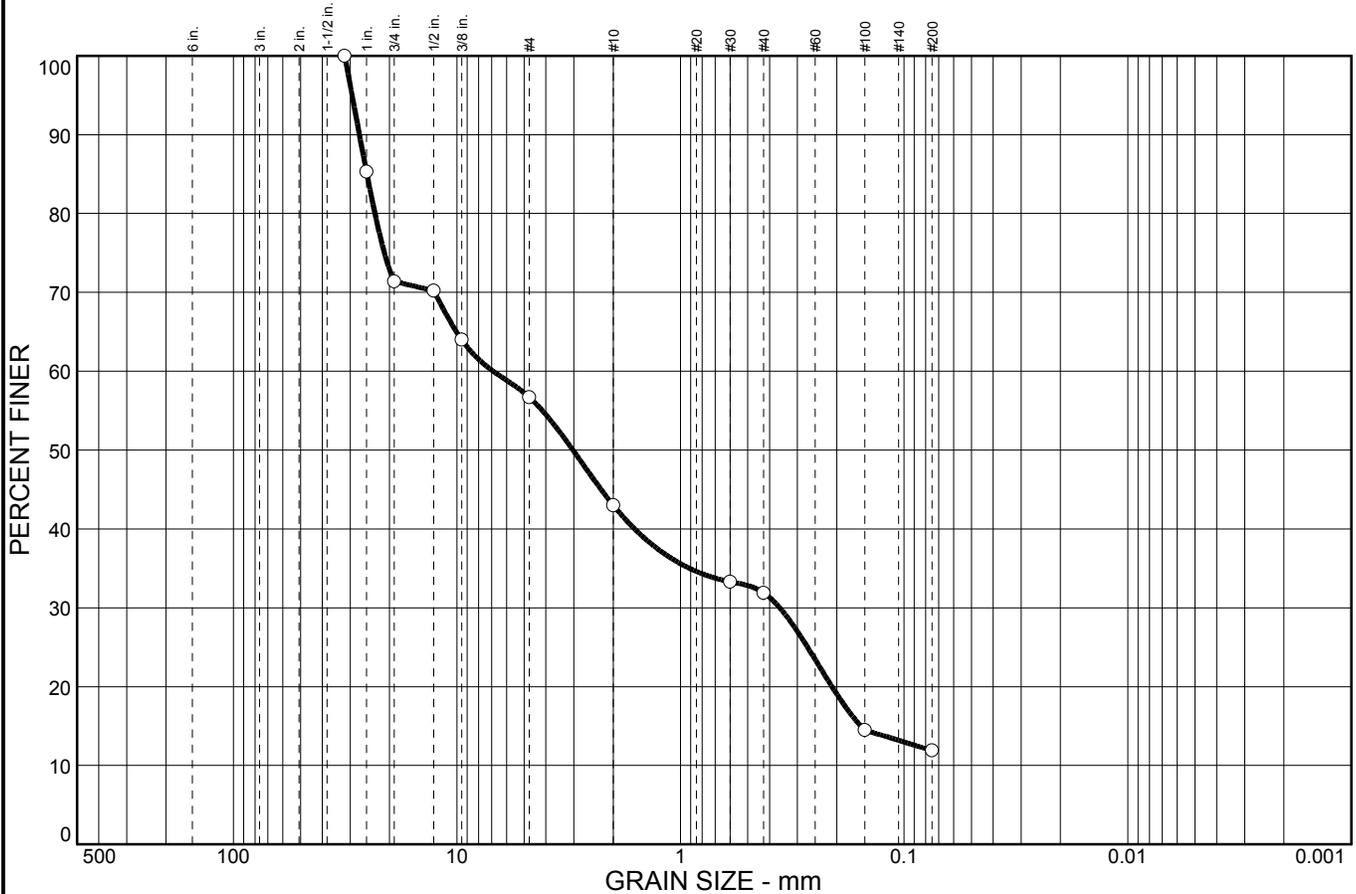
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
 Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	28.6	14.7	13.7	11.1	20.0	11.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.25 in.	100.0		
1 in.	85.3		
.75 in.	71.4		
.5 in.	70.2		
.375 in.	64.0		
#4	56.7		
#10	43.0		
#30	33.3		
#40	31.9		
#100	14.5		
#200	11.9		

Soil Description

SAND & GRAVEL, Brown, Clayey

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 25.3 D₆₀= 6.89 D₅₀= 3.03
D₃₀= 0.360 D₁₅= 0.156 D₁₀=
C_u= C_c=

Classification

USCS= SP-SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B10, S1
Location:

Source of Sample: B10, S1

Date:
Elev./Depth: 0'-2'

NUMMELIN TESTING
SERVICES, INC.

Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.4	2.5	13.2	59.3	22.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
.5 in.	97.9		
.375 in.	97.9		
#4	97.6		
#10	95.1		
#30	88.5		
#40	81.9		
#100	36.3		
#200	22.6		

Soil Description

SAND, Brown, F-M, Some Silt, Trace Gravel

PL= **Atterberg Limits** PI=

Coefficients

D₈₅= 0.482 D₆₀= 0.253 D₅₀= 0.207

D₃₀= 0.120 D₁₅= D₁₀=

C_u= C_c=

USCS= SM **Classification** AASHTO=

Remarks

* (no specification provided)

Sample No.: B11, S1
Location:

Source of Sample: B11, S1

Date:
Elev./Depth: 0'-2'

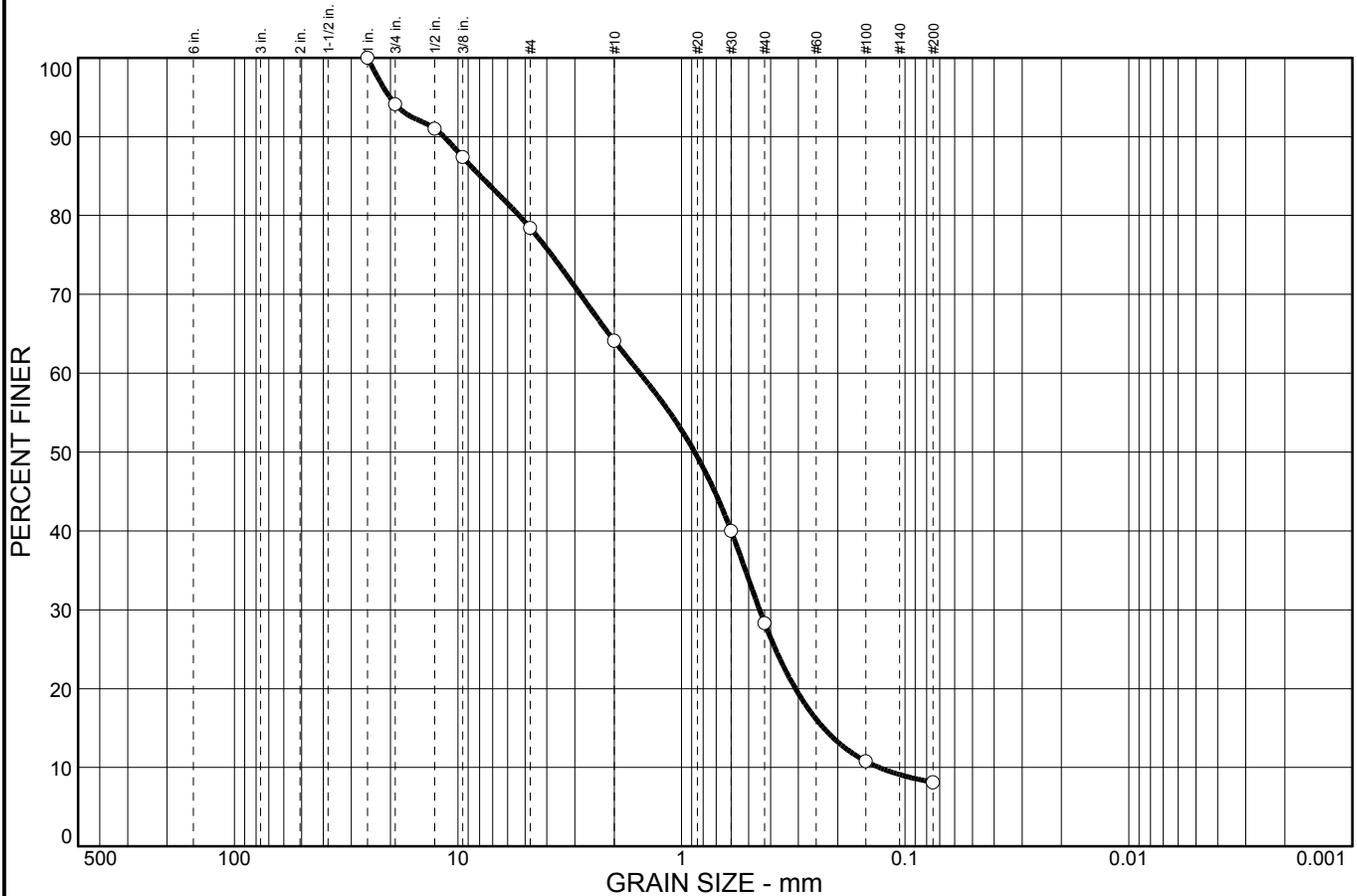
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	5.9	15.7	14.3	35.8	20.2	8.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 in.	100.0		
.75 in.	94.1		
.5 in.	91.0		
.375 in.	87.4		
#4	78.4		
#10	64.1		
#30	40.0		
#40	28.3		
#100	10.8		
#200	8.1		

Soil Description

SAND, Brown, F-C, Some Gravel, Little Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 7.93 D₆₀= 1.54 D₅₀= 0.874
D₃₀= 0.448 D₁₅= 0.231 D₁₀= 0.131
C_u= 11.77 C_c= 1.00

Classification

USCS= SP-SM AASHTO=

Remarks

* (no specification provided)

Sample No.: B12, S2
Location:

Source of Sample: B12, S2

Date:
Elev./Depth: 3.5'-5'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	19.0	6.2	6.0	12.9	30.9	25.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.25 in.	100.0		
1 in.	81.0		
.75 in.	81.0		
.5 in.	81.0		
.375 in.	78.1		
#4	74.8		
#10	68.8		
#30	61.1		
#40	55.9		
#100	33.1		
#200	25.0		

Soil Description

SAND, Brown, F-M, Clayey, Some Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 27.1 D₆₀= 0.550 D₅₀= 0.321
 D₃₀= 0.122 D₁₅= D₁₀=
 C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B13, S1
 Location:

Source of Sample: B13, S1

Date:
 Elev./Depth: 0'-2'

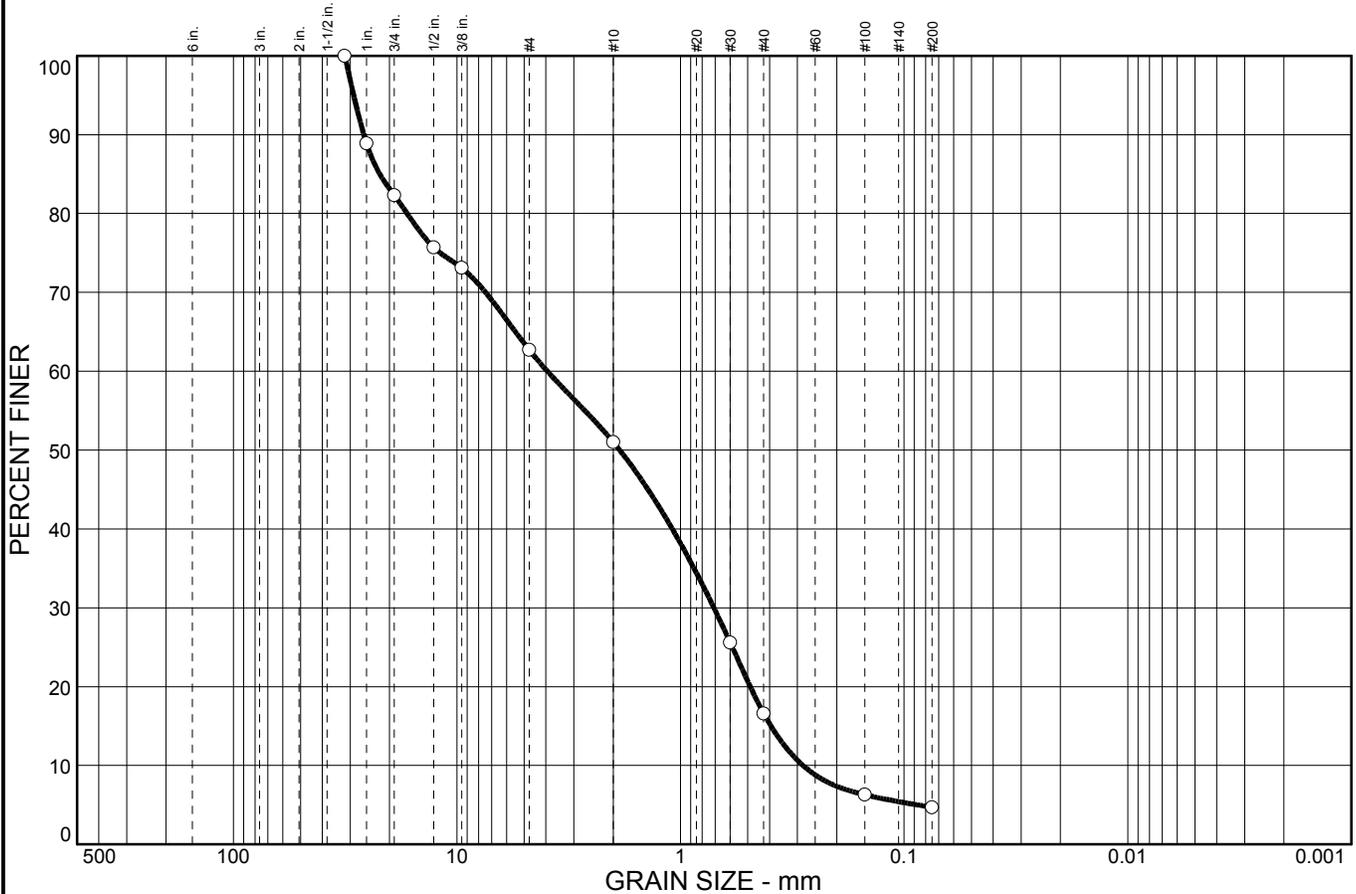
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
 Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	17.7	19.6	11.7	34.4	11.9	4.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.25 in.	100.0		
1 in.	88.9		
.75 in.	82.3		
.5 in.	75.7		
.375 in.	73.1		
#4	62.7		
#10	51.0		
#30	25.6		
#40	16.6		
#100	6.3		
#200	4.7		

Soil Description

SAND & GRAVEL, Brown

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 22.2 D₆₀= 3.94 D₅₀= 1.87
 D₃₀= 0.710 D₁₅= 0.394 D₁₀= 0.283
 C_u= 13.91 C_c= 0.45

Classification

USCS= SP AASHTO=

Remarks

* (no specification provided)

Sample No.: B14, S3
Location:

Source of Sample: B14, S3

Date:
Elev./Depth: 6'-7.5'

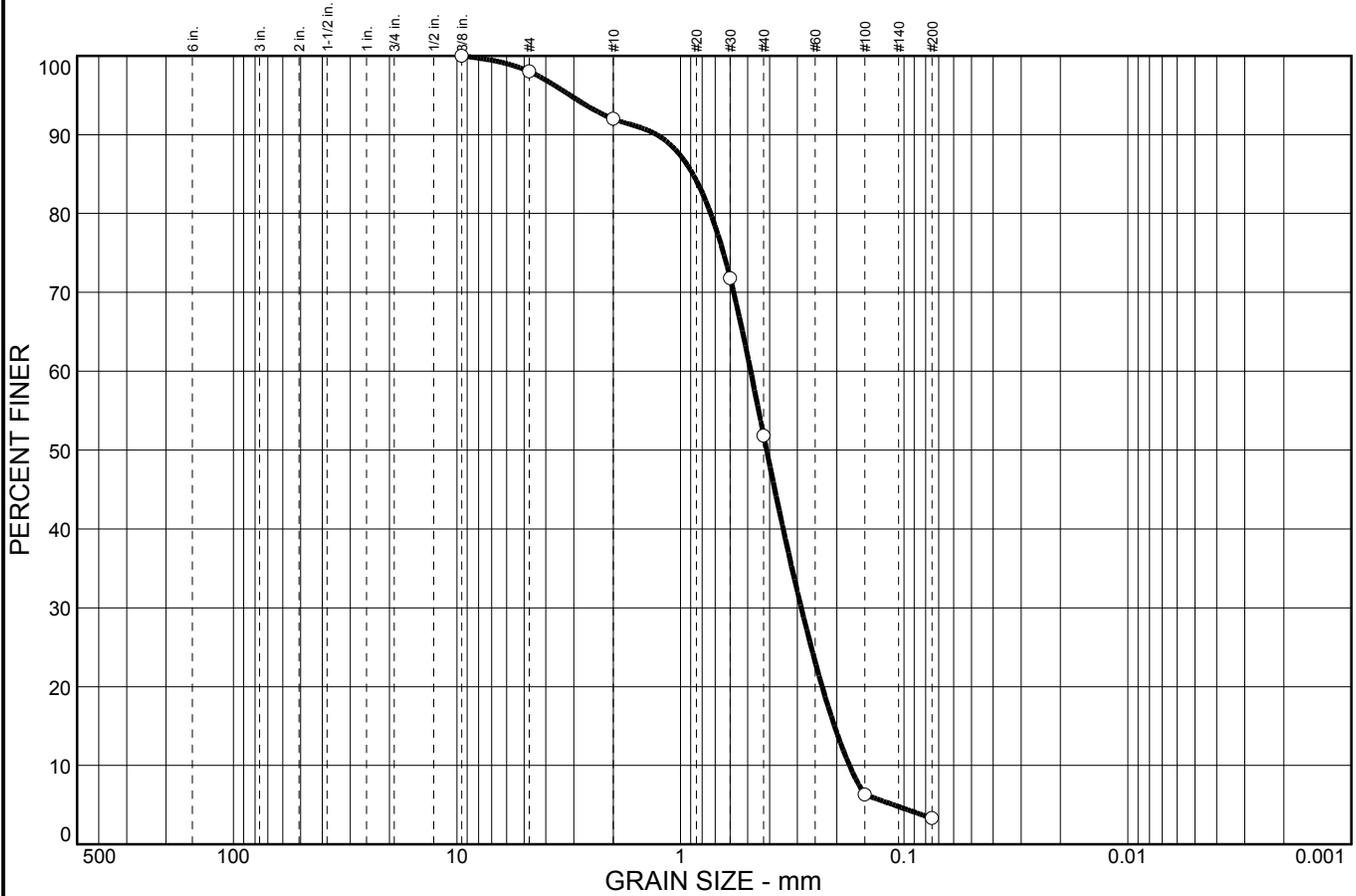
NUMMELIN TESTING SERVICES, INC.

Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.0	6.0	40.2	48.5	3.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	98.0		
#10	92.0		
#30	71.8		
#40	51.8		
#100	6.3		
#200	3.3		

Soil Description

SAND, Light Brown, F-M

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.881 D₆₀= 0.486 D₅₀= 0.413
D₃₀= 0.289 D₁₅= 0.205 D₁₀= 0.176
C_u= 2.77 C_c= 0.98

Classification

USCS= SP AASHTO=

Remarks

* (no specification provided)

Sample No.: B15, S4
Location:

Source of Sample: B15, S4

Date:
Elev./Depth: 9'-10.5'

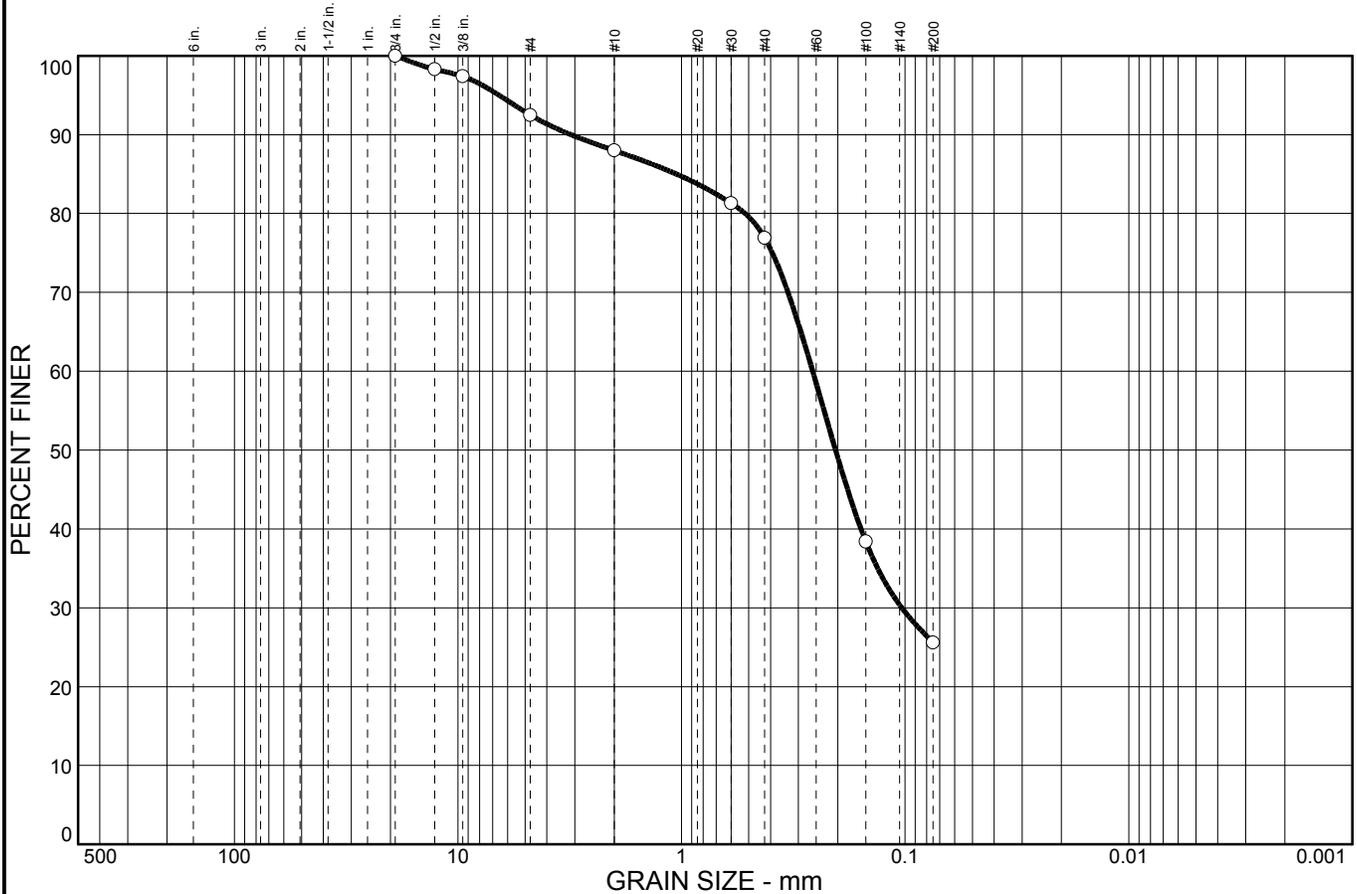
NUMMELIN TESTING
SERVICES, INC.

Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	7.5	4.5	11.1	51.3	25.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
.5 in.	98.3		
.375 in.	97.4		
#4	92.5		
#10	88.0		
#30	81.3		
#40	76.9		
#100	38.4		
#200	25.6		

Soil Description

SAND, Brown, F-M, Some Silt, Little Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 1.05 D₆₀= 0.259 D₅₀= 0.205

D₃₀= 0.104 D₁₅= D₁₀=

C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

* (no specification provided)

Sample No.: B18, S2
Location:

Source of Sample: B18, S2

Date:
Elev./Depth: 3.5'-5'

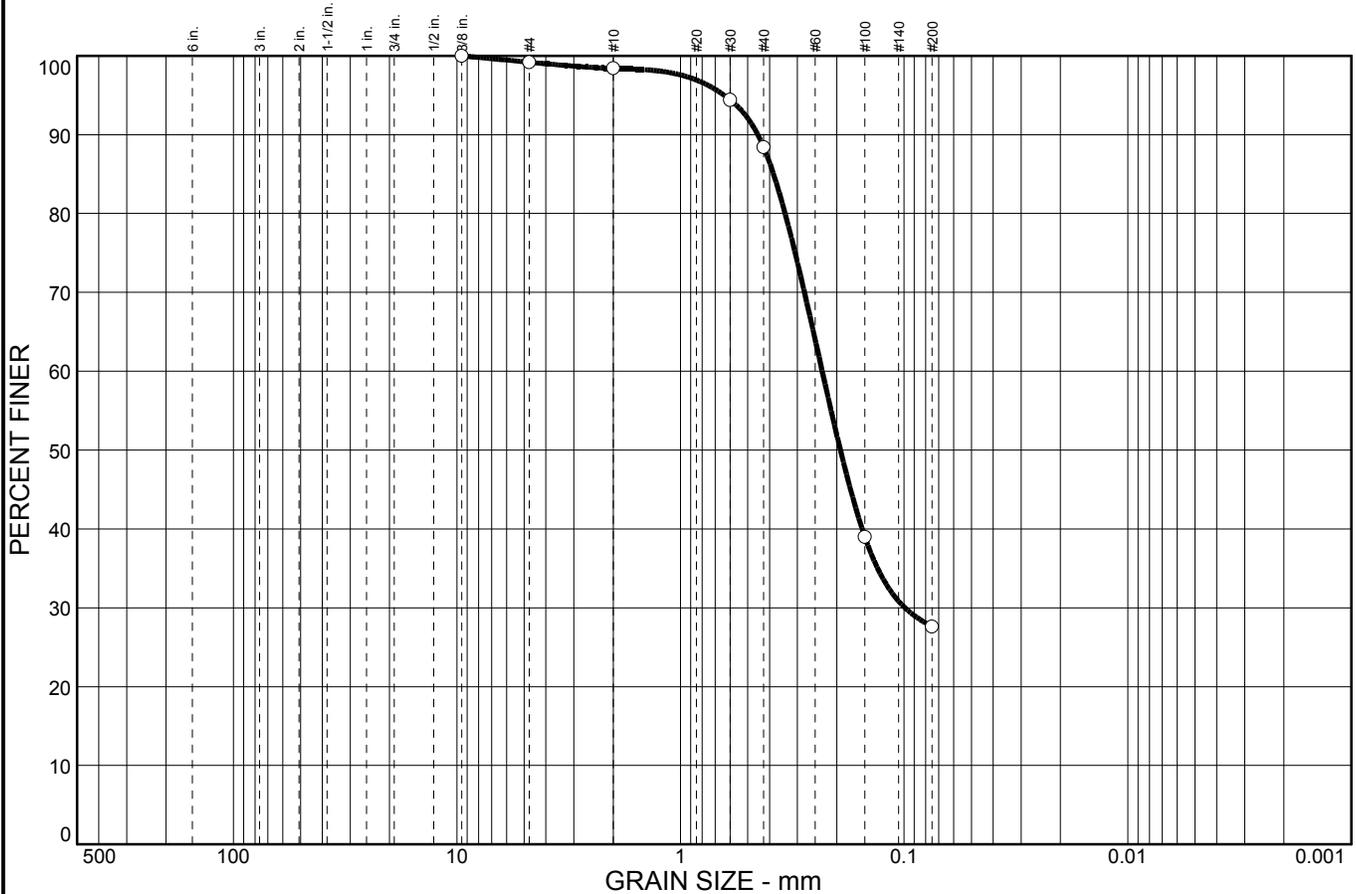
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Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.8	0.8	10.0	60.8	27.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	99.2		
#10	98.4		
#30	94.4		
#40	88.4		
#100	39.0		
#200	27.6		

Soil Description

SAND, Brown, F-M, Some Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.384 D₆₀= 0.233 D₅₀= 0.193
D₃₀= 0.0993 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

* (no specification provided)

Sample No.: B19, S1
Location:

Source of Sample: B19, S1

Date:
Elev./Depth: 0'-2'

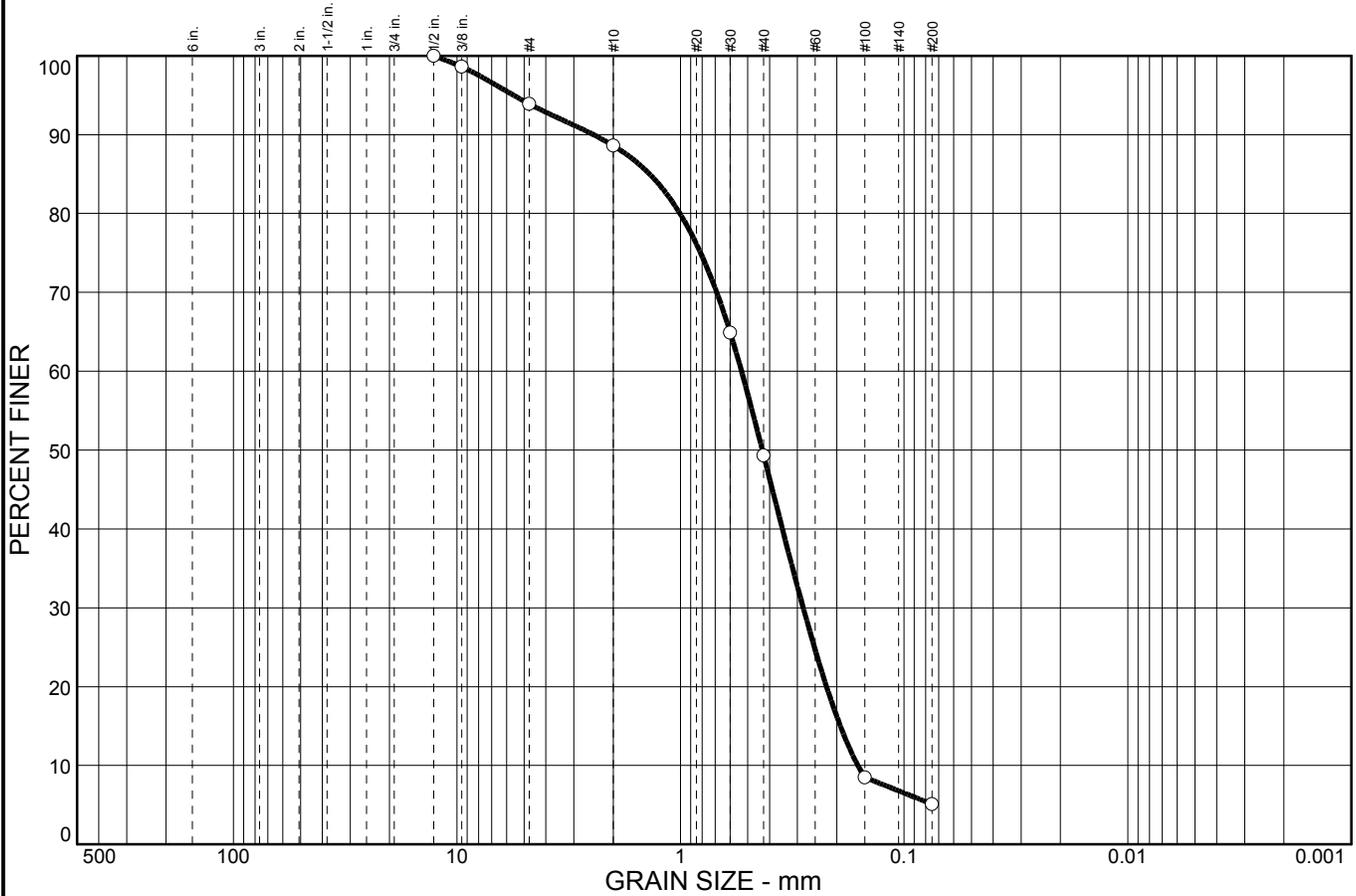
NUMMELIN TESTING
SERVICES, INC.

Client: AECOM
Project: Annexation Project

Project No: 153.66

Figure

Grain Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	6.1	5.3	39.3	44.2	5.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5 in.	100.0		
.375 in.	98.6		
#4	93.9		
#10	88.6		
#30	64.9		
#40	49.3		
#100	8.5		
#200	5.1		

Soil Description

SAND, Brown, F-M, Little Silt, Little Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 1.38 D₆₀= 0.534 D₅₀= 0.431
D₃₀= 0.283 D₁₅= 0.193 D₁₀= 0.161
C_u= 3.31 C_c= 0.93

Classification

USCS= SP AASHTO=

Remarks

* (no specification provided)

Sample No.: B20, S2
 Location:

Source of Sample: B20, S2

Date:
 Elev./Depth: 3.5'-5'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM
 Project: Annexation Project

Project No: 153.66

Figure