

Appendix D

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Advance Testing

3348 Route 208, Campbell Hall, NY 10916
 Phone: 845-496-1600 Fax: 845-496-1398
 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill - PHP-07-16-12-2	Project Number:	120458
Source:	Petricca Hinsdale Pit	Lab Number:	12-0627B
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0627B	Soil Fill - PHP-07-16-12-2	In-Place	312323 2.01 A.1

Sieve Size		%	%	Spec. %
mm	Inches	Retained	Passing	Pass
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	1.0	99.0	
19.0 mm	3/4"	1.2	97.8	
12.5 mm	1/2"	1.0	96.8	
6.3 mm	1/4"	1.2	95.6	
4.75 mm	#4	0.6	95.0	
2.00 mm	#10	2.1	92.9	
0.850 mm	#20	3.4	89.5	
0.600 mm	#30	2.8	86.7	
0.425 mm	#40	4.5	82.2	
0.150 mm	#100	46.8	35.4	
0.075 mm	#200	24.1	11.3	
Pan		11.3		

Comments: Test results comply with specification
 Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

10/30/12

☒ REVIEWED
☐ REVIEWED & NOTED
☐ REVISE & RESUBMIT

☐ REJECTED
☐ For information only
☐ Received, no action taken

Reviewed solely for general conformance with contract documents
 ARCADIS of New York, Inc.
 Signature *[Signature]* PDF
 Date 8/2/12

Advance Testing

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill - PHP-07-16-12-8	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628C-1
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

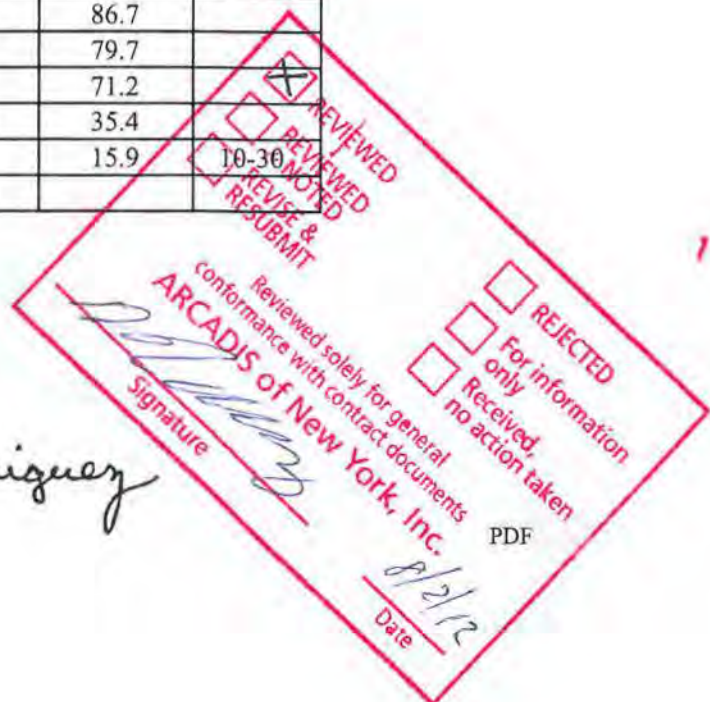
Lab Number	Sample Type	Sampling Location	Specification
12-0628C-1	Granular Cap Material - PHP-07-16-12-8	In-Place	312323 2.01 A.1

Sieve Size		%	%	Spec. %
mm	Inches	Retained	Passing	Pass
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.6	99.4	
19.0 mm	3/4"	0.5	98.9	
12.5 mm	1/2"	0.7	98.2	
6.3 mm	1/4"	0.9	97.3	
4.75 mm	#4	0.8	96.5	
2.00 mm	#10	2.6	93.9	
0.850 mm	#20	7.2	86.7	
0.600 mm	#30	7.0	79.7	
0.425 mm	#40	8.5	71.2	
0.150 mm	#100	35.8	35.4	
0.075 mm	#200	19.5	15.9	
Pan		15.9		

Comments: Test results comply with specification
 Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:



Advance Testing

3348 Route 208, Campbell Hall, NY 10916
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill- PHP-07-16-12-9	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628D-1
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0628D-1	Granular Cap Material - PHP-07-16-12-9	In-Place	312323 2.01 A.1

Sieve Size		%	%	Spec. %
mm	Inches	Retained	Passing	Pass
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.1	99.9	
6.3 mm	1/4"	0.6	99.3	
4.75 mm	#4	0.4	98.9	
2.00 mm	#10	1.4	97.5	
0.850 mm	#20	2.2	95.3	
0.600 mm	#30	2.0	93.3	
0.425 mm	#40	3.5	89.8	
0.150 mm	#100	42.5	47.3	
0.075 mm	#200	34.2	13.1	
Pan		13.1		

Comments: Test results comply with specification
 Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:



TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE <i>(Read instructions on reverse side prior to initiating this form)</i>	DATE 7/30/12	Submittal No. 0002
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SECTION I – REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS

TO: Construction Manager ATTN: Mark Gravelding, P.E. ARCADIS 6723 Towpath Road Syracuse, NY 13214 Email: mark.gravelding@arcadis-us.com	FROM: Severson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305	General Electric Company Purchase Order Number:	CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO: (Cover only one section with each transmittal) 313219	PROJECT TITLE AND LOCATION: Silver Lake Removal Action Area Pittsfield, MA 01201		CHECK ONE: THIS TRANSMITTAL IS FOR <input type="checkbox"/> FIO <input checked="" type="checkbox"/> APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. (See instruction No. 8)	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION (See Instruction No. 6)	FORCE USE CODE
				SPEC. PARA NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
13	Geotextile Fabric - Manufacturer's data for geotextile fabric including, at a minimum, physical properties, packaging, and installation techniques.			313219 (Part 1.04)	26			
14	Geotextile Fabric - The origin (resin supplier's name and resin production plant) and identification (brand name and number) of the resin used to manufacture the geotextile fabric.			313219 (Part 1.04)	26			
15	Geotextile Fabric - Material sample of geotextile fabric.			313219 (Part 1.04)	26			
16	Geotextile Fabric - Manufacturer's installation procedures and specifications.			313219 (Part 1.04)	26			
17	Geotextile Fabric - Manufacturer's QA/QC program.			313219 (Part 1.04)	26			
18	Geotextile Fabric - Results of QC tests conducted by the Manufacturer during the manufacturing of the field-delivered geotextile fabric. The results shall identify the sections/panels of the fabric they represent. The Contractor shall also provide the lot and roll identification numbers for the field-delivered geotextile fabric.			313219 (Part 1.04)	26			
19	Geotextile Fabric - Written certification that the MARVs provided in the Material Specifications are guaranteed by the Manufacturer.			313219 (Part 1.04)	26			
20	Geotextile Fabric - Contractor's proposed transportation, handling, storage, and installation techniques for the geotextile fabric.			313219 (Part 1.04)	26			

21								
22	Geotextile Fabric - Manufacturer's standard warranty provided for the geotextile fabric.			313219 (Part 1.04)	26			
23				313219 (Part 1.04)	26			
24								
25	Geotextile Fabric - Installer's written certification (provided prior to the installation of the geotextile fabric) that the surface on which the geotextile fabric will be installed is acceptable. The certification is subject to the review and approval or rejection by GE or GE's Representative.			313219 (Part 1.04)	26			
26	Geotextile Fabric - Results of QC tests conducted by the Manufacturer. The QC test results shall include lot and roll identification numbers representative of the field-delivered material. At a minimum, results shall be given in accordance with the Technical Drawings and Specifications for: <ul style="list-style-type: none"> • Unit Weight (ASTM D5261). • Grab Strength (ASTM D4632). • Trapezoidal Tear Strength (ASTM D4533). • Puncture (ASTM D4833 or ASTM6241). • Apparent Opening Size (ASTM D4751). • Permeability (ASTM D4491) (not required for cushioning geotextile). 			313219 (Part 1.04)	26			

REMARKS

Please note the following:

Item No 16: Manufacturer's installation procedures still need to be provided
Item No 18: Lot and roll ID #'s will need to be provided for any geotextile delivered to the site, when available
Item No 20: Contractor's transportation, handling, storage, and installation techniques for geotextile fabric still need to be provided.

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

Name (TITLE)

Michael W. Muth - Project Manager

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)

NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY

DATE

ENG FORM 4025-R, MAR 95
415-1-10)

(ER EDITION OF SEP 93 IS OBSOLETE
SHEET 1 OF 1

(PROPONENT: CEMP-CE)

☐ REVIEWED

☐ REJECTED

☒ REVIEWED & NOTED

☐ For information only

☐ REVISE & RESUBMIT

☐ Received, no action taken

Reviewed solely for general conformance with contract documents

ARCADIS of New York, Inc.

Signature

Date

8/2/12

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PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical	ASTM D 4632		
Grab Tensile Strength		0.89 kN	200 lbs
Grab Tensile Elongation		15%	
Mullen Burst		2758 kPa	400 psi
Trapezoidal Tear		0.33 kN	75 lbs
Puncture		0.42 kN	95 lbs
CBR Puncture		3.11 kN	700 lbs
<input type="checkbox"/> Endurance			
UV Resistance	ASTM D 4355	70% @ 500 hrs	
<input type="checkbox"/> Hydraulics / Filtration			
Permittivity	ASTM D 4491	0.05 sec ⁻¹	
Water Flow Rate		204 lpm/m ²	5 gpm/ft ²
Percent Open Area	CW-02215	<1%	
Apparent Opening Size (AOS)	ASTM D 4751	0.425 mm	40 US Std. Sieve

■ Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV), are calculated as the Typical minus two standard deviations and are based on a 97.7% confidence level.

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J W Df Yg XYbhi

Carthage Mills makes no warranty, express or implied, including but not limited to warranties of fitness for a particular purpose or merchantability concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. If, at the time of delivery, the product does not meet Carthage Mills current published specifications and written notice of the deficiency is given to Carthage Mills prior to installation of the product, Carthage Mills will replace the product with materials meeting the quality and specification stated herein at no additional charge or refund the purchase price of the deficient material.

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PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical	ASTM D 4632		
Grab Tensile Strength		0.91 kN	205 lbs
Grab Tensile Elongation		50%	
Mullen Burst		2410 kPa	350 psi
Trapezoidal Tear		0.36 kN	80 lbs
Puncture		0.49 kN	110 lbs
CBR Puncture	ASTM D 6241	2.34 kN	525 lbs
<input type="checkbox"/> Endurance	ASTM D 4355		
UV Resistance		70% @ 500 hrs	
<input type="checkbox"/> Hydraulics / Filtration			
Permittivity		1.40 sec ⁻¹	
Water Flow Rate	ASTM D 4491	3657 lpm/m ²	90 gpm/ft ²
Apparent Opening Size (AOS)	ASTM D 4751	0.180 mm	80 US Std. Sieve

■ Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV), are calculated as the Typical minus two standard deviations and are based on a 97.7% confidence level.

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Hca HfbYf
J WdfYgXYbhi

Carthage Mills makes no warranty, express or implied, including but not limited to warranties of fitness for a particular purpose or merchantability concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. If, at the time of delivery, the product does not meet Carthage Mills current published specifications and written notice of the deficiency is given to Carthage Mills prior to installation of the product, Carthage Mills will replace the product with materials meeting the quality and specification stated herein at no additional charge or refund the purchase price of the deficient material.

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(&' < i bhFclX , \$S! (' ! (' \$`HC@: F99`
7]bWbbH]ZC< `() (& &)% !+ (! (' (: 57G=A@9`
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GlbW%) , . 5a YfWgFirst; YchM h`Y7ca dUbm

Quality Control Program Outline

Definition of Lot:

5' d'UbbYXdfcX Wjcb'ei UbhlmUgZnb[U`cZhYZ`ck]b[.

- A Ubi ZWfYX i bXf' hY gLa Y a UfU' gYWZWHcbz']bW X]b[' nufb' UbX kYj Y gYWZWHcbg"
- =XbhZYXUghYgLa YgmYfZUM]WXg[bU]cbL"
- K \Yb hYXZ\Uj]b['d\ng]W WUFUMf]g]W Wbgghbkh]h' di V]g\YXj Ui Yg"

Quality Control Sampling of Each Lot:

5gUa]b]a i a žUbi a Vf`cZdfcX Wjcb' i b]lgg\U`VYgYWMXUfUbXca Zca YUW`ch]b UMWXLbW k]h HUVY%

TABLE 1 **Number of Units to be Selected as Lot Sample
Specification Conformance**

Number of Units in Lot			Number of Units Selected
%	lc	&	%
'	lc	,	&
-	lc	&+	'
&	lc	*((
*)	lc	%&)
%&*	lc	&%	*
&%	lc	'('	+
'((lc)&	,
)%	lc	+&	-
+' \$	lc	\$\$\$	%\$
%%\$%	lc	a cfY	%%

BchY 5' d'fX Wjcb' i b]lggWbgXfYXlc VYUg\]da Ybhfc`"

Hnd]W`nzhYZfghg\]da Ybhfc`Zca YUW`cca `fc`k]`VYgLa d'YX`-hk]`VYbWggUfmit WbgXf' hY a]b]a i a 'd'UbbYXdfcX Wjcb'ei Ubhlmrc XfMfa]bY]Za cfY ZYei YbhgLa d']b['UbX hYg]b['lg fYei]fYX"

Publishing Physical Property Values:

9j Yfma Ubi ZMI f|b| 'dfcWgg\Ug|b\YfYbhj Uf|U|]lmi Bchicb`mXc`UMi U`dfcdYfhYg`cZh YZb|g\YX
dfcXi Wj UfmiUbXca`mUfci bX`Hf|Yh`dfcXi Wjcb`j Ui Yg`h Y`fYbX`cf`XfZi`cZh YgYdfcdYfhYg
j Uf|Yg`k|h`ha YUfci bXh YHf|Yh`H`fYZcfYZ WUFUMf|g|WdfcdYfhYg`cZa UHf|U`dfcXi WXXi f|b|`
Ubn|j Yb`ha Yk|`L`YmVYX|ZZfYbhU`bdfcdYfhYg`cZa UHf|U`dfcXi WXUhiU`UHf`ha Y`

5gUfYg`lZ|h|g`bchdcgg|VYlc`dfcj|XYj Ui Yg`a cbh`g|b`Uj UbW`cZdfcXi Wjcb`k\|W`k|`UWfUYmi
fYZWUMi U`a UHf|U`dfcdYfhYg`UhiU`ha Yg`5hVYgZ`|g`cf|W`fYg`lg`Wb VYfYdfchXk|h`cdYg`h`U
dfcXi Wjcb`Yb\UbWa Yb|g`Wb`VY`a UXYlc`fYXi W`a Ubi ZMI f|b|`Uj U|U|]lmiUbX`ja dfcj YfYdfchX
d\ng|W`dfcdYfhYg`FYU|g|W`nZgbW`gc`a Ubn|dfcdYfhYg`UfYV|b|`UUbWX`Z|h|g`a cghWUf`UbX
\cbYg`h`c`fYdfch`a Ubi ZMI f|b|`Hf|Yh`cf`Hnd|W`j Ui Yg`UbX`a`|b|a i a`j Ui Yg`VYck`k\|W`h`Y
a UHf|U`lg`Wb|gXfYXlc`\Uj Yd\ng|W`WUFUMf|g|W`Y Wggj YmVYX|ZZfYbhZca`hcgYcZch`Y`a UHf|U`
|b`h`Yg`a`Y`ch|Y`|fYUf`h`Ub`&`lc`g`h`b`XfXXj|UjcbgVYck`h`Y`Hf|Yh`j Ui Yg`

Minimum Average Roll Values (MARV):

=bXi gfm\Ug|W|bYXh`YHfa`A 5FJ lc`fYZWU-) 1`WbZXyBW`Yj Y`Hc`h`YA Ubi ZMI fYf`h`|g`a`Yubg
h`U- +) 1`cZU`a UHf|U`dfcXi WXg`ci`X`Y`WYXU|j Yb`A 5FJ`GUhg|W`nZ|h`|g`|g`Yei|j UYbhlc`h`Y
a`YbZl`Z`Ygg`h`c`g`h`b`XfXXj|UjcbgZ&`

G|bWl`UbX`σ`j Ufncj`Y`ha`YUbXUfYi`b|ei`Ylc`Ubm|j Yb`dY|cX`cZdfcXi Wjcb`h`YA 5FJ`Zcf`U|j Yb`
a`cbh`cZdfcXi Wjcb`a`UmVYg|b|ZWbhm|]\`Y`cf`ck`Y`h`Ub`UA 5FJ`WW`UH`Xf`Y`Uj YU`YX`cj`Y`
Ub`Ybh|fYnU`

5gUfYg`lZ|h|g`cb`ndcgg|VYlc`WbZXybh`mVH`ZnUA 5FJ`g`h`W`Z`W`h`cb`U`Zm`fY`Zff|b|`lc`h`Y`UMi U`
h`g`h`fYg`lg`Zf`h`Yg`|da`Ybhfc`g`lc`VYdfcj|XXXf|bXch`Yg`dfcXi WX|b`h`Yg`a`Y`ha`YZU`a`Y`

Packaging and Shipments:

5`Ych|h`Y`fc`g`g`U`VY`Z`fb|g`YX`k|h`g`|HUVY`kfUdd|b|`Zf`dfchWjcb`U`Ubg`h`a`clgi`fY`UbX
Y`Hb`XX`i`Hf|j`c`Yh`Y`dcg`fY`df|cf`lc`d`UWa`Ybh`9UW`fc`g`U`VY`UY`YX`cf`H|`YX`lc`dfcj|XY
dfcXi W|Xybh|ZW|cb`g`Z|Wb|Zcf`|b|Yb|cfm|UbXei`U|lmiWb|fc`di`fdcgYg`Fc`g`g`U`VY`g`cfYX`|b`U
a`UbbY`k\|W`dfchWg`h`Ya`Zca`h`Y`Y`Ya`Yb|g`=Z`g`cfYX`ci`H`ccfZ`h`Ym`g`U`VY`Y`Y`U`X`UbX
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Z fb]g`YX`YfY bXYf`ch`Yf`h Ub`Uh`Yh`a YcZXY`lj Yfm]hg`U`VYcZh`Yei U`]mLbX
gdYWZ`W]cb`g`UHX`YfY]b`"5bm]a d`]YXk UffUbhm cZ]bYggZcf UdUfhW`Uf`di fdcgY]g`
Yl dfYgg`mM W`XXXZUbXZhc`h`Yl`h`b`h`h`U`h]g`WbhfUfnc`h`YZcfY]c]b[`gYb`h`b`WZUbni
]a d`]YXk UffUbhm cZa YfWUbhU]`]m]g`Yl dfYgg`mM W`XXX"5bm]fYWa a YbXU]cbg`a UXY
VngY`Yf`WbWfb]b[`h`Yi`gYgcf`Udd`]W]cbg`cZgU]XdfcXi W`UfYVY]Yj YXfY]UVYUbX
gY`Yf`a U_Ygbc k UffUbhm cZfYg`hg`c`VYcVhU]bYX`"Zh`YdfcXi W`XcYgbchia Yh7UfhU`Y
A]`g`WffYb`h`di V]g`YXgdYWZ`W]cbgZUbXh YWg`ca Yf`[`lj Ygbch`W]h`7UfhU`YA]`g`
VYZcfY]bg`U`]b[`h`YdfcXi W`Zh`Yb`7UfhU`YA]`g`k]`fYd`UW`h`YdfcXi W`k]h`ci hWUf`Y
cf`fYZ bX`h`Ydi fWUgYdf]W`

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FX-55 Geotextile Fabric section 313219; Item 2.02 (E)

Company: < Y`Yb]WDMfc`Yi a 'G'5"

Location: =cb]Už; F!) (%\$ H YggUcb]_ž; fYWW

Brand: 9W`Yb

Number: < N\$?.

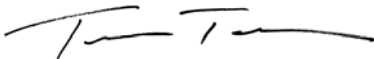
FX-80HS Geotextile Fabric section 313219; Item 2.02 (C)

Company: HcHU DYfcWYa]Wgž6fUg_Ya '5a Yf]W

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Certification of Compliance

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■ FX[®]-55

[illegible]

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical	ASTM D 4632		
Grab Tensile Strength		0.89 kN	200 lbs
Grab Tensile Elongation		15%	
Mullen Burst		2758 kPa	400 psi
Trapezoidal Tear		0.33 kN	75 lbs
Puncture		0.42 kN	95 lbs
CBR Puncture	ASTM D 6241	3.11 kN	700 lbs
<input type="checkbox"/> Endurance	ASTM D 4491		
UV Resistance		70% @ 500 hrs	
<input type="checkbox"/> Hydraulics / Filtration			
Permittivity		0.05 sec ⁻¹	
Water Flow Rate		204 lpm/m ²	5 gpm/ft ²
Percent Open Area	CW-02215	<1%	
Apparent Opening Size (AOS)	ASTM D 4751	0.425 mm	40 US Std. Sieve

■ Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV), are calculated as the Typical minus two standard deviations and are based on a 97.7% confidence level.

Cb V\ UZcZ7Ufh U YA]`gž=\FYVnWfhZrh Y: L!)) 'a Ymgh YfYei JfYa YblgcZGWMcb" %&%; YchM h'Y: UfJW
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Carthage Mills makes no warranty, express or implied, including but not limited to warranties of fitness for a particular purpose or merchantability concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. If, at the time of delivery, the product does not meet Carthage Mills current published specifications and written notice of the deficiency is given to Carthage Mills prior to installation of the product, Carthage Mills will replace the product with materials meeting the quality and specification stated herein at no additional charge or refund the purchase price of the deficient material.

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■ FX[®]-80HS

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PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical	ASTM D 4632		
Grab Tensile Strength		0.91 kN	205 lbs
Grab Tensile Elongation		50%	
Mullen Burst		2410 kPa	350 psi
Trapezoidal Tear		0.36 kN	80 lbs
Puncture		0.49 kN	110 lbs
CBR Puncture	ASTM D 6241	2.34 kN	525 lbs
<input type="checkbox"/> Endurance	ASTM D 4355		
UV Resistance		70% @ 500 hrs	
<input type="checkbox"/> Hydraulics / Filtration			
Permittivity		1.40 sec ⁻¹	
Water Flow Rate	ASTM D 4491	3657 lpm/m ²	90 gpm/ft ²
Apparent Opening Size (AOS)	ASTM D 4751	0.180 mm	80 US Std. Sieve

■ Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV), are calculated as the Typical minus two standard deviations and are based on a 97.7% confidence level.

Cb V\ UZcZ7Ufh U YA j`g=\ YfYmMFhZrh Y: L!, \$< G'a Ymgh YfYei JfYa YblgcZGwJcb" %&; Ychd h'Y : UfIWha 'g"S&f7L"

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Carthage Mills makes no warranty, express or implied, including but not limited to warranties of fitness for a particular purpose or merchantability concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. If, at the time of delivery, the product does not meet Carthage Mills current published specifications and written notice of the deficiency is given to Carthage Mills prior to installation of the product, Carthage Mills will replace the product with materials meeting the quality and specification stated herein at no additional charge or refund the purchase price of the deficient material.

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[illegible]

REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)
	Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR

SECTION II – APPROVAL ACTION		
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE



ENG FORM 4025-R, MAR 95
415-1-10)

(ER

EDITION OF SEP 93 IS OBSOLETE
SHEET __1_ OF _1_

(PROPONENT: CEMP-CE)

(see each sample)

<input type="checkbox"/> REVIEWED	<input checked="" type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
	
Signature	Date

Advance Testing

3348 Route 208, Campbell Hall, NY 10916
 Phone: 845-496-1600 Fax: 845-496-1398
 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill - PHP-07-16-12-1	Project Number:	120458
Source:	Petricca Hinsdale Pit	Lab Number:	12-0627A
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE
Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0627A	Soil Fill - PHP-07-16-12-1	In-Place	312323 2.01 A.1

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	1.1	98.9	
19.0 mm	3/4"	0.8	98.1	
12.5 mm	1/2"	1.0	97.1	
6.3 mm	1/4"	4.1	93.0	
4.75 mm	#4	1.7	91.3	
2.00 mm	#10	10.2	81.1	
0.850 mm	#20	17.9	63.2	
0.600 mm	#30	8.6	54.6	
0.425 mm	#40	9.5	45.1	
0.150 mm	#100	31.7	13.4	
0.075 mm	#200	8.5	4.9	10-30
Pan		4.9		

☐ REVIEWED
☒ REVIEWED & NOTED
☐ REVISE & RESUBMIT
☐ REJECTED
☐ For information only
☐ Received with no action
 Reviewed solely for general conformance with contract documents
 ARCADIS of New York, Inc.
 Signature

slightly less than spec (OK)

Comments: Test results do not comply with specification
 Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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Advance Testing

3348 Route 208, Campbell Hall, NY 10916
Phone: 845-496-1600 Fax: 845-496-1398
25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill - PHP-07-16-12-3	Project Number:	120458
Source:	Petricca Hinsdale Pit	Lab Number:	12-0627C
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Radmacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0627C	Soil Fill - PHP-07-16-12-3	In-Place	312323 2.01 A.1 Soil Fill

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100.0 ✓
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.8	99.2	
19.0 mm	3/4"	0.9	98.3	
12.5 mm	1/2"	1.8	96.5	
9.5 mm	3/8"	3.5	93.0	
4.75 mm	#4	1.6	91.4	
2.00 mm	#10	5.2	86.2	
0.850 mm	#20	9.1	77.1	
0.600 mm	#30	5.8	71.3	
0.425 mm	#40	6.6	64.7	
0.150 mm	#100	36.4	28.3	
0.075 mm	#200	19.8	8.5	10-30
Pan		8.5		

slightly less than spec (OK)

- ☐ REVIEWED
- ☒ REVIEWED & NOTED
- ☐ REVISE & RESUBMIT

☐ REJECTED

☐ For information only

☐ Received no action taken

Reviewed solely for general conformance with contract documents

ARCADIS of New York, INC.

Signature

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill - PHP-07-16-12-4	Project Number:	120458
Source:	Petricca Hinsdale Pit	Lab Number:	12-0627D
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0627D	Soil Fill - PHP-07-16-12-4	In-Place	312323 2.01 A.1

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	0.7	99.3	
4.75 mm	#4	0.0	99.3	
2.00 mm	#10	0.1	99.2	
0.850 mm	#20	0.0	99.2	
0.600 mm	#30	0.0	99.2	
0.425 mm	#40	0.1	99.1	
0.150 mm	#100	10.9	88.2	
0.075 mm	#200	37.7	50.5	10-30
Pan		50.5		

- ☐ REVIEWED
- ☐ REVIEWED & NOTED
- ☐ REVISE & RESUBMIT

- ☒ REJECTED
- ☐ For information only
- ☐ Received, no action taken

Reviewed solely for general conformance with contract documents
ARCADIS of New York, Inc.

Signature

significantly more than spec (rejected)

Comments: Test results do not comply with specification
Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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25 Hathorn Road, Enfield, NH 03748

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill - PHP-07-16-12-5	Project Number:	120458
Source:	Peticea Hinsdale Pit	Lab Number:	12-0627E
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0627E	Soil Fill - PHP-07-16-12-5	In-Place	312323 2.01 A.1

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.1	99.9	
6.3 mm	1/4"	0.5	99.4	
4.75 mm	#4	0.3	99.1	
2.00 mm	#10	0.3	98.8	
0.850 mm	#20	0.6	98.2	
0.600 mm	#30	1.7	96.5	
0.425 mm	#40	6.3	90.2	
0.150 mm	#100	70.0	20.2	
0.075 mm	#200	16.6	3.6	10-30
Pan		3.6		

- ☐ REVIEWED
- ☒ REVIEWED & NOTED
- ☐ REVISE & RESUBMIT

☐ REJECTED

☐ For information only

☐ Received, no action taken

Reviewed solely for general conformance with contract documents
ARCADIS of New York, Inc.

Signature

Slightly less than spec (ok)

Comments: Test results do not comply with specification
Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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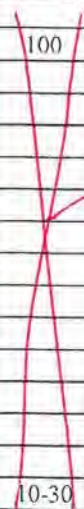
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 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill - PHP-07-16-12-6	Project Number:	120458
Source:	Petruca Hinsdale Pit	Lab Number:	12-0628A-1
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0628A-1	Granular Cap Material - PHP-07-16-12-6	In-Place	312323 2.01 A.1

Sieve Size		%	%	Spec. %
mm	Inches	Retained	Passing	Pass
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	3.6	96.4	
25.0 mm	1"	4.5	91.9	
19.0 mm	3/4"	1.3	90.6	
12.5 mm	1/2"	3.4	87.2	
6.3 mm	1/4"	6.5	80.7	
4.75 mm	#4	2.8	77.9	
2.00 mm	#10	9.9	68.0	
0.850 mm	#20	10.2	57.8	
0.600 mm	#30	5.2	52.6	
0.425 mm	#40	5.8	46.8	
0.150 mm	#100	24.9	21.9	
0.075 mm	#200	13.2	8.7	
Pan		8.7		

not the spec for cap material

Comments: Test results do not comply with specification
 Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Granular Cap Material - PHP-07-16-12-6	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628A
Location:	In-Place	Item Number:	312323 2.01 A.2 Granular Cap
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/23/2012-07/23/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	88.9	
#4	4.75	77.9	
#10	2.00	68.0	
#40	0.425	47.5	
#200	0.075	10.0	
Hydrometer Analysis Results	0.050	5.9	
	0.020	2.4	
	0.010	2.0	
	0.005	1.9	
	0.002	1.4	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)			Spec.
Gravel	(3 inches to #10)	32.0%	5%
Fraction Passing #10:			
Sand	(#10 to 0.05 mm)	(62% of total) 91.3%	75%
Silt	(0.05 mm to 0.002 mm)	3 (6% of total) 6.6%	20%
Clay	(Less than 0.002 mm)	2.1%	
Total		100.0%	
USDA Soil Textural Class		Sand	

☐ REVIEWED

☐ REJECTED

☒ REPORT REVIEWED BY: *Emily J. Rodriguez*

☒ & NOTED

☐ REVISE & RESUBMIT

☐ Received, no action taken

Reviewed solely for general
conformance with contract documents

ARCADIS of New York, Inc.

Signature

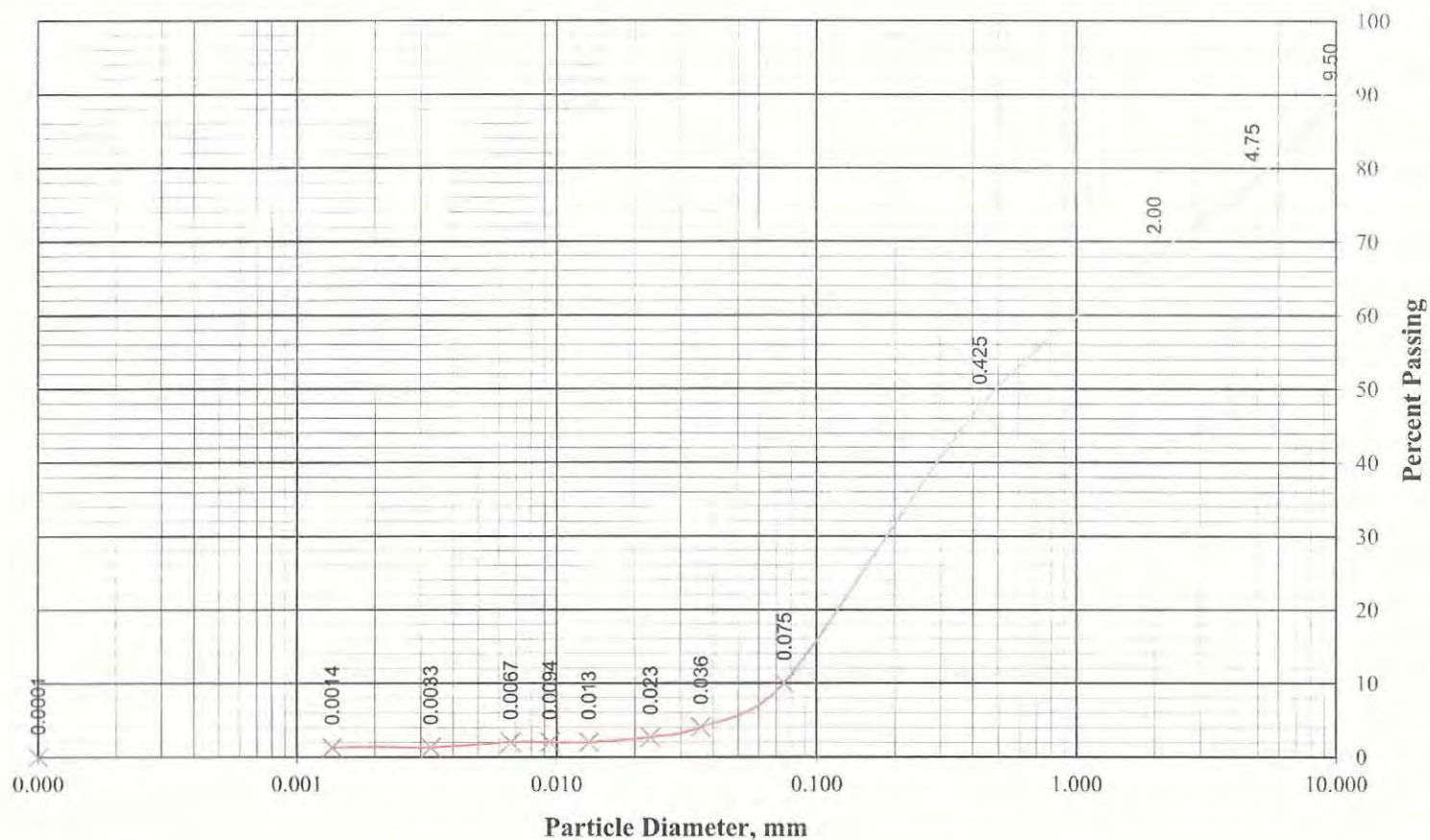
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Date

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 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Granular Cap Material - PHP-07-16-12-6	Project Number:	120458
Source:	Petrica Hinsdale Pit	Lab Number:	12-0628A
Location:	In-Place	Item Number:	312323 2.01 A.2 Granular Cap
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/23/2012-07/23/2012	Tested By:	John Brinsfield



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 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill- PHP-07-16-12-7	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628B-1
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0628B-1	Granular Cap Material - PHP-07-16-12-7	In-Place	312323 2.01 A.1

Sieve Size		%	%	Spec. %
mm	Inches	Retained	Passing	Pass
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	3.6	96.4	
19.0 mm	3/4"	1.0	95.4	
12.5 mm	1/2"	4.0	91.4	
6.3 mm	1/4"	4.7	86.7	
4.75 mm	#4	2.2	84.5	
2.00 mm	#10	6.4	78.1	
0.850 mm	#20	11.0	67.1	
0.600 mm	#30	7.6	59.5	
0.425 mm	#40	8.8	50.7	
0.150 mm	#100	29.5	21.2	
0.075 mm	#200	13.6	7.6	10-30
Pan		7.6		

*Not the
Spec for
cap material*

Comments: Test results do not comply with specification
 Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Granular Cap Material - P11P-07-16-12-7	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628B
Location:	In-Place	Item Number:	312323 201 A.2 Granular Cap
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/23/2012-07/23/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	90.1	
#4	4.75	84.5	
#10	2.00	78.1	
#40	0.425	50.7	
#200	0.075	7.6	
Hydrometer Analysis Results	0.050	5.1	
	0.020	4.2	
	0.010	3.2	
	0.005	2.0	
	0.002	1.8	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	21.9%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	93.5%
Silt	(0.05 mm to 0.002 mm)	4.2%
Clay	(Less than 0.002 mm)	2.3%
Total		100.0%
USDA Soil Textural Class		Sand

Spec
5%

75%
20%

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☒ REVIEWED & NOTED

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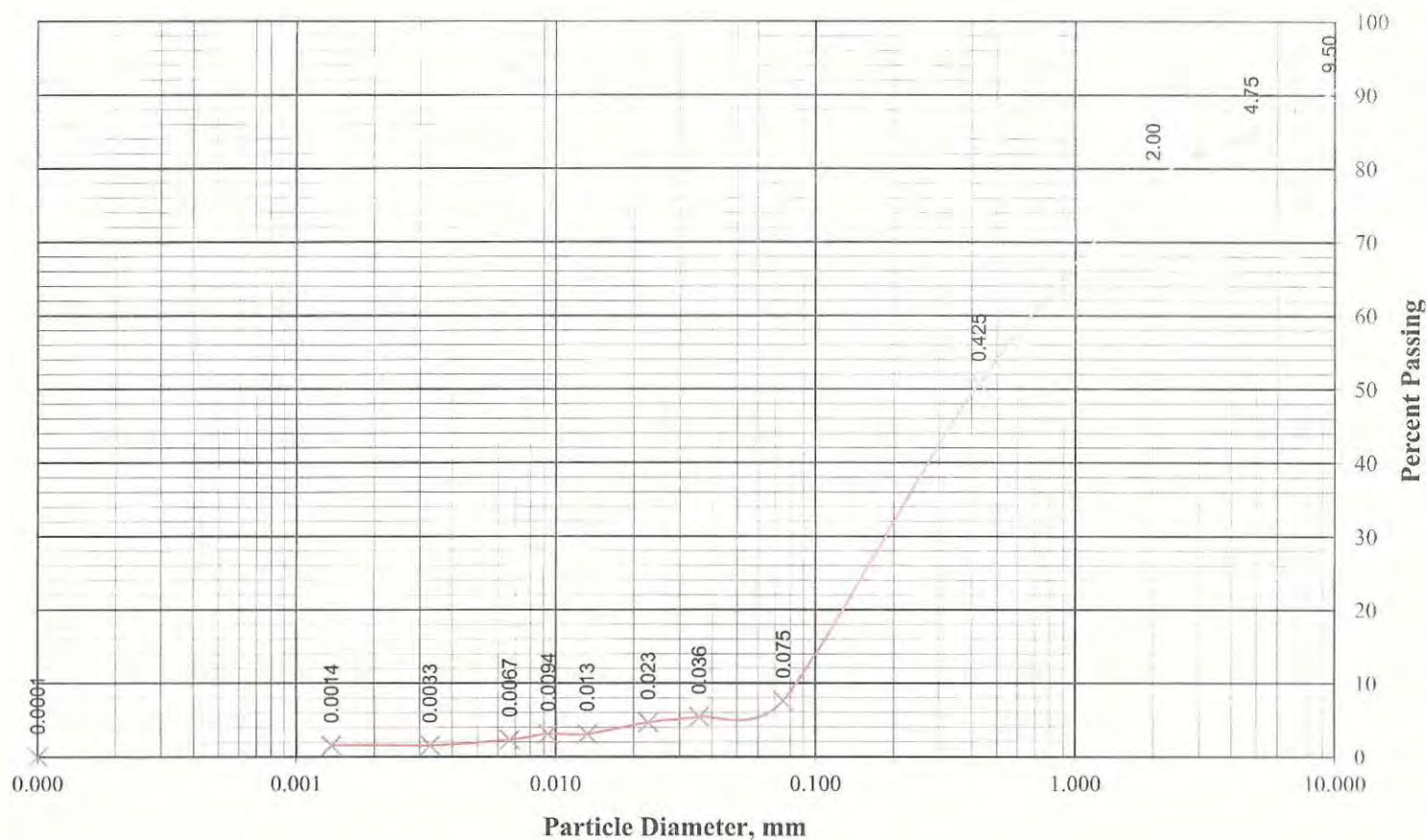
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 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Granular Cap Material - PHIP-07-16-12-7	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628B
Location:	In-Place	Item Number:	312323 201 A.2 Granular Cap
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/23/2012-07/23/2012	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill - PHP-07-16-12-8	Project Number:	120458
Source:	Petrica Hinsdale Pit	Lab Number:	12-0628C-1
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0628C-1	Granular Cap Material - PHP-07-16-12-8	In-Place	312323 2.01 A.1

Sieve Size		%	%	Spec. %
mm	Inches	Retained	Passing	Pass
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.6	99.4	
19.0 mm	3/4"	0.5	98.9	
12.5 mm	1/2"	0.7	98.2	
6.3 mm	1/4"	0.9	97.3	
4.75 mm	#4	0.8	96.5	
2.00 mm	#10	2.6	93.9	
0.850 mm	#20	7.2	86.7	
0.600 mm	#30	7.0	79.7	
0.425 mm	#40	8.5	71.2	
0.150 mm	#100	35.8	35.4	
0.075 mm	#200	19.5	15.9	10-30
Pan		15.9		

not the spec for cap material

Comments: Test results comply with specification
 Minus #200 by wash-sieve method.

Emily J. Rodriguez

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Granular Cap Material - PHP-07-16-12-8	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628C
Location:	In-Place	Item Number:	312323 201 A.2 Granular Cap
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/23/2012-07/23/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	97.9	
#4	4.75	96.5	
#10	2.00	93.9	
#40	0.425	71.2	
#200	0.075	15.9	
Hydrometer Analysis Results	0.050	9.8	
	0.020	4.2	
	0.010	3.9	
	0.005	2.3	
	0.002	2.0	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)			Spec.
Gravel	(3 inches to #10)	6.1%	5%
Fraction Passing #10:			
Sand	(#10 to 0.05 mm)	(84.1% of total) 89.6%	75%
Silt	(0.05 mm to 0.002 mm)	2 (9.8% of total) 8.3%	20%
Clay	(Less than 0.002 mm)	2.1%	
Total		100.0%	
USDA Soil Textural Class		Loamy Sand	

Emily J. Rodriguez

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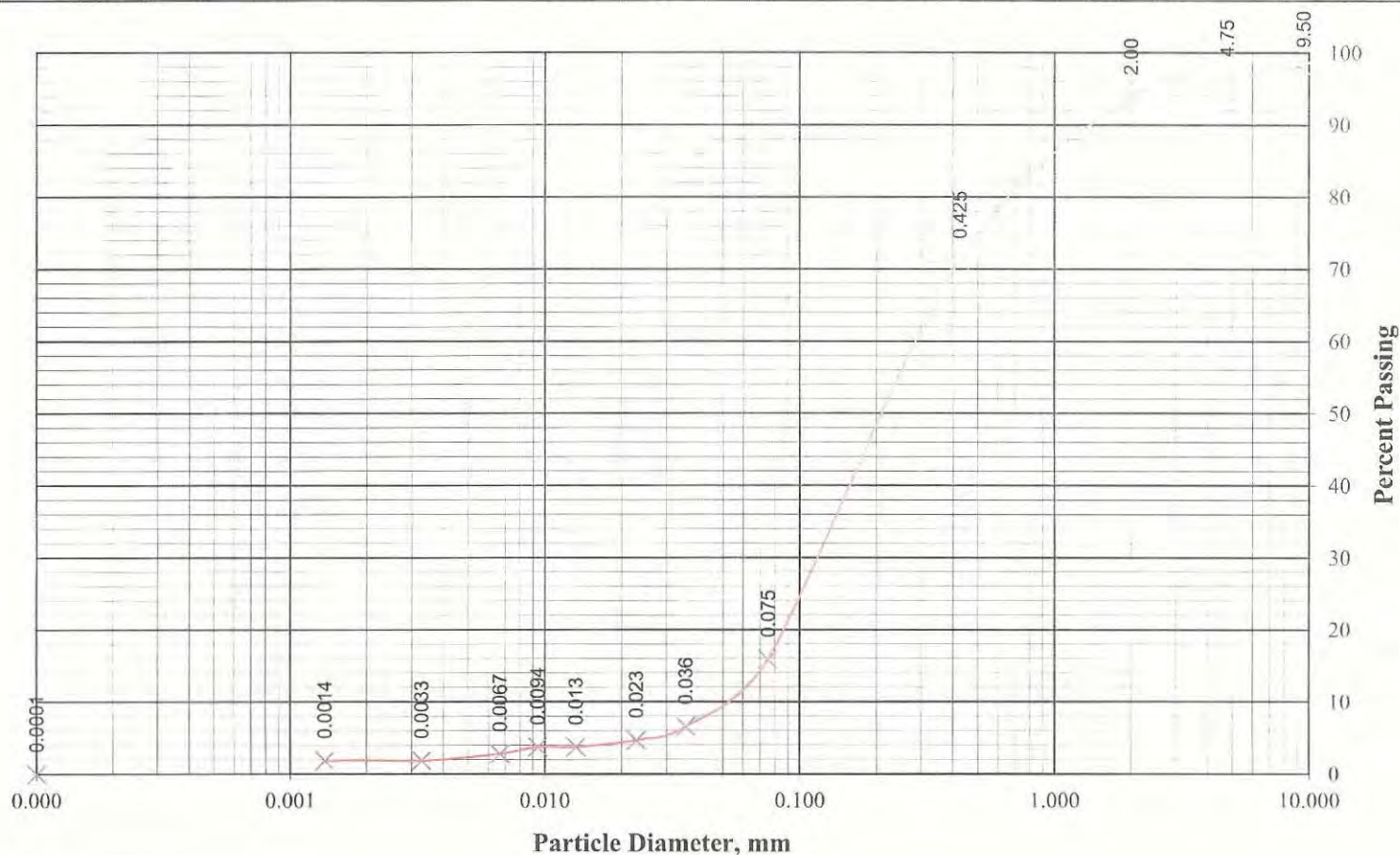
Date

8/2/12



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 42 Day Farm Road, West Stockbridge, MA 01266
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Granular Cap Material - PHP-07-16-12-8	Project Number:	120458
Source:	Petrica Hinsdale Pit	Lab Number:	12-0628C
Location:	In-Place	Item Number:	312323 201 A.2 Granular Cap
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/23/2012-07/23/2012	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Soil Fill- PHP-07-16-12-9	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628D-1
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/19/2012	Tested By:	Justin Rademacher

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0628D-1	Granular Cap Material - PHP-07-16-12-9	In-Place	312323 2.01 A.1

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	100
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.1	99.9	
6.3 mm	1/4"	0.6	99.3	
4.75 mm	#4	0.4	98.9	
2.00 mm	#10	1.4	97.5	
0.850 mm	#20	2.2	95.3	
0.600 mm	#30	2.0	93.3	
0.425 mm	#40	3.5	89.8	
0.150 mm	#100	42.5	47.3	
0.075 mm	#200	34.2	13.1	10-30
Pan		13.1		

not the spec
for cap material

Comments: Test results comply with specification
 Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Granular Cap Material - PHP-07-16-12-9	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0628D
Location:	In-Place	Item Number:	312323 201 A.2 Granular Cap
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/23/2012-07/23/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	100.0	
#4	4.75	100.0	
#10	2.00	98.8	
#40	0.425	89.8	
#200	0.075	13.1	
Hydrometer Analysis Results	0.050	6.7	
	0.020	3.8	
	0.010	2.0	
	0.005	2.0	
	0.002	2.0	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 mm.

SAND & GRAVEL PARTICLES: Rounded Mix of Hard and Weak Particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)			Spec.
Gravel	(3 inches to #10)	1.2%	5%
Fraction Passing #10:			
Sand	(#10 to 0.05 mm) (92.1% of total)	93.2%	75%
Silt	(0.05 mm to 0.002 mm) 3 (6.7% of total)	4.8%	20%
Clay	(Less than 0.002 mm)	2.0%	
Total		100.0%	
USDA Soil Textural Class		Sand	

Emily J. Rodriguez

REPORT REVIEWED BY:

- ☐ REVIEWED
☐ REVIEWED & NOTED
☐ REVISE & RESUBMIT

- ☐ REJECTED
☐ For information only
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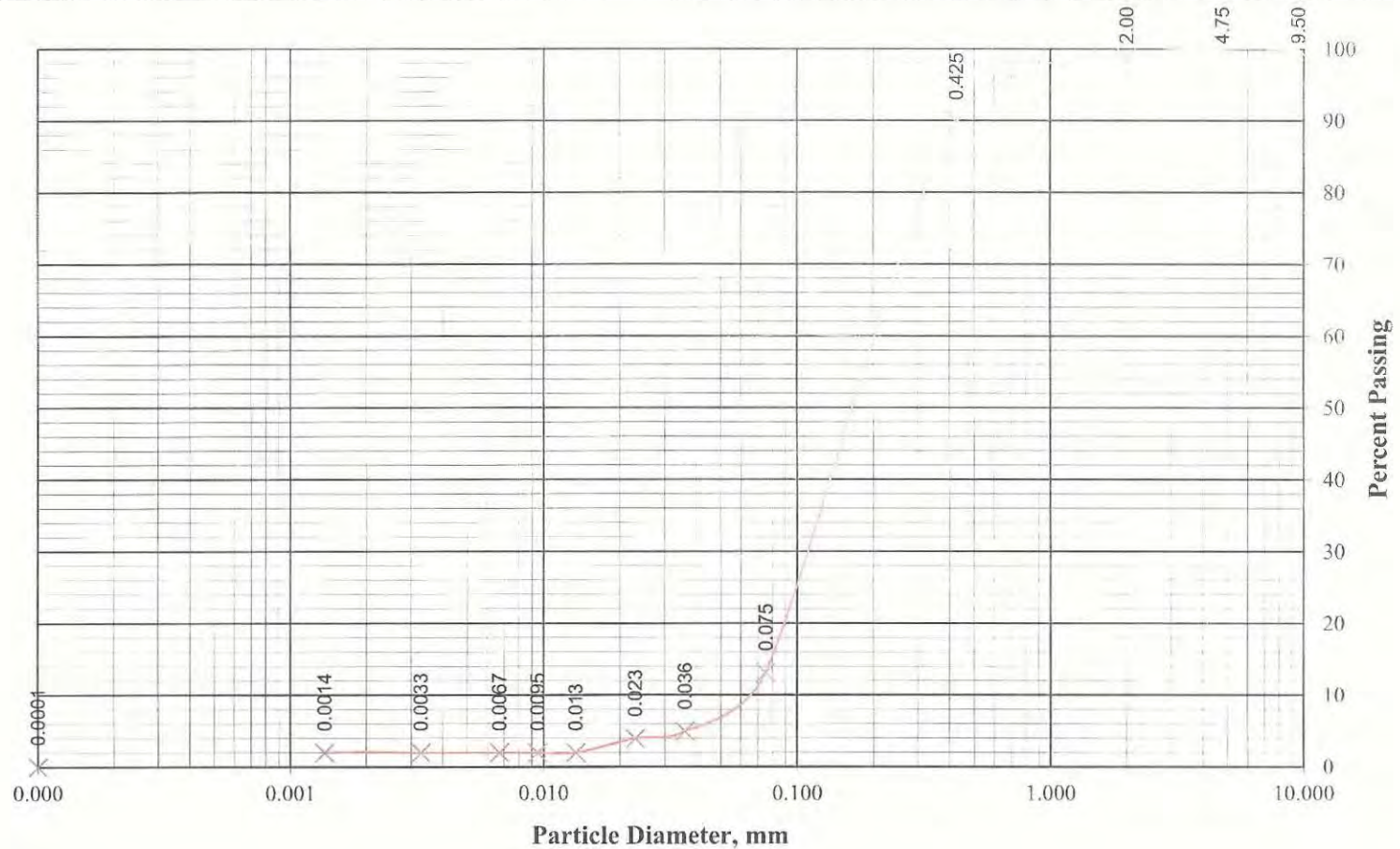
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Granular Cap Material - P1IP-07-16-12-9	Project Number:	120458
Source:	Petrica Hinsdale Pit	Lab Number:	12-0628D
Location:	In-Place	Item Number:	312323 201 A.2 Granular Cap
Date Sampled:	7/18/2012	Sampled By:	Client
Date Tested:	7/23/2012-07/23/2012	Tested By:	John Brinsfield



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[illegible]

REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)
	Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR

SECTION II – APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE
----------------------------------------	--------------------------------------------------	------

ENG FORM 4025-R, MAR 95
415-1-10)

(ER

EDITION OF SEP 93 IS OBSOLETE
SHEET __1__ OF __1__

(PROPONENT: CEMP-CE)

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
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[Signature] 8/2/12
Signature Date

— Since — **Advance Testing** — 1984 —

CONSTRUCTION MATERIALS TESTING & INSPECTION SERVICES

July 31, 2012

Re: Severson Environmental
Silver Lake Removal Action
Pittsfield, MA

Mr. Michael Muth,

A representative of Advance Testing Company Inc. was present on the above referenced date to perform a field gradation analysis on material proposed for use as shoreline protection on the Silver Lake Removal Action project.

A representative sample of crushed, processed ledge rock was obtained and evaluated for particle size distribution to determine its acceptability for use as shoreline protection. A summary of the results are listed below, with desired size range.

Particle Size	% Pass	D ₅₀ = 3"
5"	100	100 ✓
4"	82	
3"	48	50 ✓ slightly coarse; OK
2"	17	
1 1/2"	4	0 ✓ slightly fine; OK

Please feel free to contact me with any questions regarding this inspection.

Yours Truly,
Robert Patton



Advance Testing Co. Inc.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken

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 8/2/12
Date

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Since 1984

CONSTRUCTION MATERIALS TESTING & INSPECTION SERVICES

July 31, 2012

Re: Severson Environmental
Silver Lake Removal Action
Pittsfield, MA

Mr. Michael Muth,

A representative of Advance Testing Company Inc. was present on the above referenced date to perform a field gradation analysis on material proposed for use as shoreline protection on the Silver Lake Removal Action project.

A representative sample of crushed, processed ledge rock was obtained and evaluated for particle size distribution to determine its acceptability for use as shoreline protection. A summary of the results are listed below, with desired size range.

Particle Size	% Pass	D ₅₀ = 5"
8"	100	100 ✓
7"	93	
6"	86	
5"	50	50 ✓
4"	25	
3"	4	0 ✓ slightly fine; OK

Please feel free to contact me with any questions regarding this inspection.

Yours Truly,
Robert Patton



Advance Testing Co. Inc.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken

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ARCADIS of New York, Inc.


Signature

8/2/12
Date

DATE: 7/31/2012 PLANT: Lucia

TECHNICIAN: Robert Patton

Trial ProductionITEM: D₅₀ = 5"

SIEVE SIZE	WT. RET	% RET	% PASS	SPEC
8"	0.00	0.0	100.0	
7"	67.10	7.1	92.9	
6"	69.50	7.3	85.6	
5"	339.60	35.7	49.9	
4"	242.10	25.5	24.5	
3"	199.15	20.9	3.5	
PAN	33.70	3.5	0.0	
TOTAL	951.15	100.0		

ITEM: D₅₀ = 3"

SIEVE SIZE	WT. RET	% RET	% PASS	SPEC
		0.0	100.0	
5"	0.00	0.0	100.0	
4"	63.10	17.8	82.2	
3"	122.50	34.6	47.6	
2"	109.95	31.1	16.5	
1 1/2"	45.70	12.9	3.6	
PAN	12.75	3.6	0.0	
TOTAL	354.00	100.0		

ITEM:

SIEVE SIZE	WT. RET	% RET	% PASS	SPEC
PAN				
TOTAL	0.0	0.0		

ITEM:

SIEVE SIZE	WT. RET	% RET	% PASS	SPEC
PAN				
TOTAL	0.0	0.0		

ITEM:

SIEVE SIZE	WT. RET	% RET	% PASS	SPEC
PAN				
TOTAL	0.0	0.0		

ITEM:

SIEVE SIZE	WT. RET	% RET	% PASS	SPEC
PAN				
TOTAL	0.0	0.0		

ITEM:

SIEVE SIZE	WT. RET	% RET	% PASS	SPEC
PAN				
TOTAL	0.0	0.0		

ITEM:

SIEVE SIZE	WT. RET	% RET	% PASS	SPEC
PAN				
TOTAL	0.0	0.0		

[illegible]



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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Gravel Habitat Layer NGS-08-07-12-GH1	Project Number:	120458
Source:	NGS	Lab Number:	12-0694B
Date Sampled:	8/7/2012	Sampled By:	Client
Date Tested:	8/9/2012	Tested By:	Mark Greenstein

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0694B	Gravel Habitat Layer NGS-08-07-12-GH1	Stockpile	312323 4.A Gravel Habitat Layer

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	100
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	5.1	94.9	
25.0 mm	1"	11.4	83.5	50-100
19.0 mm	3/4"	5.6	77.9	
12.5 mm	1/2"	7.3	70.6	
6.3 mm	1/4"	11.2	59.4	
4.75 mm	#4	3.7	55.7	
2.00 mm	#10	11.6	44.1	
0.850 mm	#20	12.4	31.7	
0.600 mm	#30	3.6	28.1	
0.425 mm	#40	3.4	24.7	
0.150 mm	#100	10.3	14.4	
0.075 mm	#200	6.2	8.2	0-30
Pan		8.2		

Comments: **Test results comply with specification**
Minus #200 by wash-sieve method.

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Gravel Habitat Layer NGS-08-07-12-GH2	Project Number:	120458
Source:	NGS	Lab Number:	12-0694C
Date Sampled:	8/7/2012	Sampled By:	Client
Date Tested:	8/9/2012	Tested By:	Mark Greenstein

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0694C	Gravel Habitat Layer NGS-08-07-12-GH2	Stockpile	312323 4.A Gravel Habitat Layer

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	100
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	3.9	96.1	
25.0 mm	1"	14.7	81.4	50-100
19.0 mm	3/4"	7.1	74.3	
12.5 mm	1/2"	9.7	64.6	
6.3 mm	1/4"	9.5	55.1	
4.75 mm	#4	3.6	51.5	
2.00 mm	#10	10.6	40.9	
0.850 mm	#20	9.2	31.7	
0.600 mm	#30	2.7	29.0	
0.425 mm	#40	2.5	26.5	
0.150 mm	#100	8.1	18.4	
0.075 mm	#200	4.8	13.6	0-30
Pan		13.6		

Comments: **Test results comply with specification**
Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Gravel Habitat Layer NGS-08-07-12-GH3	Project Number:	120458
Source:	NGS	Lab Number:	12-0694D
Date Sampled:	8/7/2012	Sampled By:	Client
Date Tested:	8/9/2012	Tested By:	Mark Greenstein

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0694D	Gravel Habitat Layer NGS-08-07-12-GH3	Stockpile	312323 4.A Gravel Habitat Layer

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	100
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	5.7	94.3	
25.0 mm	1"	8.2	86.1	50-100
19.0 mm	3/4"	4.7	81.4	
12.5 mm	1/2"	7.7	73.7	
6.3 mm	1/4"	11.1	62.6	
4.75 mm	#4	4.6	58.0	
2.00 mm	#10	13.3	44.7	
0.850 mm	#20	12.1	32.6	
0.600 mm	#30	3.6	29.0	
0.425 mm	#40	3.4	25.6	
0.150 mm	#100	10.6	15.0	
0.075 mm	#200	6.2	8.8	0-30
Pan		8.8		

Comments: **Test results comply with specification**
Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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[illegible]

REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
	Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	

SECTION II – APPROVAL ACTION		
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

ENG FORM 4025-R, MAR 95
415-1-10)

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EDITION OF SEP 93 IS OBSOLETE
SHEET __1__ OF __1__

(PROPONENT: CEMP-CE)

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	8/17/02 Date



3348 Route 208, Campbell Hall, NY 10916
Phone: 845-496-1600 Fax: 845-496-1398
25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Sand/Topsoil NGS-08-07-12-1	Project Number:	120458
Source:	NGS	Lab Number:	12-0694A
Location:	Stockpile	Item Number:	312323 5.A Sand/Topsoil
Date Sampled:	8/7/2012	Sampled By:	Client
Date Tested:	8/10/2012-08/13/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	96.2	
#4	4.75	95.9	
#10	2.00	94.0	
#40	0.425	75.7	
#200	0.075	21.9	
Hydrometer Analysis Results	0.050	13.6	
	0.020	4.2	
	0.010	3.9	
	0.005	2.7	
	0.002	2.4	
	0.001	2.0	

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	6.0%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	85.5%
Silt	(0.05 mm to 0.002 mm)	11.9%
Clay	(Less than 0.002 mm)	2.6%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Emily J. Rodriguez

REPORT REVIEWED BY: _____

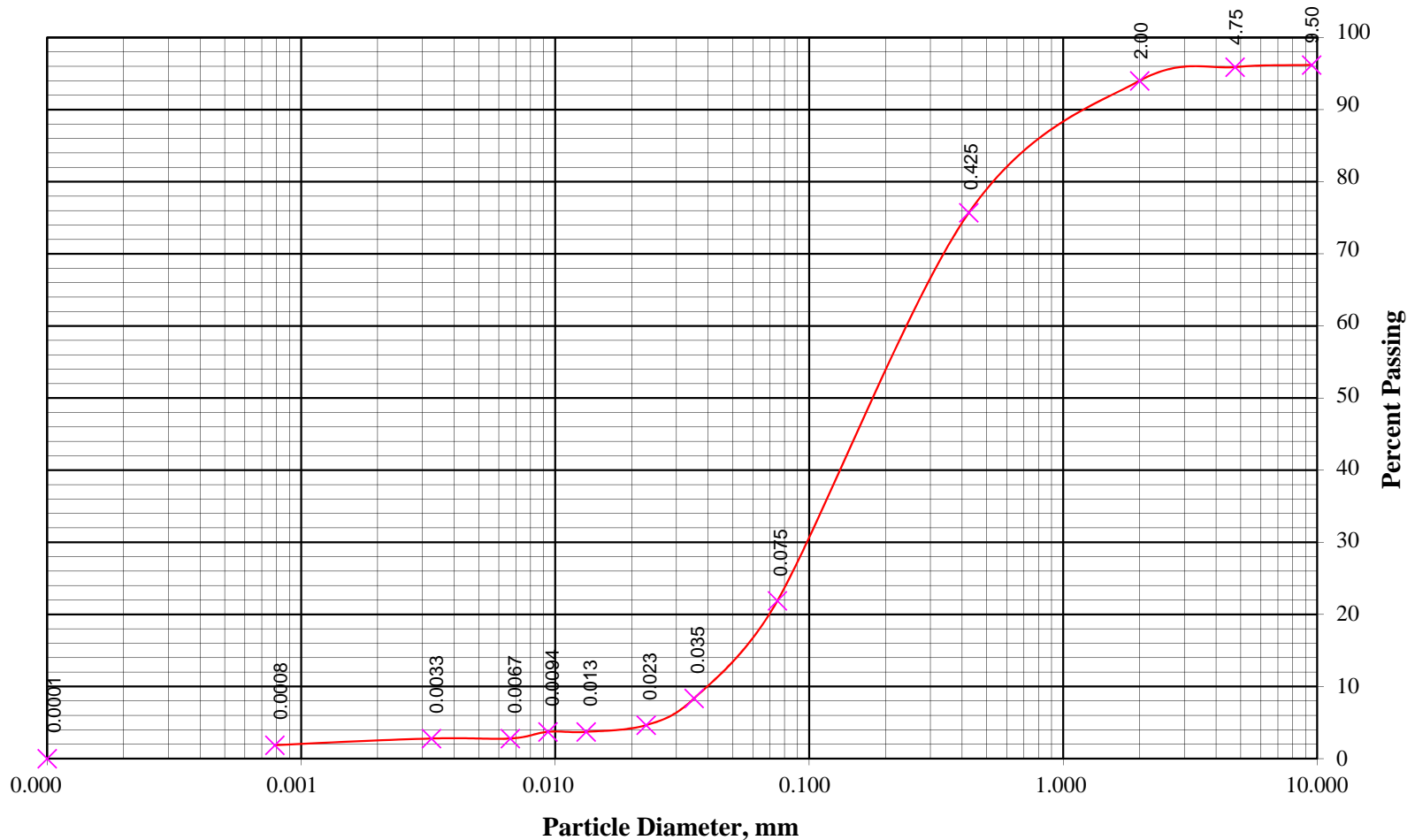
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42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Sand/Topsoil NGS 08-07-12-1	Project Number:	20458
Source:	NGS	Lab Number:	2-0694A
Location:	Stockpile	Item Number:	12323 S.A. Sand/Topsoil
Date Sampled:	8/7/2012	Sampled By:	Client
Date Tested:	8/10/2012-08/13/2012	Tested By:	John Brinsfield



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42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Material:	Sand/Topsoil NGS-08-07-12-1	Project Number:	120458
Source:	NGS	Lab Number:	12-0694A
Location:	Stockpile	Item Number:	312323 5.A Sand/Topsoil
Date Sampled:	8/7/2012	Sampled By:	Client
Date Tested:	8/9/2012	Tested By:	John Brinsfield

Report of Organic Content of Soils by Loss on Ignition

Test Method: ASTM D2974 Method C

Inorganic Content: 98.8 % (Sand, silt, clay, etc.)
Organic Content: 1.2 %

Specification: 1.0-4.0

Comments:

Test results comply with specifications.

Emily J. Rodriguez

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42 Day Farm Road, West Stockbridge, MA 01266

1813 State Route 7, Harpursville, NY 13787

Client:	Services Inc.	Project:	Silver Lake Removal Action
Material:	Sand/Topsoil NGS-08-07-12-1	Project Number:	120458
Source:	NGS	Lab Number:	12-0694A
Location:	Stockpile	Item Number:	312323 5.A Sand/Topsoil
Date Sampled:	8/7/2012	Sampled By:	Client
Date Tested:	8/9/2012	Tested By:	John Brinsfield

Report of pH of Soil

Test Method: ASTM D4972 Method A

pH Test Result: 6.7 (in Distilled Water)

N/A (In Calcium Chloride Solution)

Specification 5.0-7.0

Comments:

Test results comply with specifications.

Emily J. Rodriguez

Report Reviewed By: _____

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	Sand/Topsoil NGS-08-07-12-1	Project Number:	120458
Source:	NGS	Lab Number:	12-0694A
Date Sampled:	8/7/2012	Sampled By:	Client
Date Tested:	8/9/2012	Tested By:	Mark Greenstein

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0694A	Sand/Topsoil NGS-08-07-12-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	1.8	98.2	
12.5 mm	1/2"	0.7	97.5	
6.3 mm	1/4"	1.6	95.9	
4.75 mm	#4	0.0	95.9	
2.00 mm	#10	1.9	94.0	
0.850 mm	#20	5.9	88.1	
0.600 mm	#30	5.1	83.0	
0.425 mm	#40	7.3	75.7	
0.150 mm	#100	32.1	43.6	
0.075 mm	#200	21.7	21.9	
Pan		21.9		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

PDF

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE <i>(Read instructions on reverse side prior to initiating this form)</i>	DATE 8/14/12	Submittal No. 0007
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SECTION I – REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS

TO: Construction Manager ATTN: Mark Gravelding, P.E. ARCADIS 6723 Towpath Road Syracuse, NY 13214 Email: mark.gravelding@arcadis-us.com	FROM: Severson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305	General Electric Company Purchase Order Number:	CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO: (Cover only one section with each transmittal) 312323		PROJECT TITLE AND LOCATION: Silver Lake Removal Action Area Pittsfield, MA 01201	CHECK ONE: THIS TRANSMITTAL IS FOR <input checked="" type="checkbox"/> FIO <input type="checkbox"/> APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. (See instruction No. 8)	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION (See Instruction No. 6)	FOR CEUSE CODE
				SPEC. PARA NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
16	Geotextile fabric-Manufacturer's installation procedures and specifications			313219 (Part 1.04)	26			
18	Lot and roll identification numbers for field delivered material			313219 (Part 1.04)	26			
20	Contractor's proposed transportation, handling, storage and installation techniques			313219 (Part 1.04)	26			

REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE) Michael W. Muth - Project Manager
	NAME AND SIGNATURE OF CONTRACTOR

SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF AUTHORITY	APPROVING <input checked="" type="checkbox"/> REVIEWED & NOTED <input type="checkbox"/> REVISE & RESUBMIT <input type="checkbox"/> For information only <input type="checkbox"/> Received, no action taken	DATE

ENG FORM 4025-R, MAR 95 415-1-10) (ER EDITION OF SEP 93 IS OBSOLETE SHEET 1 OF 1 (PROPONENT: CEMP-CE)

Reviewed solely for general conformance with contract documents

ARCADIS of New York, Inc.

Signature:  Date: 8/17/12

Noted:

1. Please provide information on proposed method of pinning the geotextile to the shoreline.
2. Upon delivery of the geotextile to the Site, SES shall provide written certification that the geotextile has not been damaged due to improper transportation, handling, or storage.
3. Prior to placement, SES shall confirm that the ground surface over which the geotextile will be placed is acceptable for approval by GE's representative.
4. To the extent practicable, the bank soil areas shall be backfilled prior to placing cap material in near shore areas.



Silver Lake Removal Action Area
Sevenson Environmental Services, Inc.
Pittsfield, Massachusetts

Geotextile Fabric Storage, Transportation, Handling and Placement Methods

Storage- Sevenson will store all geotextile fabric at staging area at 100 East Street location next to building 64. All fabric rolls are concealed with manufacturer shrink wrap to withstand weather damage.

Transportation and Handling Techniques- Sevenson will utilize a Komatsu WA 380 Front Loader to transport fabric from the staging area at 1000 East Street to the proposed haul road/staging area locations along Silver Lake Blvd., Fourth Street, East Street and the building 65 containment area. The Komatsu WA 380 Front Loader has been registered for on-road usage and has been designated the proper license plates for such tasks.

Placement/Installation Methods- Sevenson will utilize the Carthage Mills Installation Guidelines to install all geotextile fabric. Sevenson will prepare subgrade with bull dozer and excavator to grub/level tree stumps, large stones and sharp objects. Sevenson will then overlap the geotextile fabric utilizing the recommended 1.5' overlapping technique on Table 1 of Carthage Mills Installation Guidelines. "It is assumed that two laborers will place FX® separation/stabilization geotextiles. The fabric should be rolled out onto the subgrade beginning at a point that allows easy access for construction equipment yet is consistent with the layout plan. On very soft subgrades the fabric layout and aggregate placement should begin on firm soil on the site perimeter, to establish an "anchor point." From there the fabric can be rolled onto softer sections. The geotextile should not be dragged across the subgrade. The geotextile is usually laid in the direction of construction traffic; however, specific project dimensions may alter this layout. Geotextile panels should be overlapped both side-to-side and end-to end, in the direction of aggregate placement." Soil fill and crushed stone will be used for haul roads and/or staging pads Lift thickness will be no less than 6" to avoid rutting. Finally, utilizing the D39 dozer, Sevenson will compact the newly placed aggregate by "walking" the tracked bull dozer back and forth over the aggregate.



To: Severson

Product: FX-55

Project: Silver Lake Capping, Pittsfield MA

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Certificate of Analysis

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Roll No	MD Grab Tensile (lbs) ASTM D4632	CD Grab Tensile (lbs) ASTM D4632	MD Elongation (%) ASTM D4632	MD Elongation (%) ASTM D4632	MD Trap Tear (lbs) ASTM D4533	CD Trap Tear (lbs) ASTM D4533	CBR Puncture (lbs) ASTM D6241	Permittivity (sec-1) ASTM D4491	Water Flow Rate (gal/min-ft2) D4491	AOS US Sieve ASTM D4751
ì Cǎ í GǎFFA	G FÁ	G €Á	G€Á	Fí Á	ì €Á	F€í Á	ì Hí Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ í GǎGFA	G FÁ	G €Á	G€Á	Fí Á	ì €Á	F€í Á	ì Hí Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ í GǎHFA	G FÁ	G €Á	G€Á	Fí Á	ì €Á	F€í Á	ì Hí Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ í GǎFFA	G FÁ	G €Á	G€Á	Fí Á	ì €Á	F€í Á	ì Hí Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ í GǎGFA	G FÁ	G €Á	G€Á	Fí Á	ì €Á	F€í Á	ì Hí Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ í GǎHFA	G FÁ	G €Á	G€Á	Fí Á	ì €Á	F€í Á	ì Hí Á	€€ì Á	î ËÁ	ì €Á
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ì Cǎ í í FFFA	G í Á	G JÁ	GFÁ	Fí Á	ì í Á	F€í Á	ì Fí Á	€€ì Á	î ËÁ	ì €Á
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ì Cǎ €GJGFA	G í Á	GGHÁ	GFÁ	Fí Á	ì í Á	JJÁ	ì J€Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ €GJHFA	G í Á	GGHÁ	GFÁ	Fí Á	ì í Á	JJÁ	ì J€Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ €í FFFA	G í Á	GGHÁ	GFÁ	Fí Á	ì í Á	JJÁ	ì J€Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ €í FGFA	G í Á	GGHÁ	GFÁ	Fí Á	ì í Á	JJÁ	ì J€Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ €í FHFA	G í Á	GGHÁ	GFÁ	Fí Á	ì í Á	JJÁ	ì J€Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ €í í FFA	G í Á	GGHÁ	GFÁ	Fí Á	ì í Á	JJÁ	ì J€Á	€€ì Á	î ËÁ	ì €Á
ì Cǎ €í í GFA	G í Á	GGHÁ	GFÁ	Fí Á	ì í Á	JJÁ	ì J€Á	€€ì Á	î ËÁ	ì €Á
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Project: Silver Lake Capping, Pittsfield MA

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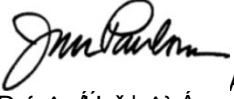
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Finished Roll Number	Date Tested	MD Grab Tensile ASTM D4632 (lbs)	CD Grab Tensile ASTM D4632 (lbs)	MD Grab Elongation ASTM D4632 (%)	CD Grab Elongation ASTM D4632 (%)	MD Trap Tear ASTM D4533 (lbs)	CD Trap Tear ASTM D4533 (lbs)	CBR Puncture ASTM D6241 (lbs)	AOS ASTM D4751 (U.S. sieve)	Water Flow Rate ASTM D4491 gpm/ft2	Permit tivity ASTM D4491 (sec-1)
1000000000	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000001	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000002	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000003	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000004	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000005	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000006	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000007	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000008	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000009	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000010	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000011	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000012	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000013	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000014	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000015	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000016	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000017	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000018	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000019	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000020	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000021	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000022	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000023	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000024	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000025	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000026	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000027	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000028	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000029	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000030	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000031	10/10/2020	1000	1000	100	100	100	100	100	100	100	100
1000000032	10/10/2020	1000	1000	100	100	100	100	100			

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Finished Roll Number	Date Tested	MD Grab Tensile ASTM D4632	CD Grab Tensile ASTM D4632	MD Grab Elongation ASTM D4632	CD Grab Elongation ASTM D4632	MD Trap Tear ASTM D4533	CD Trap Tear ASTM D4533	CBR Puncture ASTM D6241	AOS ASTM D4751	Water Flow Rate ASTM D4491	Permit tivity ASTM D4491
		(lbs)	(lbs)	(%)	(%)	(lbs)	(lbs)	(lbs)	(U.S. sieve)	gpm/ft2	(sec-1)
100111FÁ	100111FÁ	G HÁ	G I Á	I I Á	I HÁ	JHÁ	J I Á	I I GÁ	F E Á	F I GÁ	G GÁ
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■ Separation/Stabilization Geotextile Fabrics

INTRODUCTION

Carthage Mills' FX[®] Line of geotextiles can enhance the performance of paved and unpaved roadways, parking lots, airports, loading docks, and storage areas through separation/stabilization of the roadway structure. The geotextiles provide three important functions: separation/stabilization, drainage, and reinforcement. The fabric serves as a permeable separation/stabilization layer, preventing the aggregate and subgrade soils from intermixing while allowing the passage of water. The geotextile also enhances the structural properties of the subgrade and the roadway aggregate to minimize the cost of the road structure.

The successful use of geotextiles in these applications requires proper installation. The four basic steps of proper installation include:

- Á Subgrade preparationÁ
- Á Geotextile placementÁ
- Á Aggregate placementÁ
- Á Aggregate compactionÁ

Carthage Mills' FX[®] stabilization geotextiles can be used in most weather and temperature conditions.

Adequate planning and preparation for each installation step will speed construction and ensure good performance.

These guidelines provide recommendations for installation of geotextiles in separation/stabilization applications.

The guidelines are intended to assist the contractor responsible for installation of the specified geotextile.

They are to be considered general guidelines, appropriate for common construction conditions. Specific site conditions, design requirements, or other variables may require modification to these guidelines.

SUBGRADE PREPARATION

Initially, the site should be cleared of tree stumps, large stones, and other sharp objects that could puncture the fabric. This step should be performed regardless of subgrade strength.

Roadway subgrade preparation typically involves removal of all vegetation, roots, and topsoil. Localized soft or otherwise unsuitable subgrade areas may be required to be excavated and backfilled with select material. In some very soft soil applications, it is beneficial to leave vegetation, roots, and topsoil in place to limit subgrade soil disturbance and loss of strength.

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GEOTEXTILE PLACEMENT

Two people can easily place FX[®] separation/stabilization geotextiles. The fabric should be rolled out onto the subgrade beginning at a point that allows easy access for construction equipment yet is consistent with the layout plan. On very soft subgrades (CBR<1) the fabric layout and aggregate placement should begin on firm soil on the site perimeter, to establish an "anchor point." From there the fabric can be rolled onto softer sections. The geotextile should not be dragged across the subgrade. The geotextile is usually laid in the direction of construction traffic; however, specific project dimensions may alter this layout. Geotextile panels should be overlapped both side-to-side and end-to-end, in the direction of aggregate placement. The recommended overlap ranges from 1.5 to 3 feet, depending on subgrade strength. Overlap recommendations are provided in Table 1.

Table 1. Recommended Geotextile Overlaps

Subgrade CBR Value	Subgrade R-Value (California)	Subgrade Shear Strength (lb/in ²)	Field Estimation of CBR	Recommended Minimum Overlap
< 0.5	_____	< 2	_____	Sewn seam required
> 0.5 to 1	_____	> 2 to 4.5	A person can easily walk on the site	3 ft.
> 1 to 2	> 0 to 10	> 4.5 to 8.5	A low ground pressure bulldozer can access the site without significant rutting	2.5 ft.
> 2	> 10	> 8.5	A D4 bulldozer can access the site without significant rutting	1.5 ft.

Alternatively, adjacent fabric edges can be sewn together rather than overlapped. Sewn seams must be used when the geotextile provides significant tensile reinforcement. This is the case, for example, when the subgrade is very soft (CBR<0.5). Sewn seam strength and fabric orientation are important design parameters. In these critical applications, adjacent panels must be placed and sewn in accordance with the specifications provided by the design engineer. Field sewing is performed using a portable sewing machine and typically requires three or four laborers. Pre-sewn panels can be supplied from the factory.

Soil, rocks, or pins can be used to hold fabric edges and overlaps down until aggregate is placed. On curves, the geotextile may be folded or cut to conform to the curve, as shown in Figure 1. The fold or overlap should be in the direction of construction and can be held in place as described above.

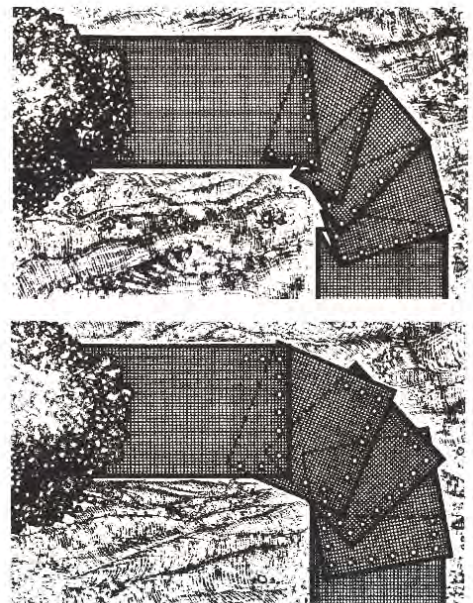


Figure 1: TOP, forming a curve using folds.
BOTTOM, forming a curve using cut pieces

AGGREGATE PLACEMENT

Aggregate is placed and spread on the fabric using conventional construction practices and equipment. Soil, rocks, or pins should be used to anchor the leading edge of the fabric to prevent it from lifting during placement of the first aggregate lift. The aggregate is typically back-dumped onto the geotextile, as the truck should not drive directly on the fabric. The aggregate is then spread over the geotextile. A tracked bulldozer is best used for this operation. Low ground pressure models are recommended for work on soft subgrades.

Lift thickness should not be less than 6 inches. The first lift should be as thick as necessary to limit rutting to less than 4 inches. During spreading, the bulldozer should blade into the load and slightly upward to prevent stressing the fabric. This procedure should be followed for each load until the fabric is completely covered. The dozer operator can determine which areas may need additional aggregate for good stability by observing aggregate layer rutting.

On very soft subgrades, care should be taken during aggregate placement to ensure that the fabric is not moved out of position nor the subgrade overstressed. Over some very soft soil conditions, "mud waves" may appear during or subsequent to aggregate placement. Mud waves result from overstressing the subgrade during fill placement, causing the subsurface soil to move away and up from the loaded area. They are normally not a problem if they do not heave above the surface of the aggregate base. If severe mud waves are anticipated, a Carthage Mills representative can provide information on construction procedures to minimize their adverse effects.

Sudden stops or turns by equipment operating over the geotextile should be avoided. Under typical conditions, vehicles should not be allowed to drive directly on the geotextile. If space constraints make this impractical, the possible damage from direct vehicle contact should be evaluated on a test section of the geotextile. If the fabric is damaged such that it cannot fulfill project requirements, a more damage-resistant geotextile should be specified. If the fabric is damaged during installation, the damaged section should be exposed and a patch of fabric placed over it. The patch should be large enough to overlap onto undamaged areas as recommended in Table 1. The aggregate is then replaced and compacted.

AGGREGATE COMPACTION

The aggregate must be compacted as required by the project specifications. The aggregate should be initially compacted by "walking" the tracked bulldozer back and forth over the aggregate while waiting for the next aggregate load. Construction traffic will then compact the aggregate until reasonable stability is obtained. Final compaction is achieved by rolling the area with a vibratory compactor, first without vibration for several passes and then with full vibration. Any weak areas found during final compaction usually indicate inadequate aggregate thickness in those locations. Do not grade ruts down; simply fill with additional aggregate and compact to the specified density. This also applies to any future rut maintenance that might be required.

CONSTRUCTION MONITORING


It is important that the construction conditions and process be monitored. If the actual subgrade has lower strength than that assumed for design, the structural section design thicknesses must be re-evaluated. Observation of rutting of the aggregate layer, for example, can pinpoint weak subgrade areas, allowing design adjustments to be made on site if necessary. One advantage of an unpaved road is the ability to identify and resurface weak areas to avoid overdesigning the entire road. Aggregate base placed for a new pavement may also be monitored for weak areas and corrected before the pavement layer(s) is placed.

Submittal 0007 - Supplemental information on geotextile pinning and on-site delivery conditions

<input checked="checked" type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken

Reviewed solely for general conformance with contract documents

ARCADIS of New York, Inc.


Signature

9/19/12
Date



Silver Lake Removal Action Area
General Electric Company
Pittsfield, Massachusetts

Geotextile Pinning Method

Woven and non-woven geotextile fabric shall be pinned to the shoreline with 8 gauge 12" long steel sod staples. The staples will be spaced as necessary parallel to the shoreline. Staple spacing may be 1 foot to 10 feet depending on stability of the soil.





Silver Lake Removal Action Area
General Electric Company
Pittsfield, Massachusetts


Woven and non-woven geotextile fabric has not been damaged or destroyed upon delivery due to improper transportation, handling or storage.

Sevenson Environmental Services Quality Assurance/Quality Control Officer.

Dominic Massaro

[illegible]

REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.	
		Name (TITLE) Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE	
ENG FORM 4025-R, MAR 95 415-1-10)	(ER EDITION OF SEP 93 IS OBSOLETE SHEET __1__ OF __1__	(PROPONENT: CEMP-CE)	

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents ARCADIS of New York, Inc.  Signature	
9/14/12 Date	

Note: Although some samples collected from Pits 6, 7, 8, and 9 are coarser than the material specified in the Technical Specifications, this material meets the intent of the specification and is acceptable for use on site as Soil Fill.



3348 Route 208, Campbell Hall, NY 10916
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25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-6A	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736A
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736A	PHP-08-20-12-6A	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	4.3	95.7	
25.0 mm	1"	2.6	93.1	
19.0 mm	3/4"	1.6	91.5	
12.5 mm	1/2"	2.9	88.6	
6.3 mm	1/4"	4.2	84.4	
4.75 mm	#4	2.0	82.4	
2.00 mm	#10	4.1	78.3	
0.850 mm	#20	6.0	72.3	
0.600 mm	#30	3.8	68.5	
0.425 mm	#40	5.3	63.2	
0.150 mm	#100	30.7	32.5	
0.075 mm	#200	19.6	12.9	
Pan		12.9		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-6B	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736B
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736B	PHP-08-20-12-6B	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	2.7	97.3	
19.0 mm	3/4"	6.5	90.8	
12.5 mm	1/2"	7.3	83.5	
6.3 mm	1/4"	9.1	74.4	
4.75 mm	#4	3.7	70.7	
2.00 mm	#10	8.2	62.5	
0.850 mm	#20	11.0	51.5	
0.600 mm	#30	6.3	45.2	
0.425 mm	#40	6.9	38.3	
0.150 mm	#100	24.2	14.1	
0.075 mm	#200	9.5	4.6	
Pan		4.6		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-6C	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-0736C
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736C	PHP-08-20-12-6C	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	2.9	97.1	
12.5 mm	1/2"	2.2	94.9	
6.3 mm	1/4"	2.6	92.3	
4.75 mm	#4	1.3	91.0	
2.00 mm	#10	3.4	87.6	
0.850 mm	#20	4.5	83.1	
0.600 mm	#30	2.6	80.5	
0.425 mm	#40	3.8	76.7	
0.150 mm	#100	40.1	36.6	
0.075 mm	#200	25.5	11.1	
Pan		11.1		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-7A	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736D
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736D	PHP-08-20-12-7A	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	3.8	96.2	
12.5 mm	1/2"	6.7	89.5	
6.3 mm	1/4"	9.3	80.2	
4.75 mm	#4	3.0	77.2	
2.00 mm	#10	12.3	64.9	
0.850 mm	#20	13.0	51.9	
0.600 mm	#30	5.6	46.3	
0.425 mm	#40	5.5	40.8	
0.150 mm	#100	18.2	22.6	
0.075 mm	#200	10.5	12.1	
Pan		12.1		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-7B	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736E
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/30/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736E	PHP-08-20-12-7B	Stockpile	312417 2.1D Barrier Protection Silty Sand

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	4.8	95.2	100
19.0 mm	3/4"	2.3	92.9	
12.5 mm	1/2"	4.3	88.6	
6.3 mm	1/4"	7.9	80.7	
4.75 mm	#4	2.4	78.3	
2.00 mm	#10	7.7	70.6	
0.850 mm	#20	10.5	60.1	
0.600 mm	#30	5.7	54.4	
0.425 mm	#40	6.4	48.0	
0.150 mm	#100	24.9	23.1	
0.075 mm	#200	12.9	10.2	
Pan		10.2		

Comments: **Test results do not comply with specification**
Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-7C	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736F
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736F	PHP-08-20-12-7C	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	4.7	95.3	
19.0 mm	3/4"	2.9	92.4	
12.5 mm	1/2"	4.7	87.7	
6.3 mm	1/4"	6.4	81.3	
4.75 mm	#4	2.8	78.5	
2.00 mm	#10	8.9	69.6	
0.850 mm	#20	12.4	57.2	
0.600 mm	#30	6.5	50.7	
0.425 mm	#40	6.9	43.8	
0.150 mm	#100	23.1	20.7	
0.075 mm	#200	11.1	9.6	
Pan		9.6		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-8A	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736G
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736G	PHP-08-20-12-8A	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	3.2	96.8	
19.0 mm	3/4"	2.5	94.3	
12.5 mm	1/2"	5.7	88.6	
6.3 mm	1/4"	9.8	78.8	
4.75 mm	#4	2.5	76.3	
2.00 mm	#10	11.2	65.1	
0.850 mm	#20	15.5	49.6	
0.600 mm	#30	7.6	42.0	
0.425 mm	#40	7.1	34.9	
0.150 mm	#100	20.1	14.8	
0.075 mm	#200	7.7	7.1	
Pan		7.1		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-8B	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736H
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736H	PHP-08-20-12-8B	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	4.9	95.1	
19.0 mm	3/4"	4.9	90.2	
12.5 mm	1/2"	2.4	87.8	
6.3 mm	1/4"	5.5	82.3	
4.75 mm	#4	0.9	81.4	
2.00 mm	#10	5.6	75.8	
0.850 mm	#20	15.8	60.0	
0.600 mm	#30	10.5	49.5	
0.425 mm	#40	10.0	39.5	
0.150 mm	#100	19.2	20.3	
0.075 mm	#200	4.0	16.3	
Pan		16.3		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-8C	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736I
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736I	PHP-08-20-12-8C	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	3.2	96.8	
19.0 mm	3/4"	2.4	94.4	
12.5 mm	1/2"	5.6	88.8	
6.3 mm	1/4"	7.9	80.9	
4.75 mm	#4	2.9	78.0	
2.00 mm	#10	10.5	67.5	
0.850 mm	#20	17.0	50.5	
0.600 mm	#30	9.3	41.2	
0.425 mm	#40	8.5	32.7	
0.150 mm	#100	19.6	13.1	
0.075 mm	#200	6.9	6.2	
Pan		6.2		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-9A	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736J
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736J	PHP-08-20-12-9A	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	3.5	96.5	
25.0 mm	1"	1.1	95.4	
19.0 mm	3/4"	0.7	94.7	
12.5 mm	1/2"	3.1	91.6	
6.3 mm	1/4"	4.5	87.1	
4.75 mm	#4	2.7	84.4	
2.00 mm	#10	11.7	72.7	
0.850 mm	#20	23.2	49.5	
0.600 mm	#30	13.3	36.2	
0.425 mm	#40	12.4	23.8	
0.150 mm	#100	19.7	4.1	
0.075 mm	#200	2.2	1.9	
Pan		1.9		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-9B	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736K
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736K	PHP-08-20-12-9B	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.3	99.7	
12.5 mm	1/2"	1.5	98.2	
6.3 mm	1/4"	2.7	95.5	
4.75 mm	#4	2.0	93.5	
2.00 mm	#10	8.0	85.5	
0.850 mm	#20	19.2	66.3	
0.600 mm	#30	13.2	53.1	
0.425 mm	#40	14.8	38.3	
0.150 mm	#100	34.9	3.4	
0.075 mm	#200	1.9	1.5	
Pan		1.5		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-08-20-12-9C	Project Number:	120458
Source:	Pettrica Hinsdale Pit	Lab Number:	12-0736L
Date Sampled:	8/20/2012	Sampled By:	Client
Date Tested:	8/28/2012	Tested By:	Liam Foody

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0736L	PHP-08-20-12-9C	Stockpile	B0040152 2.01A.2 Granular Cap

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	5.2	94.8	
25.0 mm	1"	0.0	94.8	
19.0 mm	3/4"	0.4	94.4	
12.5 mm	1/2"	1.3	93.1	
6.3 mm	1/4"	1.1	92.0	
4.75 mm	#4	0.5	91.5	
2.00 mm	#10	2.1	89.4	
0.850 mm	#20	5.0	84.4	
0.600 mm	#30	4.3	80.1	
0.425 mm	#40	6.9	73.2	
0.150 mm	#100	41.6	31.6	
0.075 mm	#200	22.3	9.3	
Pan		9.3		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
	Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION		
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

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(PROPONENT: CEMP-CE)

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG - GCM - 1 Granular Cap Matl.	Project Number:	120458
Source:	Nichols Sand & Gravel	Lab Number:	12-0780
Date Sampled:	8/31/2012	Sampled By:	Client
Date Tested:	9/10/2012-09/11/2012	Tested By:	Maxwell Nicols

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	89.0	
#4	4.75	83.8	
#10	2.00	76.9	
#40	0.425	59.0	
#200	0.075	28.4	
Hydrometer Analysis Results	0.050	21.9	
	0.020	13.2	
	0.010	7.9	
	0.005	6.8	
	0.002	5.1	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	23.1%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	71.5%
Silt	(0.05 mm to 0.002 mm)	21.8%
Clay	(Less than 0.002 mm)	6.6%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Revised 9/19/12. Source Corrected.

Emily J. Rodriguez

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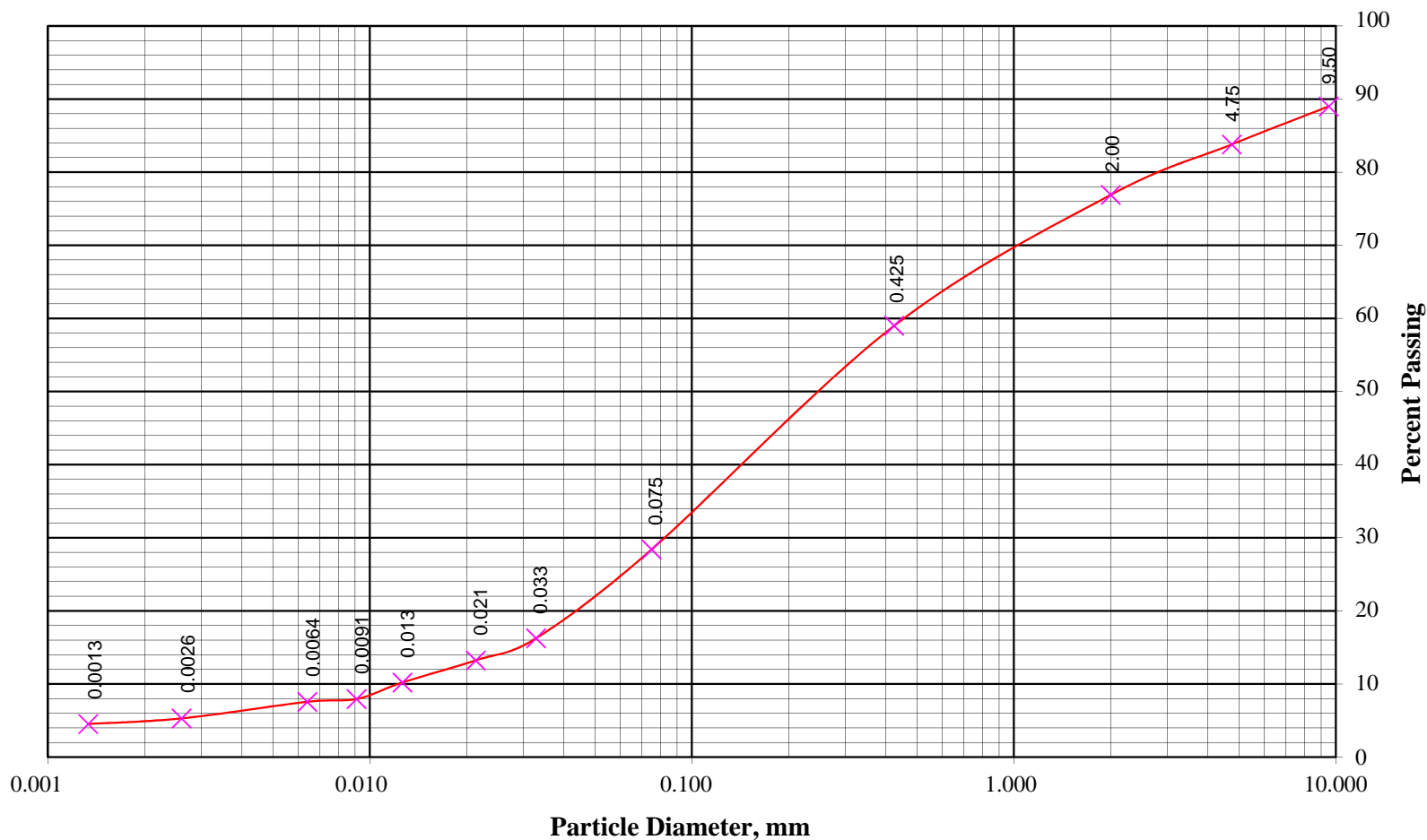
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG - GCM - 1 Granular Cap Material	Project Number:	20458
Source:	Nichols Sand & Gravel	Lab Number:	2-0780
Date Sampled:	8/31/2012	Sampled By:	Client
Date Tested:	9/10/2012-09/11/2012	Tested By:	Maxwell Nicols



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Revised 9/19/12. Source Corrected.

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	Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR

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ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-08-23-1	Project Number:	120458
Source:	NGS	Lab Number:	12-0751A
Date Sampled:	8/23/2012	Sampled By:	Client
Date Tested:	8/30/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0751A	NGS-08-23-1	Stockpile	Topsoil

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	4.2	95.8	
19.0 mm	3/4"	1.7	94.1	
12.5 mm	1/2"	3.4	90.7	
6.3 mm	1/4"	7.6	83.1	
4.75 mm	#4	3.5	79.6	
2.00 mm	#10	10.2	69.4	
0.850 mm	#20	11.2	58.2	
0.600 mm	#30	4.6	53.6	
0.425 mm	#40	4.4	49.2	
0.150 mm	#100	15.0	34.2	
0.075 mm	#200	10.6	23.6	
Pan		23.6		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-08-23-2	Project Number:	120458
Source:	NGS	Lab Number:	12-0751B
Date Sampled:	8/23/2012	Sampled By:	Client
Date Tested:	8/30/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0751B	NGS-08-23-2	Stockpile	Topsoil

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.9	99.1	
19.0 mm	3/4"	4.6	94.5	
12.5 mm	1/2"	4.3	90.2	
6.3 mm	1/4"	7.5	82.7	
4.75 mm	#4	3.0	79.7	
2.00 mm	#10	11.8	67.9	
0.850 mm	#20	14.0	53.9	
0.600 mm	#30	5.1	48.8	
0.425 mm	#40	5.7	43.1	
0.150 mm	#100	14.4	28.7	
0.075 mm	#200	9.4	19.3	
Pan		19.3		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-08-23-3	Project Number:	120458
Source:	NGS	Lab Number:	12-0751C
Date Sampled:	8/23/2012	Sampled By:	Client
Date Tested:	8/30/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0751C	NGS-08-23-3	Stockpile	Topsoil

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	7.5	92.5	
37.5 mm	1 1/2"	0.0	92.5	
25.0 mm	1"	3.8	88.7	
19.0 mm	3/4"	2.2	86.5	
12.5 mm	1/2"	3.4	83.1	
6.3 mm	1/4"	6.1	77.0	
4.75 mm	#4	2.8	74.2	
2.00 mm	#10	11.1	63.1	
0.850 mm	#20	12.0	51.1	
0.600 mm	#30	4.6	46.5	
0.425 mm	#40	4.1	42.4	
0.150 mm	#100	12.6	29.8	
0.075 mm	#200	9.2	20.6	
Pan		20.6		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-08-23-4	Project Number:	120458
Source:	NGS	Lab Number:	12-0751D
Date Sampled:	8/23/2012	Sampled By:	Client
Date Tested:	8/30/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0751D	NGS-08-23-4	Stockpile	Topsoil

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	1.7	98.3	
25.0 mm	1"	2.8	95.5	
19.0 mm	3/4"	1.5	94.0	
12.5 mm	1/2"	5.3	88.7	
6.3 mm	1/4"	6.0	82.7	
4.75 mm	#4	3.2	79.5	
2.00 mm	#10	12.6	66.9	
0.850 mm	#20	15.2	51.7	
0.600 mm	#30	6.4	45.3	
0.425 mm	#40	5.5	39.8	
0.150 mm	#100	14.2	25.6	
0.075 mm	#200	9.1	16.5	
Pan		16.5		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Material:	NGS-08-23-1	Project Number:	120458
Source:	NGS	Lab Number:	12-0823
Location:	Stockpile	Item Number:	Topsoil
Date Sampled:	8/23/2012	Sampled By:	Client
Date Tested:	9/20/2012	Tested By:	John Brinsfield

Report of Organic Content of Soils by Loss on Ignition

Test Method: ASTM D2974 Method C

Inorganic Content: 95.7 % (Sand, silt, clay, etc.)
Organic Content: 4.3 %

Specification: 3.0 to 5.0

Comments:

Test results comply with specifications.

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Client:	Services Inc.	Project:	Silver Lake Removal Action
Material:	NGS-08-23-1	Project Number:	120458
Source:	NGS	Lab Number:	12-0823
Location:	Stockpile	Item Number:	Topsoil
Date Sampled:	8/23/2012	Sampled By:	Client
Date Tested:	9/20/2012	Tested By:	John Brinsfield

Report of pH of Soil

Test Method: ASTM D4972 Method A


pH Test Result: 6.9 (in Distilled Water)

N/A (In Calcium Chloride Solution)

Specification 5.0 to 7.0

Comments:

Test results comply with specifications.


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		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET _1_ OF _1_	(PROPONENT: CEMP-CE)

Noted:

This material has slightly more gravel than recommended by the specification, and is still within the specified ranges for sand and silt/clay. This material is considered acceptable for its intended use.

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ARCADIS of New York, Inc.	
 Signature	10/30/12 Date



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/24/2012-09/24/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	95.0	
#4	4.75	89.3	
#10	2.00	80.9	
#40	0.425	63.9	
#200	0.075	19.4	
Hydrometer Analysis Results	0.050	13.9	
	0.020	6.8	
	0.010	5.2	
	0.005	3.1	
	0.002	1.7	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Brown Sand Subrounded Mix of hard and weak particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	19.1%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	82.8%
Silt	(0.05 mm to 0.002 mm)	15.1%
Clay	(Less than 0.002 mm)	2.1%
Total		100.0%
USDA Soil Textural Class		

Emily J. Rodriguez

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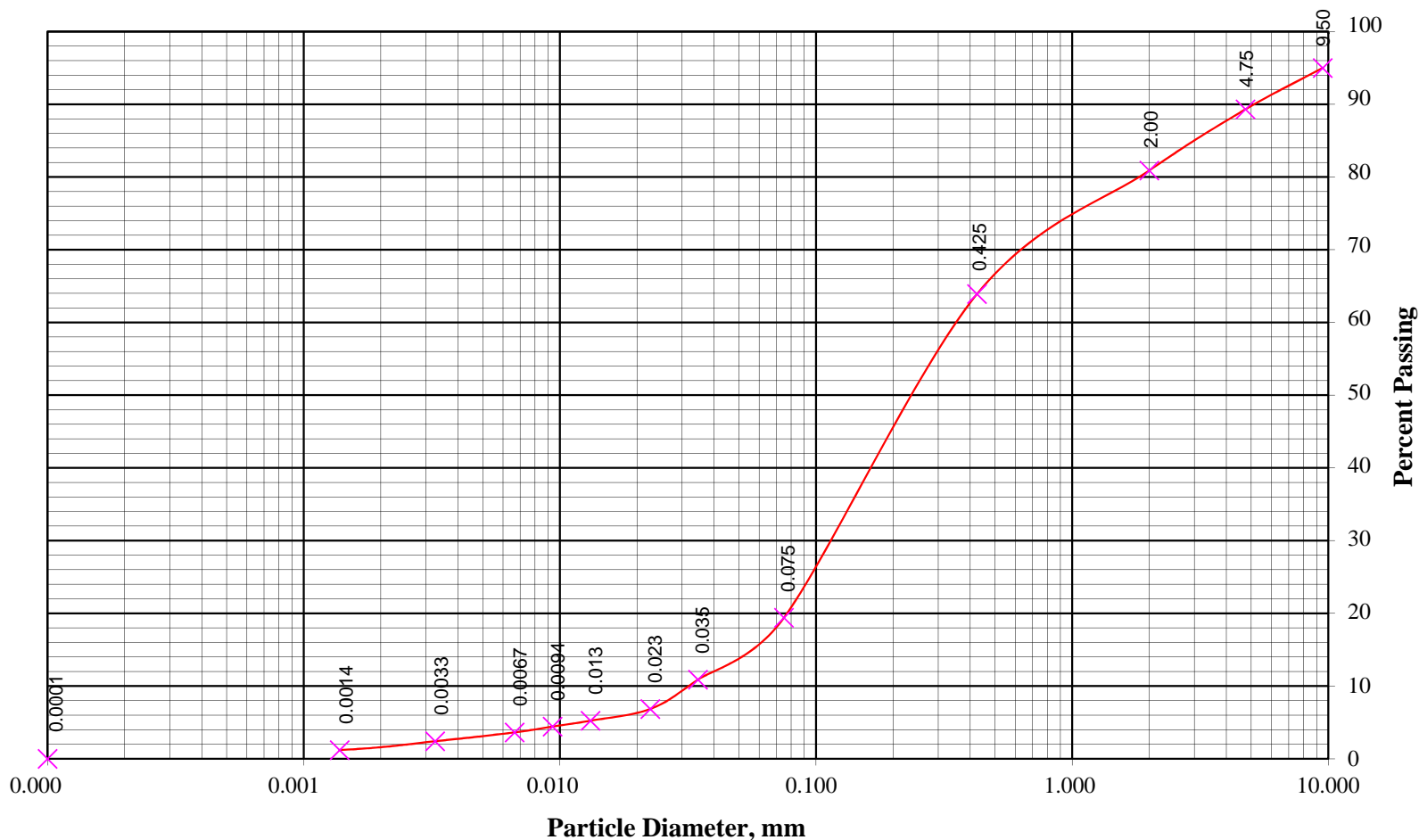
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/24/2012-09/24/2012	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/24/2012-10/24/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	94.0	
#4	4.75	90.7	
#10	2.00	82.7	
#40	0.425	64.1	
#200	0.075	19.5	
Hydrometer Analysis Results	0.050	13.9	
	0.020	7.1	
	0.010	4.8	
	0.005	3.1	
	0.002	1.8	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Brown Sand Subrounded Mix of hard and weak particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	17.3%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	83.2%
Silt	(0.05 mm to 0.002 mm)	14.6%
Clay	(Less than 0.002 mm)	2.2%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Emily J. Rodriguez

REPORT REVIEWED BY: _____

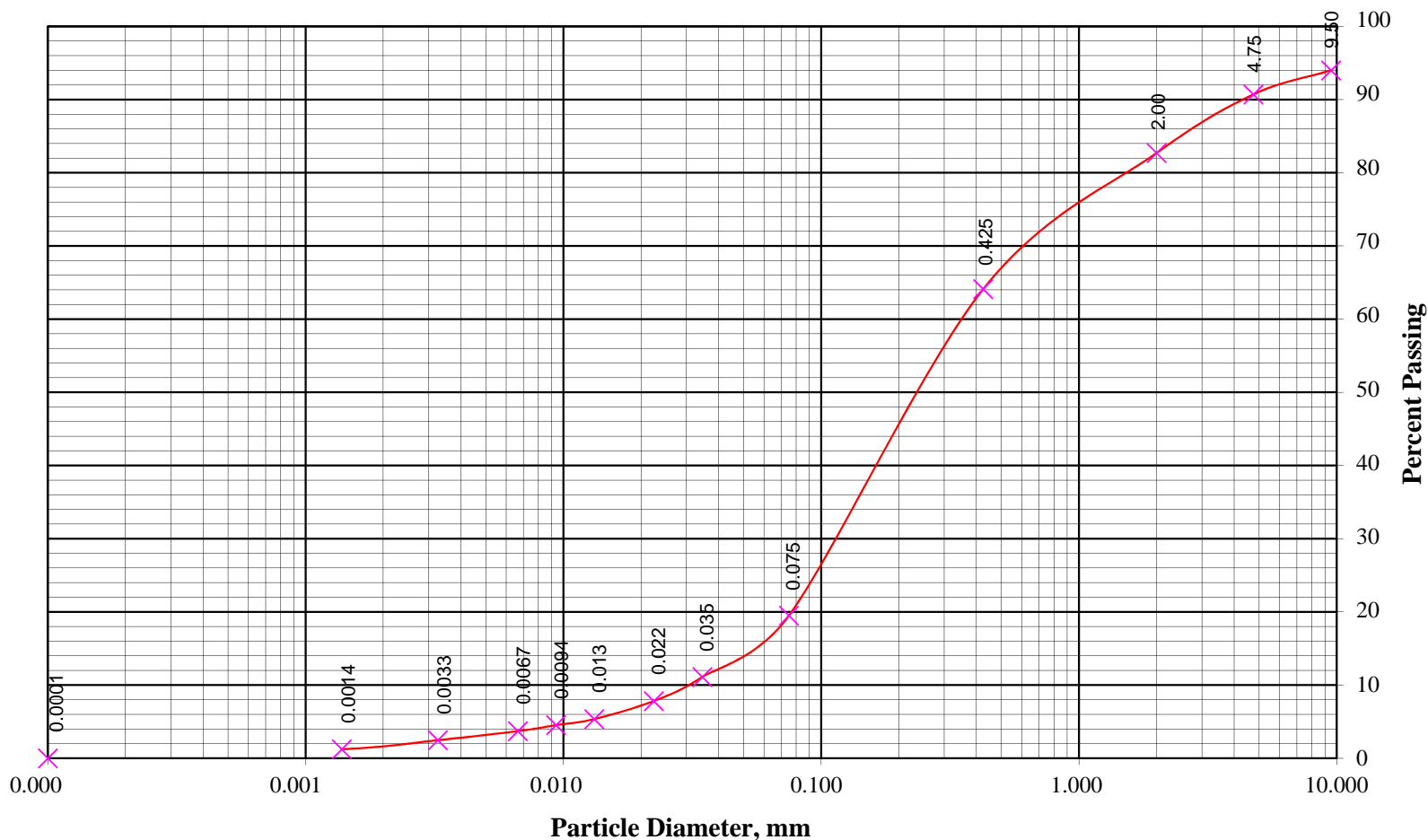
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 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/24/2012-10/24/2012	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924C
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/24/2012-10/24/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	97.0	
#4	4.75	93.3	
#10	2.00	85.3	
#40	0.425	65.9	
#200	0.075	20.0	
Hydrometer Analysis Results	0.050	15.0	
	0.020	8.0	
	0.010	4.7	
	0.005	3.5	
	0.002	1.9	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Brown Sand Subrounded Mix of hard and weak particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	14.7%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	82.4%
Silt	(0.05 mm to 0.002 mm)	15.4%
Clay	(Less than 0.002 mm)	2.2%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Emily J. Rodriguez

REPORT REVIEWED BY: _____

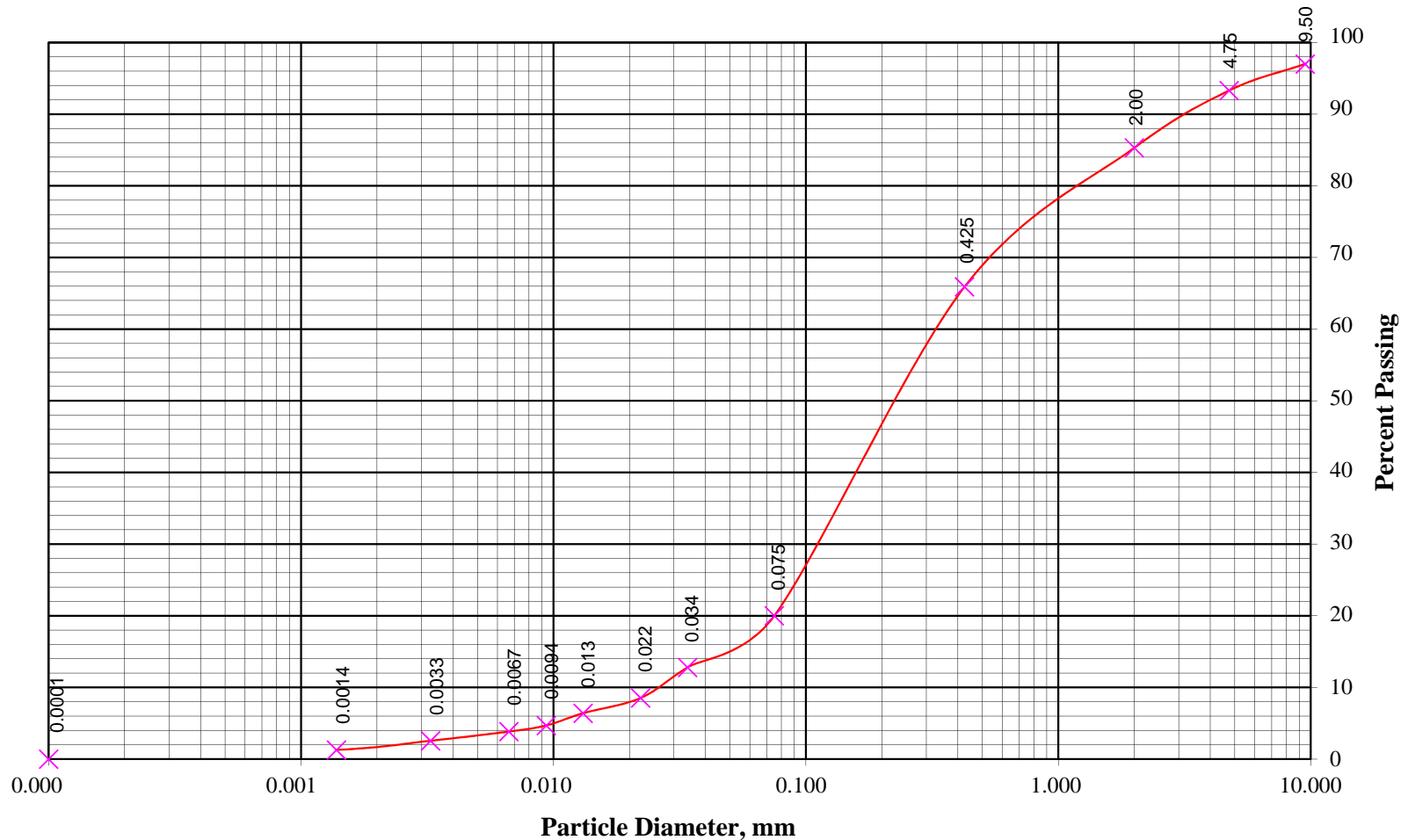
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924C
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/24/2012-10/24/2012	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924A
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/22/2012	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0924A	NSG-ST-10-17-12-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	2.0	98.0	
6.3 mm	1/4"	6.0	92.0	
4.75 mm	#4	2.7	89.3	
2.00 mm	#10	8.4	80.9	
0.850 mm	#20	8.0	72.9	
0.600 mm	#30	3.6	69.3	
0.425 mm	#40	5.4	63.9	
0.150 mm	#100	26.7	37.2	
0.075 mm	#200	17.8	19.4	
Pan		19.4		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924B
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/22/2012	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0924B	NSG-ST-10-17-12-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.2	99.8	
12.5 mm	1/2"	3.1	96.7	
6.3 mm	1/4"	5.6	91.1	
4.75 mm	#4	0.4	90.7	
2.00 mm	#10	8.0	82.7	
0.850 mm	#20	8.9	73.8	
0.600 mm	#30	4.4	69.4	
0.425 mm	#40	5.3	64.1	
0.150 mm	#100	27.6	36.5	
0.075 mm	#200	17.0	19.5	
Pan		19.5		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-ST-10-17-12-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924C
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/22/2012	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0924C	NSG-ST-10-17-12-3	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.6	99.4	
6.3 mm	1/4"	4.3	95.1	
4.75 mm	#4	1.8	93.3	
2.00 mm	#10	8.0	85.3	
0.850 mm	#20	9.3	76.0	
0.600 mm	#30	4.1	71.9	
0.425 mm	#40	6.0	65.9	
0.150 mm	#100	28.3	37.6	
0.075 mm	#200	17.6	20.0	
Pan		20.0		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.	
		Name (TITLE) Michael W. Muth - Project Manager	
NAME AND SIGNATURE OF CONTRACTOR			
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE

ENG FORM 4025-R, MAR 95
415-1-10)

(ER

EDITION OF SEP 93 IS OBSOLETE
SHEET __1__ OF __1__

(PROPONENT: CEMP-CE)

Noted:

- Pins/staples used for installation must be biodegradable
- Packing information shall be provided to ARCADIS on-site personnel upon delivery to the site for installation

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
	10/16/12
Signature	Date



Material and Performance Specification

ECC-2B Double Net Coconut Biodegradable Rolled Erosion Control Product

Description: The ECC-2B is made with uniformly distributed 100% coconut fiber and two organic jute nets securely sewn together with biodegradable thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation.

The ECC-2B has functional longevity of approximately 24 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 1:1 and medium to high flow channels. The ECC-2B meets Type 4 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

Materials:

Netting – Top and Bottom

Organic Leno Weave Jute
100% Biodegradable
0.5" x 1.0" Opening

Matrix

100% Coconut Fiber
0.55 lbs/yd²
298.4 g/m²

Thread

Biodegradable
1.50" stitch spacing

Roll Sizes:

Standard

Width: 7.5 ft (2.3 m)
Length: 120.0 ft (36.6 m)
Weight $\pm 10\%$: 66.0 lbs (29.9 kg)
Area: 100 yd² (83.6 m²)
#/Pallet: 16

Mega

15.0 ft (4.6 m)
120.0 ft (36.6 m)
132.0 lbs (59.9 kg)
200 yd² (167.2 m²)
16

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	11.0 oz/yd ² (373.0 g/m ²)
Thickness	ASTM D6525	.31 in (7.9 mm)
Tensile Strength-MD	ASTM D6818	240 lb/ft (3.5 kN/m)
Elongation-MD	ASTM D6818	10.9 %
Tensile Strength-TD	ASTM D6818	164 lb/ft (2.4 kN/m)
Elongation-TD	ASTM D6818	16.0 %
Light Penetration	ASTM D6567	10 %
Water Absorption	ASTM D1117	225 %
* May differ depending upon raw material variations		

Bench-Scale Testing* (NTPEP***):

Test Method	Parameters	Results
ECTC Method 2 Rainfall	50mm (2in) / hr-30 min	SLR**=14.24
	100mm (4in) / hr-30 min	SLR**=18.58
	150mm (6in) / hr-30 min	SLR**=24.25
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.72 lb/ft ²
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	414% improvement
*Bench scale tests should not be used for design purposes.		
**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor		
***The preceding test data excerpts were reproduced with the permission of AASHTO, however, this does not constitute endorsement or approval of the product, material or device by AASHTO		

Slope Performance Design Values*:

Property	Test Method	Value	
Manning's N		0.025	
C-Factors	ASTM D6459		
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1
< 50 ft (15 m)	0.040	0.053	0.102
50 ft – 100 ft	0.060	0.084	0.120
>100 ft (30 m)	0.094	0.114	0.134
*Large-Scale Results obtained by 3 rd Party GAI Accredited Independent Laboratory			

Channel Performance Design Values*:

Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	2.25 lbs/ft ² (108 Pa)
Unvegetated Velocity	ASTM D 6460	9.0 ft/s (2.7 m/s)
Vegetated Shear Stress	NA	NA
Vegetated Velocity	NA	NA
*Large-Scale Results obtained by 3 rd Party GAI Accredited Independent Laboratory		

Proud Member of:



Product Participant of:

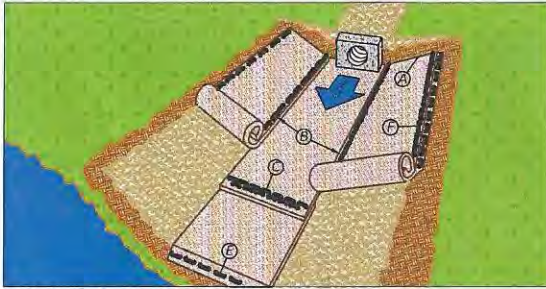


and



The values presented are for guidance purposes and do not constitute the practice of engineering. East Coast Erosion Blankets LLC (ECEB) ascertains that at the time of manufacture, all information presented herein is accurate and reliable and falls within the ECEB manufacturing product specification variances. If the product does not meet the stated values and ECEB is notified in writing prior to installation, the product will be replaced at no cost to the purchaser. ECEB will not be held liable for any type of damage or losses, directly, or indirectly for failure of this product. Current revision supersedes all previous versions for this product.

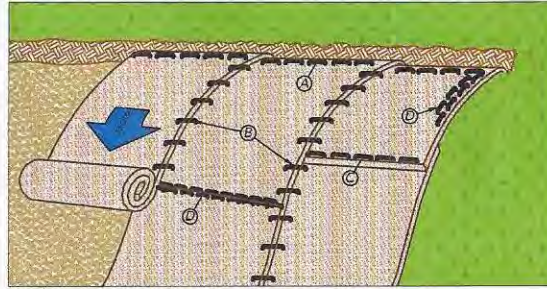
Channel Installation Detail



Channel Installation Instructions:

1. Dig a 6" by 6" trench both up-slope, down-slope, and along the top side of the channel. Prepare the slope soil surface (raking, seeding and fertilizing). Note, if used with stormwater discharge, place the up-slope trench at the face of the discharge structure footer.
2. Begin by placing the center blanket a minimum of 12" down-slope of the up-slope trench. Secure the blanket at the bottom of the trench with staples placed 12" apart. Backfill and compact the trench. Apply seed, and fold the blanket over soil, secure with a row of staples placed 12" apart across the width of the blanket (See Diagram A).
3. Roll the blanket vertically down the slope. Secure using the appropriate staple pattern below, specified by slope. (See Staple Patterns)
4. Continue placing blankets up the slopes on both sides, with a minimum 4" overlapping (Diagram B), and securing each blanket in the beginning trench (Diagram A).
5. Additional horizontal blankets can be joined using a minimum 4" overlapping or shingle style in the direction of water flow. Connect the blankets by placing staples approximately 5" apart across the width of the blankets. (Diagram C)
6. For maximum performance a check slot should be placed at 25'-40' intervals. Place a row of staples 4" apart along the entire width of the channel. A second row should be placed 4" below in a staggered pattern. (Diagram D)
7. The end of the blanket must be secured in a 6" x 6" trench by a row of staples placed at 12" intervals. (Diagram E)
8. At the top edge of the side slope, fasten the blanket in a 6" x 6" trench with staples placed at 12" intervals. Install an additional row of staples 1'-0" down slope of the trench along the width of the fabric. (Diagram F)

Slope Installation Detail



Slope Installation Guidelines:

These guidelines are recommendations only. Any questions with the installation should be confirmed with your local distributor.

1. Dig a 6" by 6" trench both up-slope and down-slope of the area the matting is to be applied. Prepare the slope soil surface (raking, seeding and fertilizing).
2. Begin by placing the blanket a minimum of 12" down-slope of the up-slope trench. Secure the blanket at the bottom of the trench with staples placed 12" apart. Backfill and compact the trench. Apply seed, and fold the blanket over soil, secure with a row of staples placed 12" apart across the width of the blanket. (See Diagram A)
3. Roll the blanket vertically down the slope. Secure using the appropriate staple pattern below, specified by slope. (See Staple Patterns)
4. Parallel blankets must be overlapped by a minimum of 4", and secured with a row of staples placed approximately 3'-0" apart. (See Diagram B)
5. Additional vertical blankets can be joined using a minimum 4" overlapping or shingle style (See Diagrams C) in the direction of water flow. Connect the blankets by placing staples approximately 12" apart across the width of the blankets.
6. For maximum performance a check slot should be placed at 25'-40' intervals. Place a row of staples 4" apart along the entire width of the slope. A second row should be placed 4" below in a staggered pattern. Then continue with general installation. (See Diagrams D)
7. The end of blanket must be secured in a 6" x 6" trench with a row of staples placed at 12" intervals. (Diagram E)



DIAGRAM B



DIAGRAM C

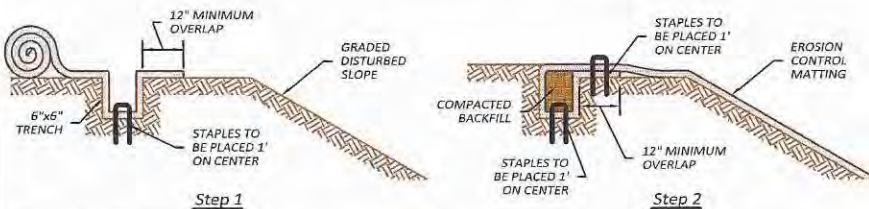


DIAGRAM D



DIAGRAM E

Up-slope Trench Installation Detail (Diagram A)



Step 1

Step 2

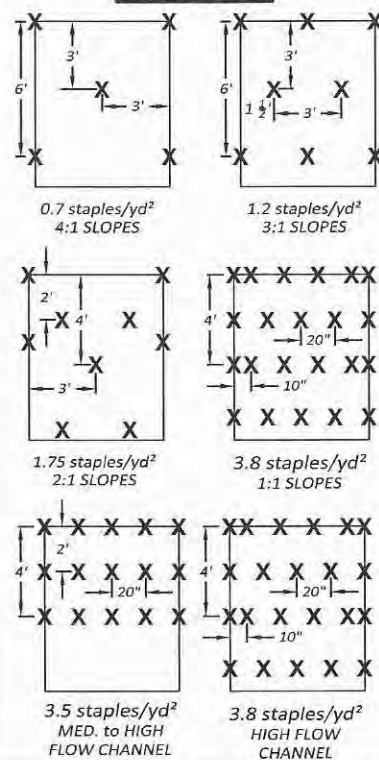
Down-slope Trench Installation Detail (Diagram E)



Step 1

Step 2

Staple Patterns:



EASTCOAST
erosion blankets

443 Bricker Road Bernville, PA 19506

Toll Free: 1-800-582-4005 * Phone: +1-610-488-8496 * Fax: +1-610-488-8494


Proud Member of:



REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.	
		Name (TITLE) Michael W. Muth - Project Manager	
NAME AND SIGNATURE OF CONTRACTOR			
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 (ER EDITION OF SEP 93 IS OBSOLETE (PROPONENT: CEMP-CE) 415-1-10) SHEET __1__ OF __1__			

Noted:

This material has slightly more gravel than recommended by the specification, and therefore slightly less sand and silt/clay. This material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
	10/30/12
Signature	Date



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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-10-17-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924G
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/24/2012-10/24/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	85.0	
#4	4.75	79.4	
#10	2.00	69.8	
#40	0.425	49.7	
#200	0.075	16.5	
Hydrometer Analysis Results	0.050	13.5	
	0.020	10.6	
	0.010	7.6	
	0.005	4.9	
	0.002	3.4	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Brown Sand Subrounded Mix of hard and weak particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)			
Gravel	(3 inches to #10)	30.2%	
Fraction Passing #10:			
Sand	(#10 to 0.05 mm)	56.3% of total	80.7%
Silt	(0.05 mm to 0.002 mm)	13.5% of total	14.5%
Clay	(Less than 0.002 mm)		4.9%
Total			100.0%
USDA Soil Textural Class		Loamy Sand	

Using USCS Size
Designations

20.6% gravel

62.9% sand

16.5% silt/clay

Emily J. Rodriguez

REPORT REVIEWED BY: _____

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Material:	NSG-GCM-10-17-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924G
Location:	Stockpile	Item Number:	Topsoil
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/22/2012	Tested By:	John Brinsfield

Report of Organic Content of Soils by Loss on Ignition
Test Method: AASHTO T267

Inorganic Content: 95.8 % (Sand, silt, clay, etc.)
Organic Content: 4.2 %

Specification: 3.0-5.0

Comments:

Test results comply with specifications.



Report Reviewed By: _____

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Client:	Services Inc.	Project:	Silver Lake Removal Action
Material:	NSG-GCM-10-17-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924G
Location:	Stockpile	Item Number:	Topsoil
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/22/2012	Tested By:	John Brinsfield

Report of pH of Soil

Test Method: ASTM D4972 Method A

pH Test Result: 6.7 (in Distilled Water)

N/A (In Calcium Chloride Solution)

Specification 5.0-7.0

Comments:

Test results comply with specifications.

Emily J. Rodriguez

Report Reviewed By: _____

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-10-17-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0924G
Date Sampled:	10/17/2012	Sampled By:	Client
Date Tested:	10/22/2012	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0924G	NSG-GCM-10-17-12-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	2.9	97.1	
19.0 mm	3/4"	2.5	94.6	
12.5 mm	1/2"	5.9	88.7	
6.3 mm	1/4"	7.4	81.3	
4.75 mm	#4	1.9	79.4	
2.00 mm	#10	9.6	69.8	
0.850 mm	#20	10.5	59.3	
0.600 mm	#30	4.4	54.9	
0.425 mm	#40	5.2	49.7	
0.150 mm	#100	19.9	29.8	
0.075 mm	#200	13.3	16.5	
Pan		16.5		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

PDF

REMARKS " " " "	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)
	Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR

SECTION II – APPROVAL ACTION

ENCLOSURES RETURNED <i>(List by Item No.)</i>	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE
------------------------------------------------------	---------------------------------------------------------	-------------

ENG FORM 4025-R, MAR 95
415-1-10)

(ER

EDITION OF SEP 93 IS OBSOLETE
SHEET __1__ OF __1__

(PROPONENT: CEMP-CE)

<input checked="" type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken

Reviewed solely for general conformance with contract documents

ARCADIS of New York, Inc.


 Signature

10/26/12
 Date

Date: 10/25/2012

Technician: Joe Mahoney

Item: D50 = 14"

Plant: Lucia

Sieve Size	# Retained	% Retained	% Passing		SPEC
22"	0	0.00	100.00		
21"	3	4.41	95.59		100
20"	4	5.88	89.71		
19"	3	4.41	85.29		
18"	3	4.41	80.88		
17"	5	7.35	73.53		
16"	6	8.82	64.71		
15"	8	11.76	52.94		
14"	5	7.35	45.59		50
13"	8	11.76	33.82		
12"	7	10.29	23.53		
11"	4	5.88	17.65		
10"	2	2.94	14.71		
9"	4	5.88	8.82		
8"	4	5.88	2.94		
7"	2	2.94	0.00		0
6"	0	0.00	0.00		
Total	68	100.00			

REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)
	Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR

SECTION II – APPROVAL ACTION		
ENCLOSURES RETURNED <i>(List by Item No.)</i>	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

ENG FORM 4025-R, MAR 95
415-1-10)

(ER

EDITION OF SEP 93 IS OBSOLETE
SHEET __1_ OF _1_

(PROPONENT: CEMP-CE)

New England Wetland Plants Inc

820 West Street
Amherst, MA 01002

New England Wet Mix

Item	Botanical Name	Purity	Germ	Hard	Dorm	Origin	Origin
Fox Sedge, PA Ecotype	<i>Carex vulpinoidea</i> , PA Ecotype	33.56%	34.0%		63.0%	PA	
Lund (Shallow) Sedge, PA Ecotype	<i>Carex lurida</i> , PA Ecotype	15.89%	81.0%		8.0%	PA	
Green Bulrush, WI Ecotype	<i>Scirpus atrovirens</i> , WI Ecotype	74%	1.0%		31.0%	WI	
Cosmos (Bristly) Sedge, PA Ecotype	<i>Carex comosa</i> , PA Ecotype	6.98%	19.0%		60.0%	PA	
Fringed (Nodding) Sedge, PA Ecotype	<i>Carex crinita</i> , PA Ecotype	6.80%	28.0%		56.0%	PA	
Blue Vervain, PA Ecotype	<i>Verbena hastata</i> , PA Ecotype	6.49%	93.0%			PA	
Hop Sedge, PA Ecotype	<i>Carex hypnoides</i> , PA Ecotype	4.89%	1.0%		87.0%	PA	
Soft Rush	<i>Juncus effusus</i>	2.98%	1.0%		89.0%	PA	
American Mannagrass, PA Ecotype	<i>Glyceria grandis</i> , PA Ecotype	1.99%	24.0%			PA	
Blueflag, PA Ecotype	<i>Iris versicolor</i> , PA Ecotype	1.98%	1.0%		56.0%	PA	
Boneset, PA Ecotype	<i>Eupatorium perfoliatum</i> , PA Eco	1.57%	63.0%		28.0%	PA	
Woolgrass, Coastal Plain NC Ecotype	<i>Scirpus cyperinus</i> , Coastal Pla	1.49%	1.0%		14.0%	NC	
Softstem Bulrush, PA Ecotype	<i>Scirpus validus</i> (<i>Schoenoplectus</i>)	1.00%	1.0%		85.0%	PA	
Mud Plantain (Water Plantain), PA Ecotype	<i>Alisma subcordatum</i> , PA plantain	0.99%	1.0%		79.0%	PA	
Rattlesnake Grass, PA Ecotype	<i>Glyceria canadensis</i> , PA Ecotype	0.99%	1.0%		74.0%	PA	
Purplestem Astar, PA Ecotype	<i>Aster purpureus</i> , <i>Symphoricarpos</i>	0.97%	18.0%		4.0%	PA	
Swamp Milkweed, WI Ecotype	<i>Asclepias incarnata</i> , WI Ecotype	0.49%	36.0%		54.0%	WI	

Other Crop: 0.03%
Inert Matter: 3.17%
Weed Seed: 0.00%

Net Weight: 15 LB
Lot Number: NEWE00214
Date Tested: May 2012

AMIS 1039

New England Wetland Plants Inc

820 West Street
Amherst, MA 01002

New England Conservation Seed Bank

State	Botanical Name	Purity	Germ	Hard	Dorm	Production Origin	Genetic Origin
Virginia Wildrye, PA Ecotype	<i>Elymus virginicus</i> PA Ecotype	19.9%	95.0%			PA	
Little Bluestem, For Indiantown Gap, PA Ecotype	<i>S. hirsutus</i> <i>teoparum</i> , For	15.94%	20.3%		72.2%	PA	
Creeping Red Fescue Pennlawn	<i>Festuca rubra</i> "Pennlawn"	14.85%	86.0%			OR	
Big Bluestem, "Magnum"	<i>Andropogon</i> <i>gerardii</i> , "Magnum"	12.46%	45.0%		28.0%	PA	
Partridge Pea, PA Ecotype	<i>Chamaecrista</i> <i>fasciculata</i> (Cass)	7.99%	47.0%	31.0%		PA	
Switchgrass, Cave-In- Rock	<i>Panicum virgatum</i> "Cave-In-Rock"	6.87%	5.0%		78.0%	PA	
Deertongue, "Rogers"	<i>Panicum</i> <i>clandestinum</i> "Dichanth"	4.56%	6.0%		36.0%	PA	
Oxeye Sunflower, PA Ecotype	<i>Helianthus</i> <i>helianthoides</i> , PA Ec	1.93%	85.0%			PA	
Golden Alexander, PA Ecotype	<i>Zizia aurea</i> , PA Ecotype	1.50%	4.0%		88.0%	PA	
Spotted Joe Pye Weed, PA Ecotype	<i>Eupatorium</i> <i>maculatum</i> (Eupatori)	1.38%	68.0%			PA	
Blue Vervain, PA Ecotype	<i>Verbena hastata</i> , PA Ecotype	1.00%	93.6%			PA	
Flat Topped White Aster, PA Ecotype	<i>Aster umbellatus</i> "Doellingeria"	0.48%	31.0%		56.0%	PA	
Early Goldenrod, PA Ecotype	<i>Solidago juncea</i> , PA Ecotype	0.41%	83.0%			PA	

Other Crop: 0.15%
Inert Matter: 10.24%
Weed Seed: 0.01%

Net Weight: 50.13g
Lot Number: NEWE00205
Date Tested: April 2012

AMS 1039



NEW ENGLAND WETLAND PLANTS, INC
820 WEST STREET
AMHERST, MA 01002
PHONE: 413.548.8000 FAX: 413.549.4000
WEB ADDRESS: WWW.NEWP.COM

INVOICE

NUMBER: 12403
DATE: Nov 2, 2012
PAGE: 1

SOLD TO:

SEVENSON ENVIRONMENTAL
SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

SHIP TO:

SEVENSON ENVIRONMENTAL
SERVICES, INC
1000 EAST STREET
PITTSFIELD, MA 01201

PHONE: 413-236-5676
FAX: 413-236-5964

CUSTOMER ID	PO NUMBER	PAYMENT TERMS	
SEVENSON	268102 JOE	C.O.D.	
ENVIRONMENT	SHIPPING METHOD	SHIP DATE	DUE DATE
REF 66	UPS Ground	11/2/12	11/2/12

QUANTITY	DESCRIPTION	UNIT PRICE	EXTENSION
15	New England WETMIX (Wetland Seed Mix)	125.00	1875.00
50	New England Conservation/Wildlife Seed Mix	30.00	1500.00
1	Shipping & Handling	65.00	65.00
<div>JOB NO. 1077 P.O. NO. 268102 CODE 01107709 AMOUNT 3440.00 DATE SENT 11/8/12 APPROVED _____</div> <div>RECEIVED NOV - 5 2012</div>			

Overdue invoices will be assessed a finance charge of 18% per annum

SUBTOTAL 3440.00

check #: _____

SALES TAX

Signature _____ Date: _____

TOTAL INVOICE AMOUNT 3440.00

Print Name: _____

PAYMENT RECEIVED

I take full responsibility that the plant count and amount charged are correct and
invoice will be paid in full.

TOTAL DUE 3,440.00

REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 (ER EDITION OF SEP 93 IS OBSOLETE (PROPONENT: CEMP-CE) 415-1-10) SHEET __1__ OF __1__			

Noted:

This material has slightly more gravel than recommended by the specification, and therefore slightly less sand and silt/clay; however the percentage of gravel is still less than 25% and the percentage of silt/clay is still more than 16%. This material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	11/12/12 Date



3348 Route 208, Campbell Hall, NY 10916
Phone: 845-496-1600 Fax: 845-496-1398
25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-GCM-10-26-12-1	Project Number:	120458
Source:	Senenson Envriomental	Lab Number:	12-0950A
Date Sampled:	10/26/2012	Sampled By:	Client
Date Tested:	11/2/2012	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0950A	NGS-GCM-10-26-12-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	1.4	98.6	
19.0 mm	3/4"	2.4	96.2	
12.5 mm	1/2"	4.1	92.1	
6.3 mm	1/4"	6.5	85.6	
4.75 mm	#4	1.8	83.8	
2.00 mm	#10	8.4	75.4	
0.850 mm	#20	9.8	65.6	
0.600 mm	#30	3.9	61.7	
0.425 mm	#40	4.8	56.9	
0.150 mm	#100	18.5	38.4	
0.075 mm	#200	14.2	24.2	
Pan		24.2		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-GCM-10-26-12-1	Project Number:	120458
Source:	Senenson Envriental	Lab Number:	12-0950A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/26/2012	Sampled By:	Client
Date Tested:	11/6/2012-11/06/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	89.7	
#4	4.75	83.8	
#10	2.00	75.4	
#40	0.425	56.9	
#200	0.075	24.2	
Hydrometer Analysis Results	0.050	18.0	
	0.020	9.8	
	0.010	6.1	
	0.005	2.3	
	0.002		
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	24.6%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	76.1%
Silt	(0.05 mm to 0.002 mm)	23.9%
Clay	(Less than 0.002 mm)	0.0%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Emily J. Rodriguez

REPORT REVIEWED BY: _____

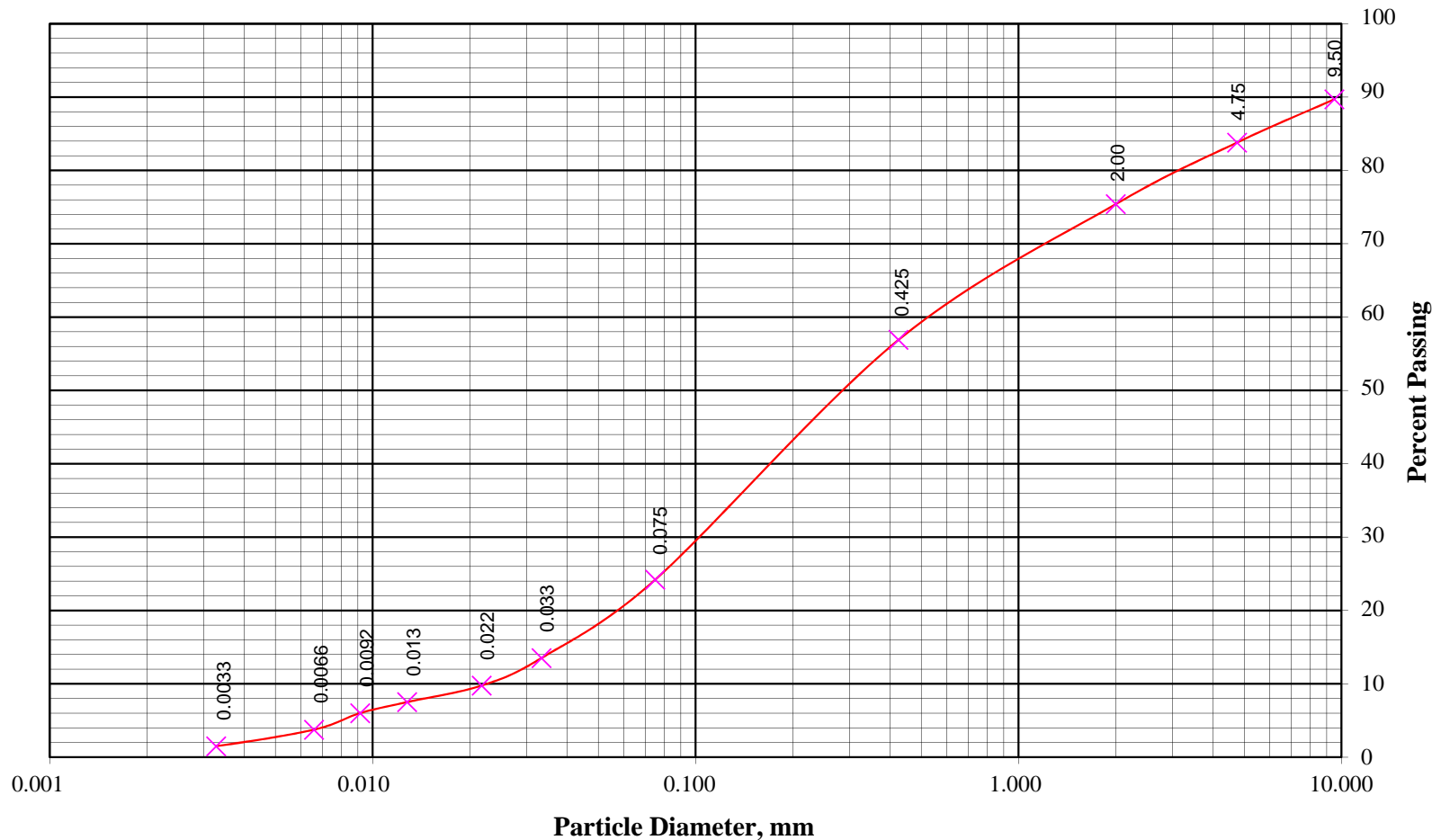
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42 Day Farm Road, West Stockbridge, MA 01266
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-GCM-10-26-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0950A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/26/2012	Sampled By:	Client
Date Tested:	11/6/2012-11/06/2012	Tested By:	John Brinsfield



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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-GCM-10-26-12-2	Project Number:	120458
Source:	Senenson Envriomental	Lab Number:	12-0950B
Date Sampled:	10/26/2012	Sampled By:	Client
Date Tested:	11/2/2012	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0950B	NGS-GCM-10-26-12-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	4.8	95.2	
19.0 mm	3/4"	3.1	92.1	
12.5 mm	1/2"	4.2	87.9	
6.3 mm	1/4"	5.4	82.5	
4.75 mm	#4	0.8	81.7	
2.00 mm	#10	6.0	75.7	
0.850 mm	#20	8.5	67.2	
0.600 mm	#30	4.8	62.4	
0.425 mm	#40	4.6	57.8	
0.150 mm	#100	20.1	37.7	
0.075 mm	#200	17.0	20.7	
Pan		20.7		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-GCM-10-26-12-2	Project Number:	120458
Source:	Senenson Envrionmental	Lab Number:	12-0950B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/26/2012	Sampled By:	Client
Date Tested:	11/6/2012-11/06/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	85.7	
#4	4.75	81.7	
#10	2.00	75.7	
#40	0.425	57.8	
#200	0.075	20.7	
Hydrometer Analysis Results	0.050	16.0	
	0.020	8.2	
	0.010	5.9	
	0.005	2.6	
	0.002		
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	24.3%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	78.9%
Silt	(0.05 mm to 0.002 mm)	21.1%
Clay	(Less than 0.002 mm)	0.0%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

REPORT REVIEWED BY: Emily J. Rodriguez

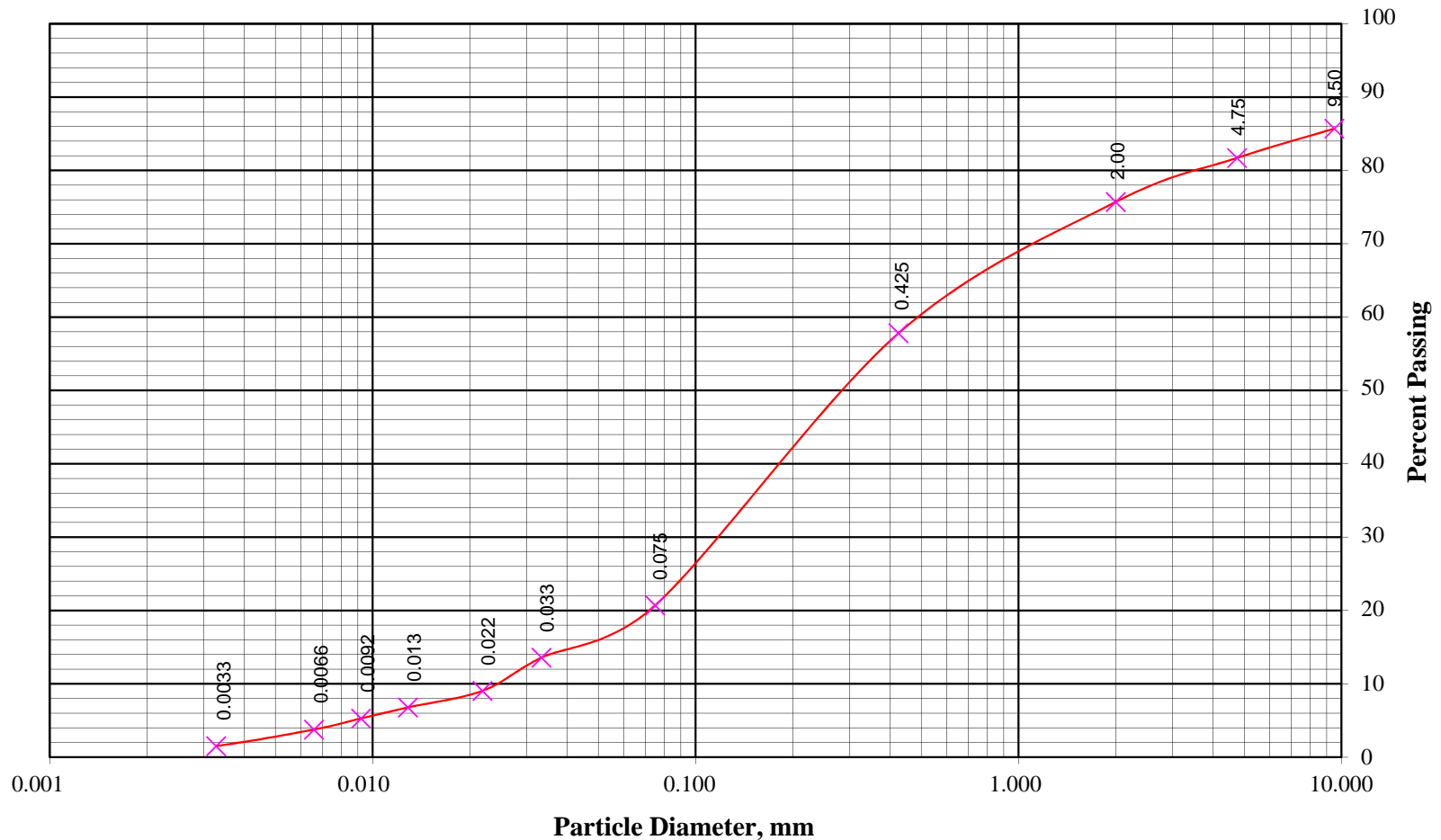
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25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NGS-GCM-10-26-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0950B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	10/26/2012	Sampled By:	Client
Date Tested:	11/6/2012-11/06/2012	Tested By:	John Brinsfield



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[illegible]

REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)
	Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR

SECTION II – APPROVAL ACTION		
ENCLOSURES RETURNED <i>(List by Item No.)</i>	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

ENG FORM 4025-R, MAR 95
415-1-10)

(ER

EDITION OF SEP 93 IS OBSOLETE
SHEET __1_ OF _1_

(PROPONENT: CEMP-CE)



3348 Route 208, Campbell Hall, NY 10916
Phone: 845-496-1600 Fax: 845-496-1398
25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Material:	NSG-ST-11-14-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/27/2012	Tested By:	Jared Vassell

Report of Organic Content of Soils by Loss on Ignition
Test Method: AASHTO T267

Inorganic Content: 96.9 % (Sand, silt, clay, etc.)
Organic Content: 3.1 %

Specification: _____

Comments:


Report Reviewed By: _____

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[illegible]

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		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II - APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1_ OF __1_	(PROPONENT: CEMP-CE)

Noted for Submittal #0018: The material is slightly outside of the specified % passing range. This material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	12/19/12 Date

Advance Testing

3348 Route 208, Campbell Hall, NY 10916
 Phone: 845-496-1600 Fax: 845-496-1398
 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GH-11-14-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993D
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/19/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0993D	NSG-GH-11-14-12-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	7.8	92.2	
25.0 mm	1"	16.6	75.6	
19.0 mm	3/4"	11.5	64.1	
12.5 mm	1/2"	8.0	56.1	
6.3 mm	1/4"	8.5	47.6	
4.75 mm	#4	1.9	45.7	
2.00 mm	#10	7.7	38.0	
0.850 mm	#20	7.9	30.1	
0.600 mm	#30	2.9	27.2	
0.425 mm	#40	2.9	24.3	
0.150 mm	#100	9.5	14.8	
0.075 mm	#200	6.4	8.4	
Pan		8.4		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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Advance Testing

3348 Route 208, Campbell Hall, NY 10916
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 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GH-11-14-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993E
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/19/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0993E	NSG-GH-11-14-12-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	6.0	94.0	
25.0 mm	1"	13.3	80.7	
19.0 mm	3/4"	6.3	74.4	
12.5 mm	1/2"	5.2	69.2	
6.3 mm	1/4"	8.1	61.1	
4.75 mm	#4	2.8	58.3	
2.00 mm	#10	8.8	49.5	
0.850 mm	#20	10.5	39.0	
0.600 mm	#30	4.3	34.7	
0.425 mm	#40	3.8	30.9	
0.150 mm	#100	12.5	18.4	
0.075 mm	#200	7.8	10.6	
Pan		10.6		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GH-11-14-12-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993F
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/19/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0993F	NSG-GH-11-14-12-3	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	3.6	96.4	
19.0 mm	3/4"	5.2	94.8	
12.5 mm	1/2"	8.1	91.9	
6.3 mm	1/4"	10.1	89.9	
4.75 mm	#4	3.2	96.8	
2.00 mm	#10	11.9	88.1	
0.850 mm	#20	13.2	86.8	
0.600 mm	#30	5.1	94.9	
0.425 mm	#40	4.5	95.5	
0.150 mm	#100	14.2	85.8	
0.075 mm	#200	8.8	91.2	
Pan		12.1		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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[illegible]

REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1__ OF __1__	(PROPONENT: CEMP-CE)

Noted for Submittal #0019:

This material has slightly more gravel than recommended by the specification, and therefore slightly less sand and silt/clay; however, when the USCS and USDA size designations are considered, the percentage of gravel is still less than 25% and the percentage of silt/clay is still more than 16%. This material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	12/6/12 Date

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 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-11-14-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993B
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/19/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0993B	NSG-GCM-11-14-12-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	3.0	97.0	
19.0 mm	3/4"	4.2	92.8	
12.5 mm	1/2"	3.8	89.0	
6.3 mm	1/4"	5.4	83.6	
4.75 mm	#4	1.7	81.9	
2.00 mm	#10	5.7	76.2	
0.850 mm	#20	7.7	68.5	
0.600 mm	#30	3.9	64.6	
0.425 mm	#40	4.1	60.5	
0.150 mm	#100	19.0	41.5	
0.075 mm	#200	17.1	24.4	
Pan		24.4		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-11-14-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/20/2012-11/21/2012	Tested By:	Maxwell Nicols

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	86.7	
#4	4.75	81.9	
#10	2.00	76.2	
#40	0.425	60.5	
#200	0.075	24.4	
Hydrometer Analysis Results	0.050	19.6	
	0.020	12.9	
	0.010	9.4	
	0.005	6.3	
	0.002	4.2	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	23.8%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	74.3%
Silt	(0.05 mm to 0.002 mm)	20.2%
Clay	(Less than 0.002 mm)	5.5%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Emily J. Rodriguez

REPORT REVIEWED BY:

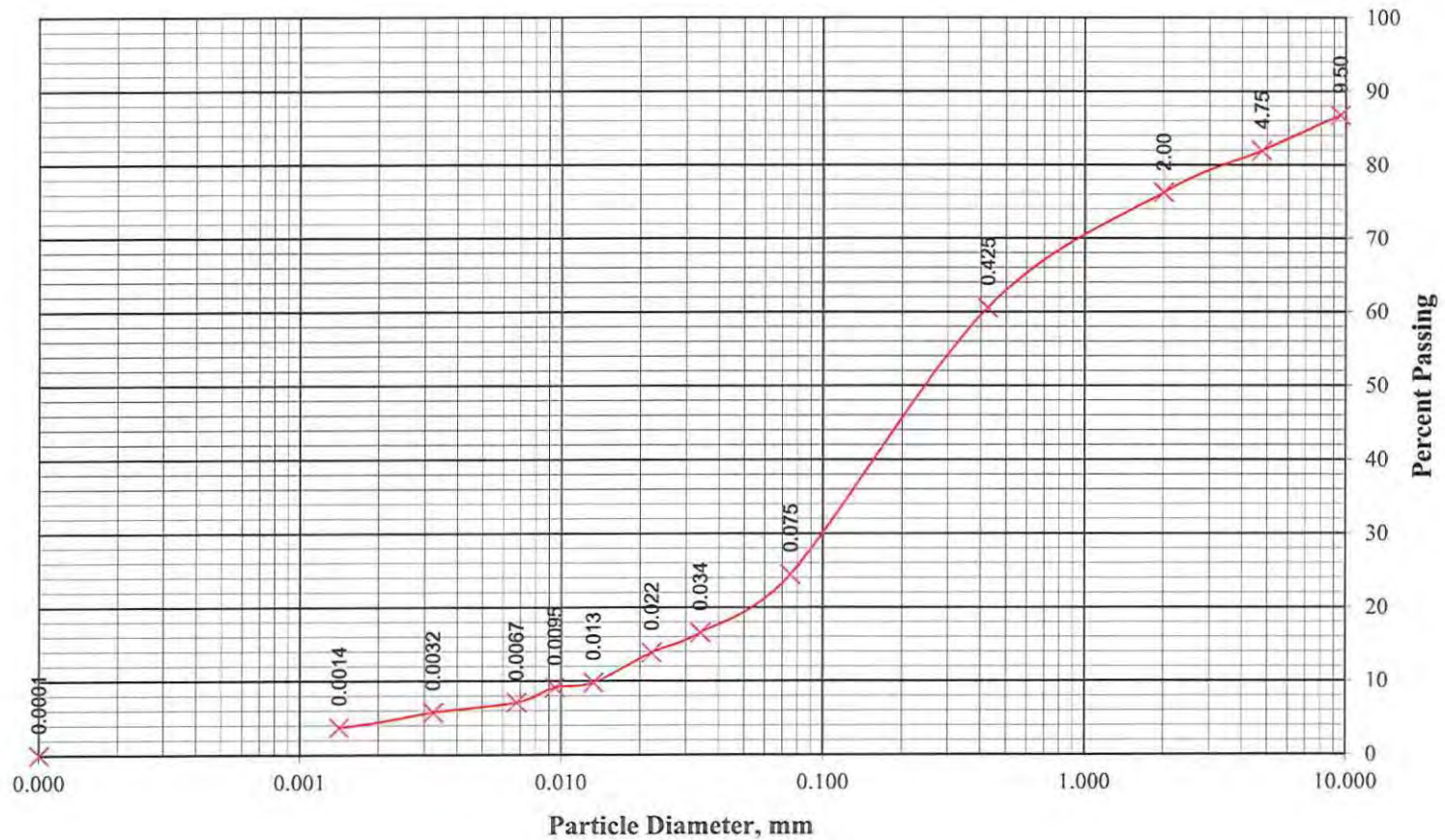
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-11-14-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/20/2012-11/21/2012	Tested By:	Maxwell Nicols



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Client:	Sevenson Environmental Services	Project	Silver Lake Removal Action
Material:	NSG-GCM-11-14-12-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/26/2012	Tested By:	Emily Rodriguez

Report for Unified Soil Classification


Test Method: ASTM D2487

USCS Group Symbol: **SM**

USCS Group Name: **Silty Sand with Gravel**

Specifications:

Comments:



Report Reviewed By:

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-11-14-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993C
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/19/2012	Tested By:	Eric Brousseau

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0993C	NSG-GCM-11-14-12-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	8.7	91.3	
19.0 mm	3/4"	1.7	89.6	
12.5 mm	1/2"	5.7	83.9	
6.3 mm	1/4"	4.9	79.0	
4.75 mm	#4	1.5	77.5	
2.00 mm	#10	5.5	72.0	
0.850 mm	#20	8.0	64.0	
0.600 mm	#30	3.9	60.1	
0.425 mm	#40	4.7	55.4	
0.150 mm	#100	19.1	36.3	
0.075 mm	#200	16.1	20.2	
Pan		20.2		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-11-14-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993C
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/20/2012-11/21/2012	Tested By:	Maxwell Nicols

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	82.4	
#4	4.75	77.5	
#10	2.00	72.0	
#40	0.425	55.4	
#200	0.075	20.2	
Hydrometer Analysis Results	0.050	16.3	
	0.020	11.7	
	0.010	8.4	
	0.005	6.2	
	0.002	4.1	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	28.0%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	77.4%
Silt	(0.05 mm to 0.002 mm)	16.9%
Clay	(Less than 0.002 mm)	5.7%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Emily J. Rodriguez

REPORT REVIEWED BY:

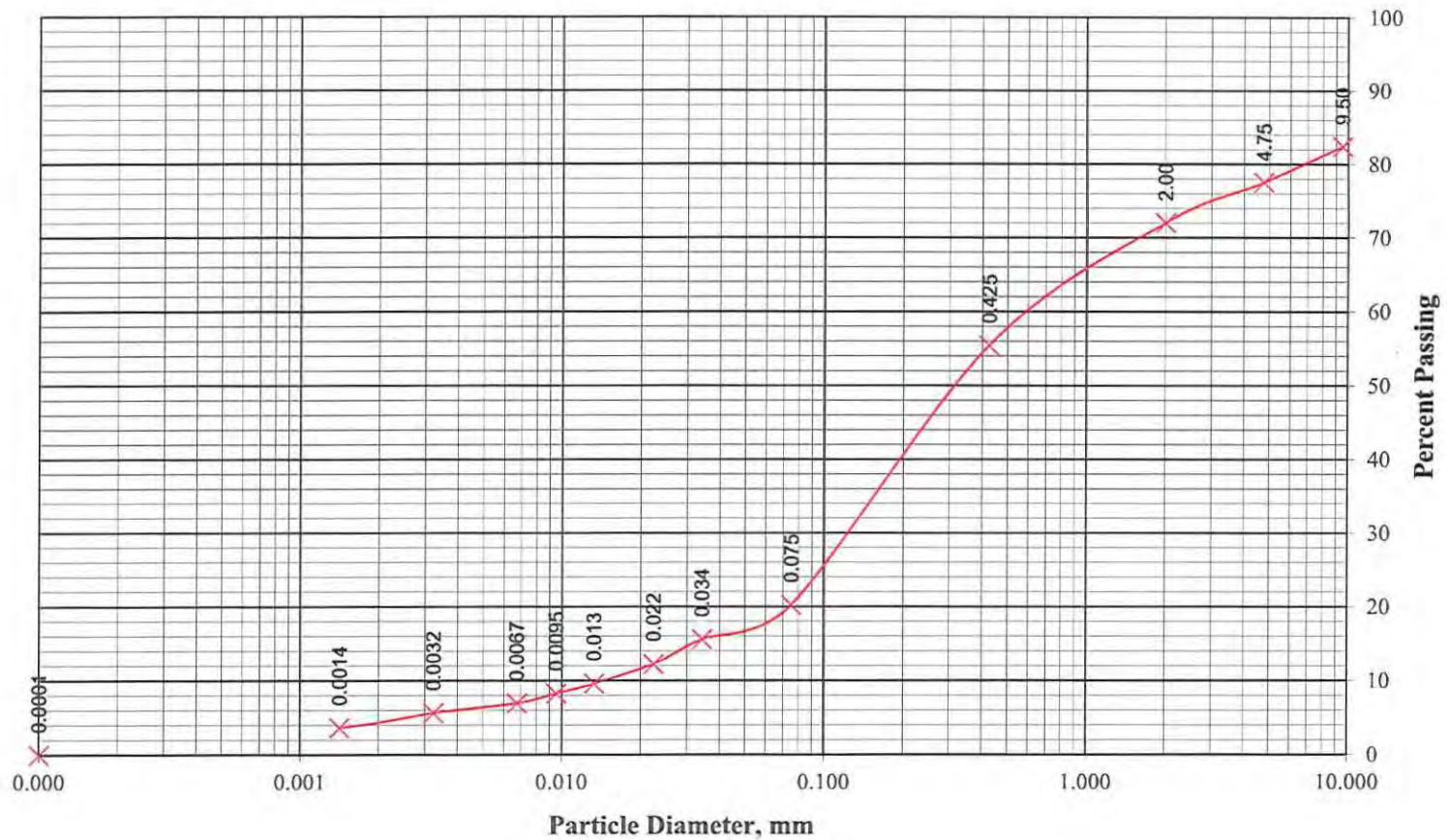
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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-11-14-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993C
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/20/2012-11/21/2012	Tested By:	Maxwell Nicols



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25 Hathorn Road, Enfield, NH 03748

42 Day Farm Road, West Stockbridge, MA 01266

1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services	Project	Silver Lake Removal Action
Material:	NSG-GCM-11-14-12-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-0993C
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	11/14/2012	Sampled By:	Client
Date Tested:	11/26/2012	Tested By:	Emily Rodriguez

Report for Unified Soil Classification

Test Method: ASTM D2487

USCS Group Symbol: SM

USCS Group Name: Silty Sand with Gravel

Specifications:

Comments:

Emily J. Rodriguez

Report Reviewed By:

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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE	
ENG FORM 4025-R, MAR 95 415-1-10)	(ER EDITION OF SEP 93 IS OBSOLETE SHEET _1_ OF _1_	(PROPONENT: CEMP-CE)	

Noted for Submittal #0020:

This material has slightly more gravel than recommended by the specification, and therefore slightly less sand and/or silt/clay; however, the percentage of gravel is still less than 25% and the percentage of silt/clay is still more than 16%. This material is considered acceptable for its intended use.

☐ REVIEWED
 ☒ REVIEWED & NOTED
 ☐ REVISE & RESUBMIT

☐ REJECTED
 ☐ For information only
 ☐ Received, no action taken

Reviewed solely for general conformance with contract documents
 ARCADIS of New York, Inc.

 Signature

12/14/12
 Date

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 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-3-12-8	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1032B
Date Sampled:	12/3/2012	Sampled By:	Client
Date Tested:	12/11/2012	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-1032B	NSG-GCM-12-3-12-8	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	3.4	96.6	
12.5 mm	1/2"	3.1	93.5	
6.3 mm	1/4"	5.3	88.2	
4.75 mm	#4	1.9	86.3	
2.00 mm	#10	5.6	80.7	
0.850 mm	#20	7.6	73.1	
0.600 mm	#30	4.7	68.4	
0.425 mm	#40	5.6	62.8	
0.150 mm	#100	23.5	39.3	
0.075 mm	#200	19.0	20.3	
Pan		20.3		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

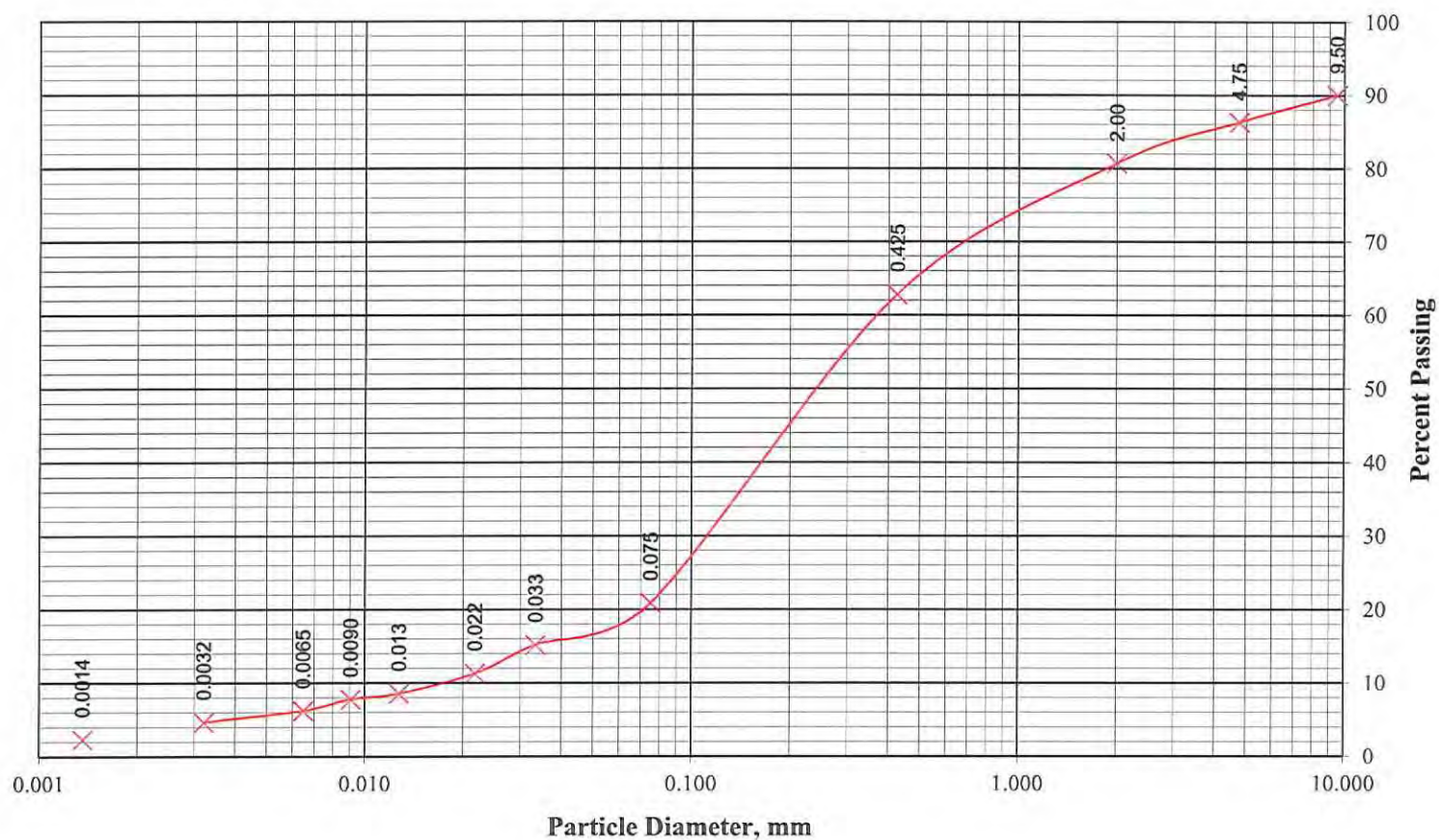
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-3-12-8	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1032B
Location:	Stockpile	Item Number:	ASTM D 422
Date Sampled:	12/3/2012	Sampled By:	Client
Date Tested:	12/12/2012-12/11/2012	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-3-12-8	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1032B
Location:	Stockpile	Item Number:	ASTM D 422
Date Sampled:	12/3/2012	Sampled By:	Client
Date Tested:	12/12/2012-12/11/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	90.0	
#4	4.75	86.3	
#10	2.00	80.7	
#40	0.425	62.8	
#200	0.075	20.9	
Hydrometer Analysis Results	0.050	16.3	
	0.020	10.6	
	0.010	8.0	
	0.005	5.8	
	0.002	3.5	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	19.3%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	79.8%
Silt	(0.05 mm to 0.002 mm)	15.9%
Clay	(Less than 0.002 mm)	4.3%
Total		100.0%
USDA Soil Textural Class		

Emily J. Rodriguez

REPORT REVIEWED BY: _____

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		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET _1_ OF _1_	(PROPOSER: CEMP-CE)

Noted for Submittal #0021:

This material has slightly more gravel than recommended by the specification and therefore slightly less sand and/or silt/clay; however, the percentage of gravel is still less than 25% and the percentage of silt/clay is still more than 16%. This material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	1/8/13 Date

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 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM 12-12-12-9	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1055A
Date Sampled:	12/12/2012	Sampled By:	Client
Date Tested:	12/17/2012	Tested By:	Jared Vassell

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-1055A	NSG-GCM_12-12-12-9	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	2.2	97.8	
19.0 mm	3/4"	2.8	95.0	
12.5 mm	1/2"	4.6	90.4	
6.3 mm	1/4"	4.2	86.2	
4.75 mm	#4	1.6	84.6	
2.00 mm	#10	6.3	78.3	
0.850 mm	#20	7.9	70.4	
0.600 mm	#30	4.0	66.4	
0.425 mm	#40	4.6	61.8	
0.150 mm	#100	19.0	42.8	
0.075 mm	#200	16.4	26.4	
Pan		26.4		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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25 Hathorn Road, Enfield, NH 03748
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM 12-12-12-9	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1055A
Location:	Stockpile	Item Number:	No Specification Available
Date Sampled:	12/12/2012	Sampled By:	Client
Date Tested:	12/19/2012-12/19/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	88.5	
#4	4.75	84.6	
#10	2.00	78.3	
#40	0.425	61.8	
#200	0.075	26.4	
Hydrometer Analysis Results	0.050	18.9	
	0.020	8.5	
	0.010	6.4	
	0.005	4.0	
	0.002	2.2	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	21.7%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	75.9%
Silt	(0.05 mm to 0.002 mm)	21.3%
Clay	(Less than 0.002 mm)	2.8%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

REPORT REVIEWED BY:

Emily J. Rodriguez

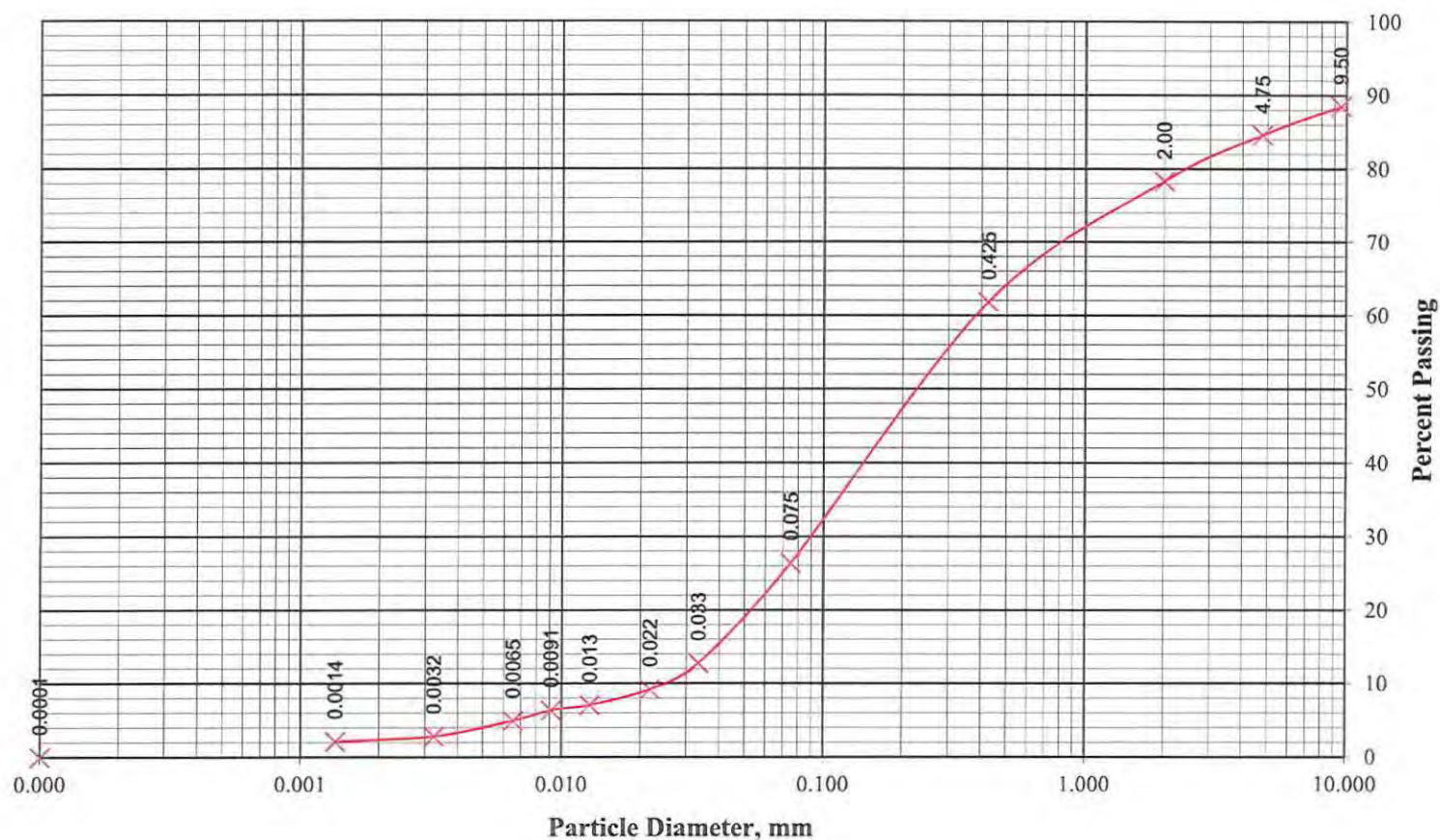
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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM 12-12-12-9	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1055A
Location:	Stockpile	Item Number:	NO Specifications Available
Date Sampled:	12/12/2012	Sampled By:	Client
Date Tested:	12/19/2012-12/19/2012	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM 12-12-12-10	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1055B
Date Sampled:	12/12/2012	Sampled By:	Client
Date Tested:	12/17/2012	Tested By:	Jared Vassell

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-1055B	NSG-GCM 12-12-12-10	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	2.0	98.0	
25.0 mm	1"	5.3	92.7	
19.0 mm	3/4"	3.9	88.8	
12.5 mm	1/2"	3.8	85.0	
6.3 mm	1/4"	5.0	80.0	
4.75 mm	#4	2.6	77.4	
2.00 mm	#10	7.2	70.2	
0.850 mm	#20	7.8	62.4	
0.600 mm	#30	3.7	58.7	
0.425 mm	#40	4.0	54.7	
0.150 mm	#100	17.5	37.2	
0.075 mm	#200	15.4	21.8	
Pan		21.8		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM 12-12-12-10	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1055B
Date Sampled:	12/12/2012	Sampled By:	Client
Date Tested:	12/17/2012	Tested By:	Jared Vassell

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-1055B	NSG-GCM 12-12-12-10	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	2.0	98.0	
25.0 mm	1"	5.3	92.7	
19.0 mm	3/4"	3.9	88.8	
12.5 mm	1/2"	3.8	85.0	
6.3 mm	1/4"	5.0	80.0	
4.75 mm	#4	2.6	77.4	
2.00 mm	#10	7.2	70.2	
0.850 mm	#20	7.8	62.4	
0.600 mm	#30	3.7	58.7	
0.425 mm	#40	4.0	54.7	
0.150 mm	#100	17.5	37.2	
0.075 mm	#200	15.4	21.8	
Pan		21.8		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

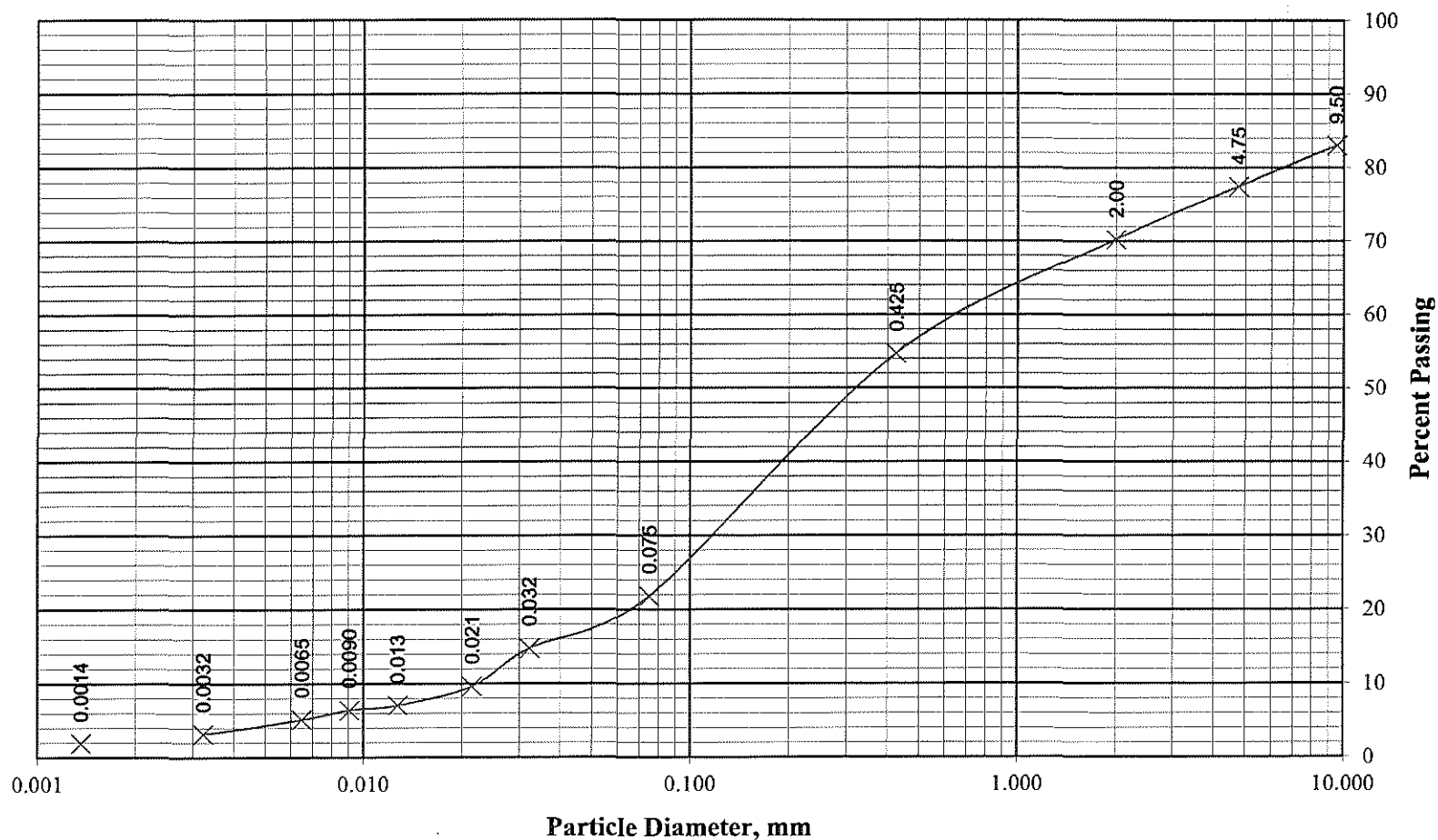
Emily J. Rodriguez

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25 Hathorn Road, Enfield, NH 03748
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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM 12-12-12-10	Project Number:	120458
Source:	Sevenson Environmental Services Inc.	Lab Number:	12-1055B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	12/12/2012	Sampled By:	Client
Date Tested:	12/19/2012-12/19/2012	Tested By:	John Brinsfield



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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1_ OF __1_	(PROPONENT: CEMP-CE)

Noted for Submittal #0022:

This material has slightly more gravel than recommended by the specification and therefore slightly less sand and/or silt/clay; however, the percentage of gravel is still less than 25% and the percentage of silt/clay is still more than 16%. This material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	1/8/13 Date

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-14-12-11	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-1067A
Date Sampled:	12/14/2012	Sampled By:	Client
Date Tested:	12/18/2012	Tested By:	Jared Vassell

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-1067A	NSG-GCM-12-14-12-11	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	1.8	98.2	
19.0 mm	3/4"	2.3	95.9	
12.5 mm	1/2"	3.0	92.9	
6.3 mm	1/4"	4.4	88.5	
4.75 mm	#4	1.6	86.9	
2.00 mm	#10	6.5	80.4	
0.850 mm	#20	8.5	71.9	
0.600 mm	#30	4.6	67.3	
0.425 mm	#40	5.6	61.7	
0.150 mm	#100	21.5	40.2	
0.075 mm	#200	17.0	23.2	
Pan		23.2		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-14-12-11	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-1067A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	12/14/2012	Sampled By:	Client
Date Tested:	12/21/2012-12/21/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	90.5	
#4	4.75	86.9	
#10	2.00	80.4	
#40	0.425	61.7	
#200	0.075	23.2	
Hydrometer Analysis Results	0.050	17.7	
	0.020	10.4	
	0.010	6.8	
	0.005	4.3	
	0.002	2.5	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	19.6%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	78.0%
Silt	(0.05 mm to 0.002 mm)	18.9%
Clay	(Less than 0.002 mm)	3.1%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

REPORT REVIEWED BY: _____

Emily J. Rodriguez

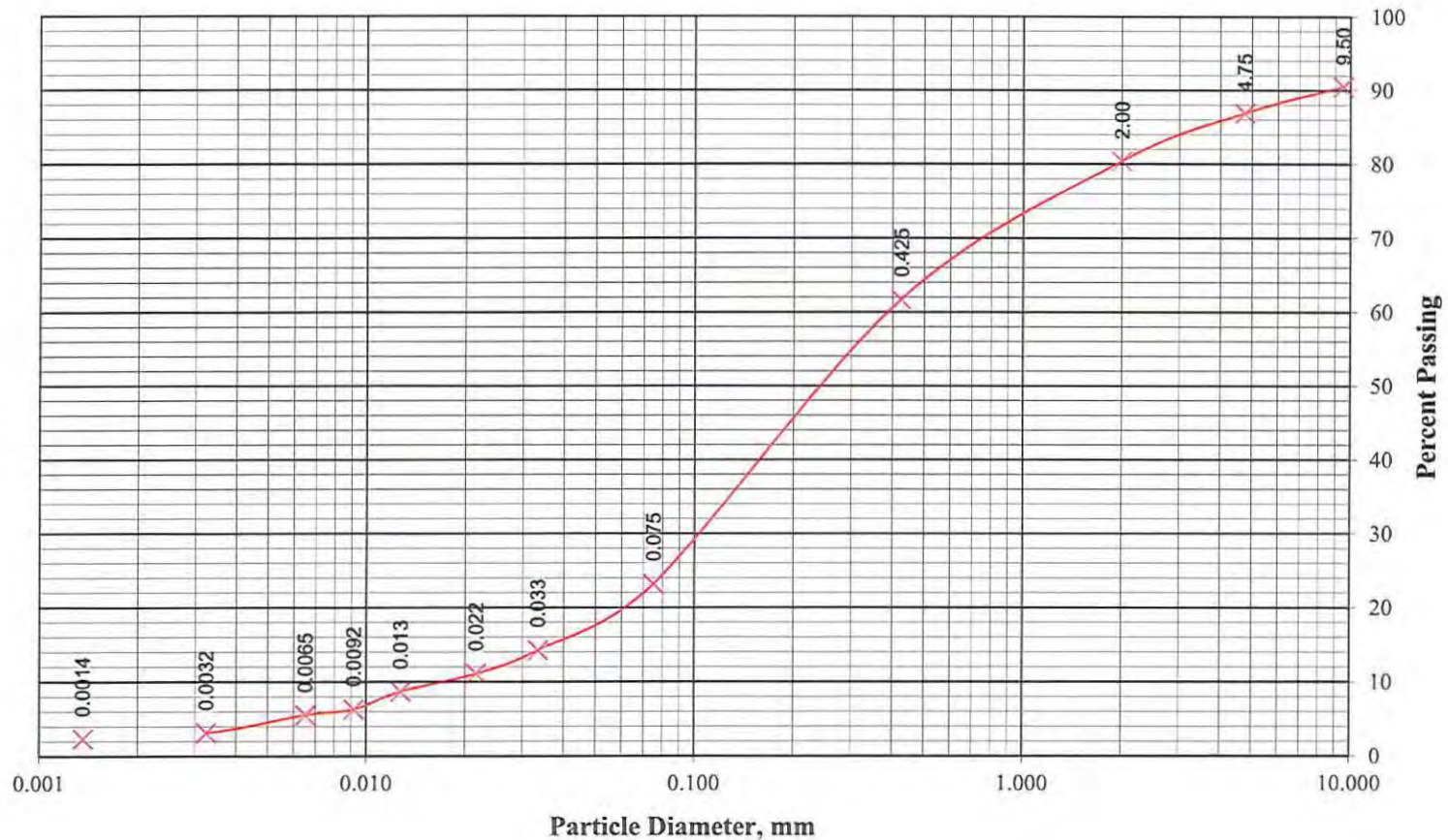
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-14-12-11	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-1067A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	12/14/2012	Sampled By:	Client
Date Tested:	12/21/2012-12/21/2012	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-14-12-12	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-1067B
Date Sampled:	12/14/2012	Sampled By:	Client
Date Tested:	12/18/2012	Tested By:	Jared Vassell

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-1067B	NSG-GCM-12-14-12-12	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	4.6	95.4	
19.0 mm	3/4"	1.1	94.3	
12.5 mm	1/2"	3.7	90.6	
6.3 mm	1/4"	4.2	86.4	
4.75 mm	#4	0.5	85.9	
2.00 mm	#10	3.3	82.6	
0.850 mm	#20	6.2	76.4	
0.600 mm	#30	3.8	72.6	
0.425 mm	#40	4.9	67.7	
0.150 mm	#100	19.8	47.9	
0.075 mm	#200	17.5	30.4	
Pan		30.4		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-14-12-12	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-1067B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	12/14/2012	Sampled By:	Client
Date Tested:	12/21/2012-12/21/2012	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	88.7	
#4	4.75	85.9	
#10	2.00	82.6	
#40	0.425	67.7	
#200	0.075	30.4	
Hydrometer Analysis Results	0.050	22.0	
	0.020	7.3	
	0.010	6.0	
	0.005	4.1	
	0.002	2.6	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	17.4%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	73.4%
Silt	(0.05 mm to 0.002 mm)	23.5%
Clay	(Less than 0.002 mm)	3.1%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Emily J. Rodriguez

REPORT REVIEWED BY: _____

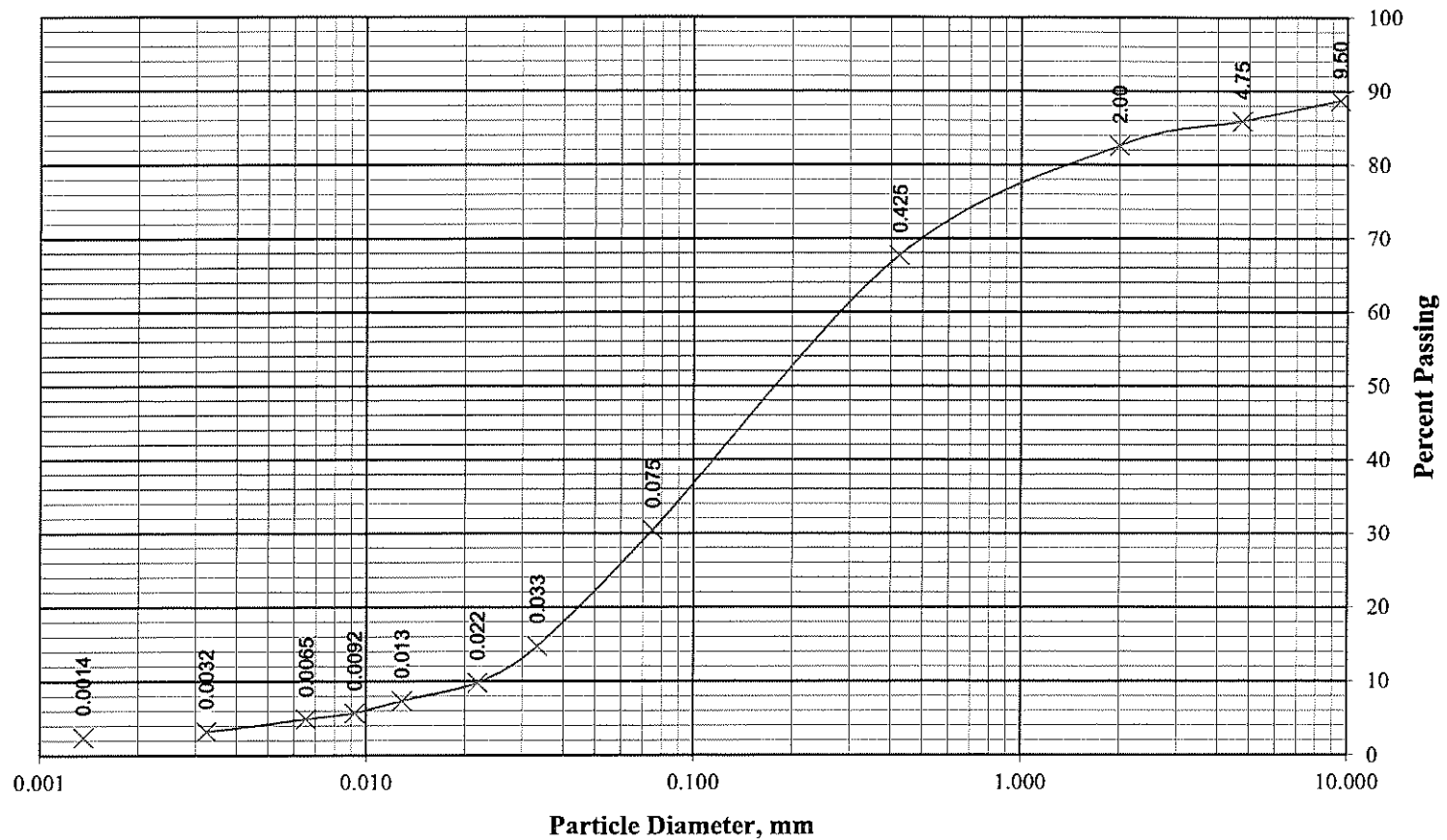
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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-GCM-12-14-12-12	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	12-1067B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	12/14/2012	Sampled By:	Client
Date Tested:	12/21/2012-12/21/2012	Tested By:	John Brinsfield



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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET <u>1</u> OF <u>1</u>	(PROPONENT: CEMP-CE)

Submittal 0023 -
D50 10-inch stone

<input checked="" type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	
4/8/13 Date	

Date:
Item: D50 = 10"
Plant: Lucia

4/5/2013

Technician: Joe Mahoney
Dom Massaro

Sieve Size	# Retained	% Retained	% Passing		SPEC
15"	0	0.00	100.00		100
14"	7	11.11	88.89		
13"	5	7.94	80.95		
12"	3	4.76	76.19		
11"	12	19.05	57.14		
10"	5	7.94	49.21		50
9"	9	14.29	34.92		
8"	9	14.29	20.63		
7"	6	9.52	11.11		
6"	7	11.11	0.00		
5"	0	0.00	0.00		0
Total	63	100.00			

[illegible]

REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1__ OF __1__	(PROPONENT: CEMP-CE)

Noted for Submittal #0024:

This material has slightly more gravel than recommended by the specification and therefore slightly less sand and/or silt/clay; however, review of the USCS Size Designations, indicates the percentage of gravel is still less than 25% and the percentage of silt/clay is still more than 16%. This material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
Signature 	
Date 4/20/13	

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 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-4-8-13-GCM-13	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0190A
Date Sampled:	4/8/2013	Sampled By:	Client
Date Tested:	4/10/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0190A	NSG-4-8-13-GCM-13	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	2.0	98.0	
19.0 mm	3/4"	1.3	96.7	
12.5 mm	1/2"	3.3	93.4	
6.3 mm	1/4"	7.1	86.3	
4.75 mm	#4	2.4	83.9	
2.00 mm	#10	8.1	75.8	
0.850 mm	#20	9.6	66.2	
0.600 mm	#30	4.2	62.0	
0.425 mm	#40	4.2	57.8	
0.150 mm	#100	20.8	37.0	
0.075 mm	#200	16.1	20.9	
Pan		20.9		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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 12960 Commerce Lake Drive, A14, Fort Myers, FL 33913
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-4-8-13-GCM-13	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0190A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	4/8/2013	Sampled By:	Client
Date Tested:	4/23/2013-04/20/2013	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: AASHTO T88

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	90.1	
#4	4.75	83.9	
#10	2.00	75.8	
#40	0.425	57.8	
#200	0.075	20.9	
Hydrometer Analysis Results	0.050	14.7	
	0.020	7.2	
	0.010	5.1	
	0.005	2.3	
	0.002	1.8	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	24.2%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	80.6%
Silt	(0.05 mm to 0.002 mm)	17.0%
Clay	(Less than 0.002 mm)	2.4%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

Emily J. Rodriguez

REPORT REVIEWED BY:

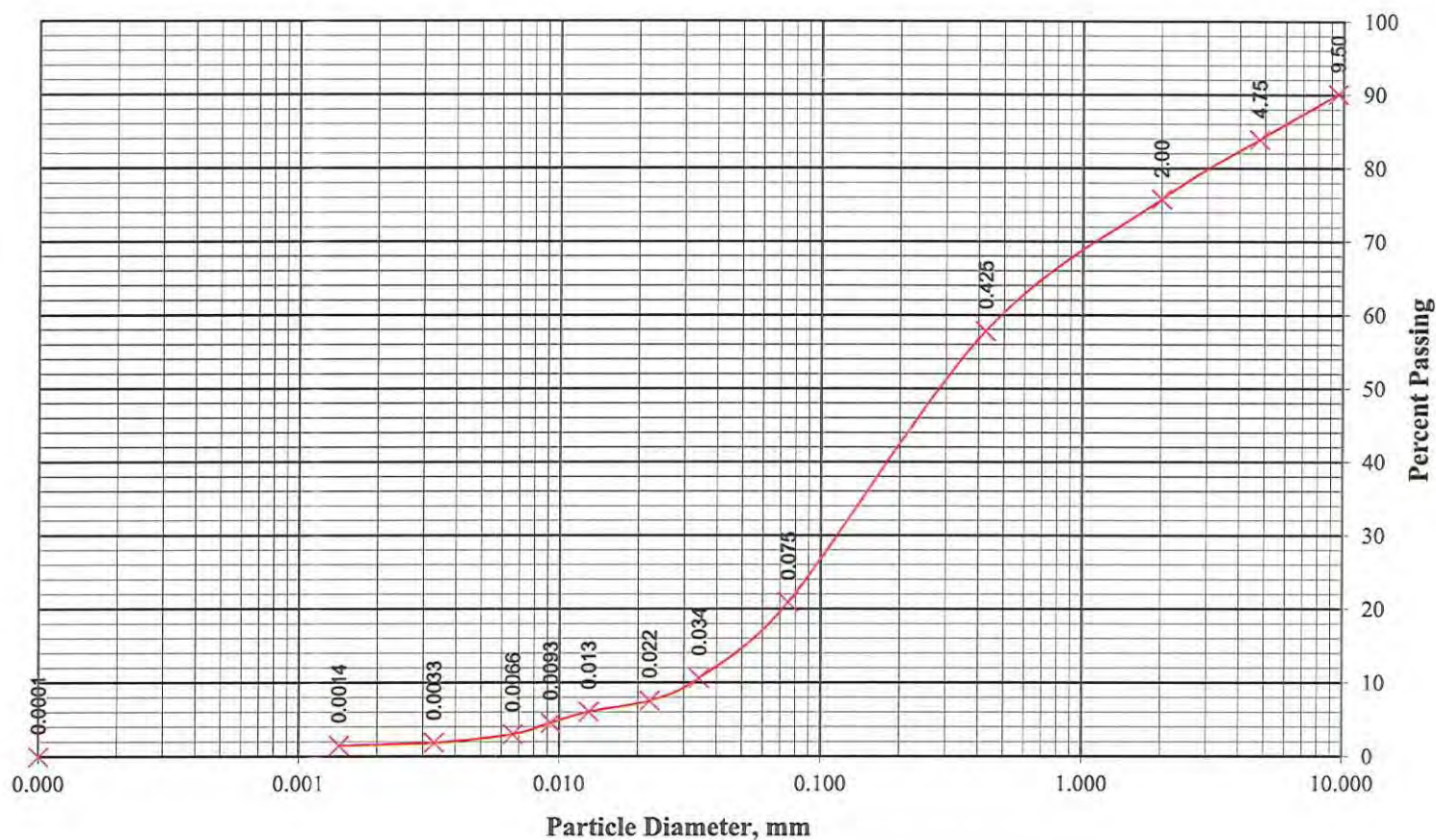
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 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-4-8-13-GCM-13	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0190A
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	4/8/2013	Sampled By:	Client
Date Tested:	4/23/2013-04/20/2013	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-4-8-13-GCM - 14	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0190B
Date Sampled:	4/8/2013	Sampled By:	Client
Date Tested:	4/10/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0190B	NSG-4-8-13-GCM	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.6	99.4	
19.0 mm	3/4"	1.7	97.7	
12.5 mm	1/2"	4.6	93.1	
6.3 mm	1/4"	6.8	86.3	
4.75 mm	#4	1.5	84.8	
2.00 mm	#10	8.7	76.1	
0.850 mm	#20	11.0	65.1	
0.600 mm	#30	4.5	60.6	
0.425 mm	#40	5.1	55.5	
0.150 mm	#100	21.5	34.0	
0.075 mm	#200	15.7	18.3	
Pan		18.3		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-4-8-13-GCM 14	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0190B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	4/8/2013	Sampled By:	Client
Date Tested:	4/23/2013-04/20/2013	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: AASHTO T88

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	90.4	
#4	4.75	84.8	
#10	2.00	76.1	
#40	0.425	55.5	
#200	0.075	18.3	
Hydrometer Analysis Results	0.050	12.6	
	0.020	6.5	
	0.010	4.3	
	0.005	3.6	
	0.002	2.2	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	23.9%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	83.4%
Silt	(0.05 mm to 0.002 mm)	13.7%
Clay	(Less than 0.002 mm)	2.9%
Total		100.0%
USDA Soil Textural Class		

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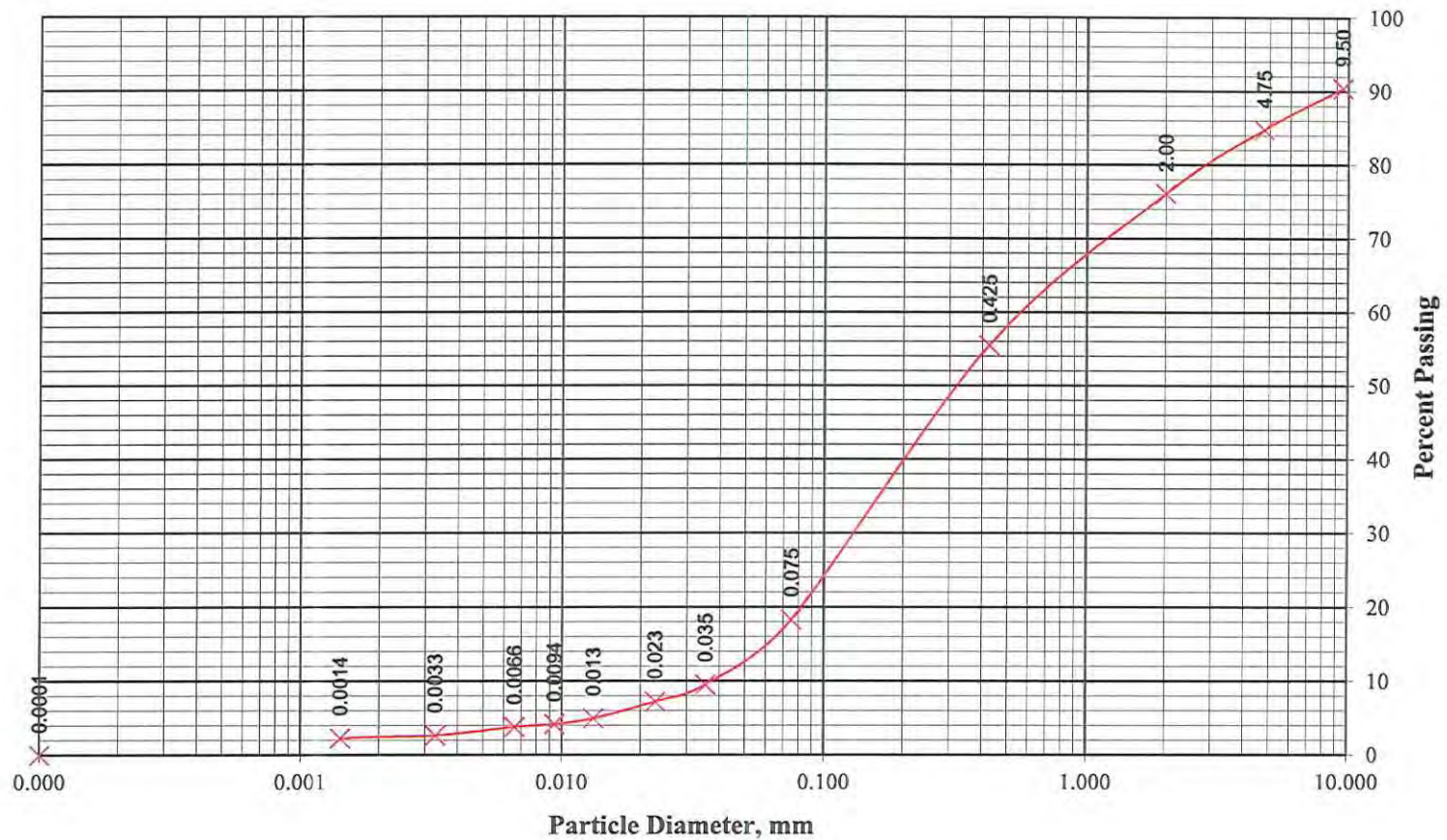
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-4-8-13-GCM 14	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0190B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	4/8/2013	Sampled By:	Client
Date Tested:	4/23/2013-04/20/2013	Tested By:	John Brinsfield



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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET _1_ OF _1_	(PROPONENT: CEMP-CE)

Noted for Submittal #0027 (compost grain size results):

The grain size results have been reviewed under the assumption that this material will be blended with dead sand material from Petricca Hinsdale Pit to create the capping material. Using USCS Size Designations, the calculated grain size of the blended material has slightly more sand and gravel than recommended by the specification and therefore slightly less silt/clay; however, this material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
	5/17/13
Signature	Date

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	CA-COMP-4-17-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0263
Date Sampled:	4/17/2013	Sampled By:	Client
Date Tested:	5/1/2013	Tested By:	Patrick Kiernan

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0263	CA-COMP-4-17-13-1	In-Place	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	3.4	96.6	
4.75 mm	#4	5.2	94.8	
2.00 mm	#10	24.0	76.0	
0.850 mm	#20	20.8	79.2	
0.600 mm	#30	7.9	92.1	
0.425 mm	#40	7.3	92.7	
0.150 mm	#100	18.9	81.1	
0.075 mm	#200	8.1	91.9	
Pan		4.4	95.6	

Comments:

Minus #200 by wash-sieve method.

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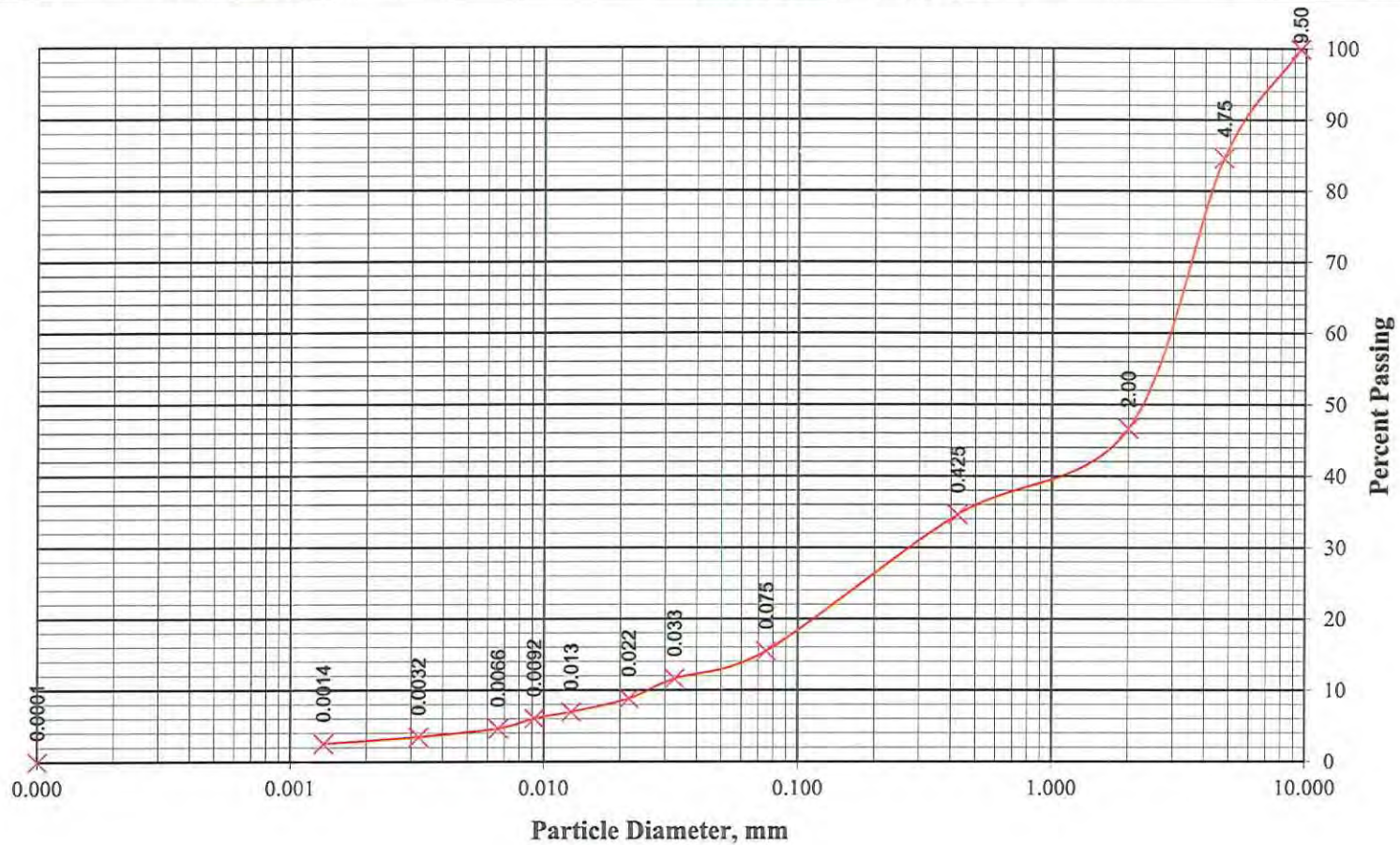
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	CA-COMP-4-17-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0263
Location:	In-Place	Item Number:	ASTM D422
Date Sampled:	4/17/2013	Sampled By:	Client
Date Tested:	5/10/2013-05/03/2013	Tested By:	John Brinsfield



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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	CA-COMP-4-17-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0263
Location:	In-Place	Item Number:	ASTM D422
Date Sampled:	4/17/2013	Sampled By:	Client
Date Tested:	5/10/2013-05/03/2013	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: ASTM D422

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	99.9	
#4	4.75	84.6	
#10	2.00	46.6	
#40	0.425	34.6	
#200	0.075	15.5	
Hydrometer Analysis Results	0.050	13.1	
	0.020	8.4	
	0.010	6.2	
	0.005	4.1	
	0.002	3.0	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	53.4%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	33.5%
Silt	(0.05 mm to 0.002 mm)	10.1%
Clay	(Less than 0.002 mm)	3.0%
Total		100.0%
USDA Soil Textural Class		Silt Loam

REPORT REVIEWED BY: _____

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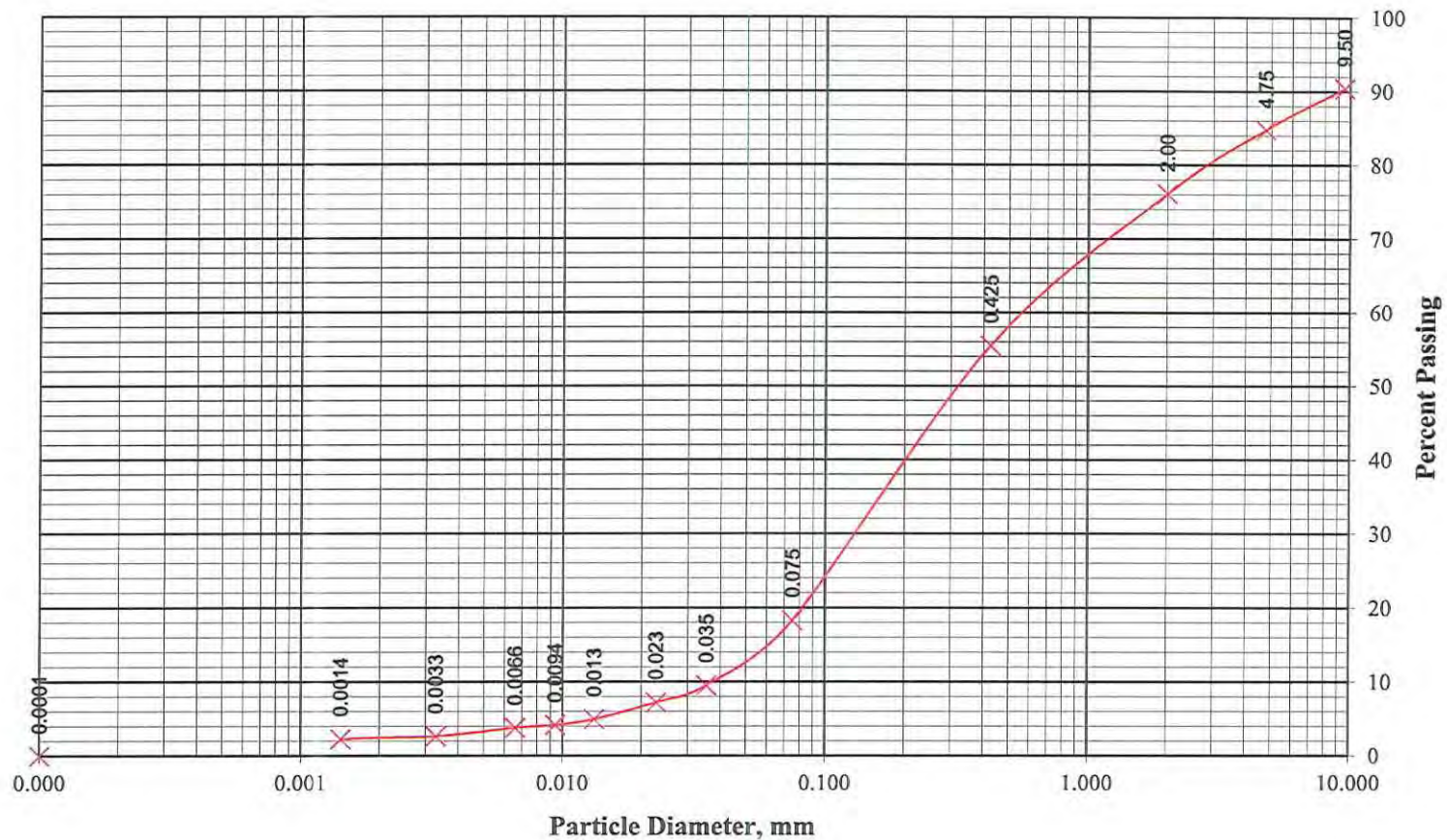
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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-4-8-13-GCM 14	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0190B
Location:	Stockpile	Item Number:	No Specifications Available
Date Sampled:	4/8/2013	Sampled By:	Client
Date Tested:	4/23/2013-04/20/2013	Tested By:	John Brinsfield



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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1__ OF __1__	(PROPONENT: CEMP-CE)

Noted for Submittal #0028 (dead sand grain size results):

The grain size results have been reviewed under the assumption that this material will be blended with compost material from Century Acquisitions to create the capping material. Using USCS Size Designations, the calculated grain size of the blended material has slightly more sand and gravel than recommended by the specification and therefore slightly less silt/clay; however, this material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	5/17/13 Date

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-05-02-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0291A
Date Sampled:	5/2/2013	Sampled By:	Client
Date Tested:	5/9/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0291A	PHP-SAND-05-02-13-1	Unknown	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	2.8	97.2	
4.75 mm	#4	2.0	95.2	
2.00 mm	#10	11.2	84.0	
0.850 mm	#20	22.5	61.5	
0.600 mm	#30	13.1	48.4	
0.425 mm	#40	15.1	33.3	
0.150 mm	#100	28.4	4.9	
0.075 mm	#200	2.9	2.0	
Pan		2.0		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-05-02-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0291A
Location:	Unknown	Item Number:	No Specifications Available
Date Sampled:	5/2/2013	Sampled By:	Client
Date Tested:	5/13/2013-05/11/2013	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD	
Test Method: AASHTO T88	

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	100.0	
#4	4.75	95.2	
#10	2.00	84.0	
#40	0.425	33.3	
#200	0.075	2.0	
Hydrometer Analysis Results	0.050	1.9	
	0.020	1.7	
	0.010	1.6	
	0.005	1.3	
	0.002	1.3	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)
DISPERSION METHOD: Mechanical, 1 min.
SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	16.0%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	82.1%
Silt	(0.05 mm to 0.002 mm)	0.6%
Clay	(Less than 0.002 mm)	1.3%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

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 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-05-02-13-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0291B
Date Sampled:	5/2/2013	Sampled By:	Client
Date Tested:	5/9/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0291B	PHP-SAND-05-02-13-2	Unknown	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	2.9	97.1	
4.75 mm	#4	2.5	94.6	
2.00 mm	#10	11.2	83.4	
0.850 mm	#20	21.5	61.9	
0.600 mm	#30	10.6	51.3	
0.425 mm	#40	11.9	39.4	
0.150 mm	#100	31.8	7.6	
0.075 mm	#200	4.8	2.8	
Pan		2.8		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-05-02-13-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0291B
Location:	Unknown	Item Number:	No Specifications Available
Date Sampled:	5/2/2013	Sampled By:	Client
Date Tested:	5/13/2013-05/11/2013	Tested By:	John Brinsfield

PARTICLE SIZE ANALYSIS BY SIEVE AND HYDROMETER METHOD

Test Method: AASHTO T88

Sieve Size	Particle Diameter, mm	Percent Passing	Specification
3/8"	9.50	100.0	
#4	4.75	94.6	
#10	2.00	83.4	
#40	0.425	39.4	
#200	0.075	3.8	
Hydrometer Analysis Results	0.050	2.9	
	0.020	2.1	
	0.010	2.1	
	0.005	1.2	
	0.002	1.2	
	0.001		

SOIL SPECIFIC GRAVITY: 2.67 (As reported separately, or estimated.)

DISPERSION METHOD: Mechanical, 1 min.

SAND & GRAVEL PARTICLES: Hard subrounded particles

Comments:

COMPOSITION SUMMARY (USDA SIZE DESIGNATIONS)		
Gravel	(3 inches to #10)	16.6%
Fraction Passing #10:		
Sand	(#10 to 0.05 mm)	80.5%
Silt	(0.05 mm to 0.002 mm)	1.7%
Clay	(Less than 0.002 mm)	1.2%
Total		100.0%
USDA Soil Textural Class		Loamy Sand

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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 (ER 415-1-10)		EDITION OF SEP 93 IS OBSOLETE SHEET _1_ OF _1_ (PROPONENT: CEMP-CE)	

Noted for Submittal no. 0029 (blended sand/topsoil grain size results: Using USCS Size Designations, the grain size of the blended material meets the specification of a silty sand with an approximate grain size distribution of 5% gravel, 75% sand, and 20% silt/clay and the material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	5/22/13 Date

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-05-08-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0305A
Date Sampled:	5/8/2013	Sampled By:	Client
Date Tested:	5/14/2013	Tested By:	Patrick Kiernan

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0305A	NSG-CM-05-08-13-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	3.9	96.1	
4.75 mm	#4	1.8	94.3	
2.00 mm	#10	5.0	89.3	
0.850 mm	#20	7.3	82.0	
0.600 mm	#30	4.6	77.4	
0.425 mm	#40	6.8	70.6	
0.150 mm	#100	38.5	32.1	
0.075 mm	#200	15.7	16.4	
Pan		16.4		

Comments:

Minus #200 by wash-sieve method.

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 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-05-08-13-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0305B
Date Sampled:	5/8/2013	Sampled By:	Client
Date Tested:	5/14/2013	Tested By:	Patrick Kiernan

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0305B	NSG-CM-05-08-13-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	2.3	97.7	
4.75 mm	#4	1.1	96.6	
2.00 mm	#10	4.5	92.1	
0.850 mm	#20	8.4	83.7	
0.600 mm	#30	4.9	78.8	
0.425 mm	#40	6.9	71.9	
0.150 mm	#100	38.1	33.8	
0.075 mm	#200	16.8	17.0	
Pan		17.0		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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25 Hathorn Road, Enfield, NH 03748
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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-05-08-13-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0305C
Date Sampled:	5/8/2013	Sampled By:	Client
Date Tested:	5/14/2013	Tested By:	Patrick Kiernan

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0305C	NSG-CM-05-08-13-3	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.2	99.8	
6.3 mm	1/4"	2.7	97.1	
4.75 mm	#4	1.7	95.4	
2.00 mm	#10	5.8	89.6	
0.850 mm	#20	8.3	81.3	
0.600 mm	#30	4.7	76.6	
0.425 mm	#40	6.4	70.2	
0.150 mm	#100	36.5	33.7	
0.075 mm	#200	16.8	16.9	
Pan		16.9		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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[illegible]

REMARKS					I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE) Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR				
SECTION II – APPROVAL ACTION									
ENCLOSURES RETURNED (List by Item No.)			NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY				DATE		
ENG FORM 4025-R, MAR 95 415-1-10)			(ER EDITION OF SEP 93 IS OBSOLETE SHEET __1_ OF __1_			(PROPONENT: CEMP-CE)			

Noted for Submittal no. 0030 (blended sand/topsoil grain size results):
 Using USCS Size Designations, the grain size of the blended material meets the specification of a silty sand with an approximate grain size distribution of 5% gravel, 75% sand, and 20% silt/clay and the material is considered acceptable for its intended use.

☐ REVIEWED
☒ REVIEWED & NOTED
☐ REVISE & RESUBMIT

☐ REJECTED
☐ For information only
☐ Received, no action taken

Reviewed solely for general conformance with contract documents

ARCADIS of New York, Inc.


 Signature

5/24/13
 Date

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-05-13-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0333A
Date Sampled:	5/13/2013	Sampled By:	Client
Date Tested:	5/17/2013	Tested By:	Patrick Kiernan

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0333A	NSG-CM-05-13-13-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	4.6	95.4	
4.75 mm	#4	1.8	93.6	
2.00 mm	#10	6.8	86.8	
0.850 mm	#20	9.0	77.8	
0.600 mm	#30	5.1	72.7	
0.425 mm	#40	6.8	65.9	
0.150 mm	#100	33.5	32.4	
0.075 mm	#200	14.7	17.7	
Pan		17.7		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-05-13-13-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0333B
Date Sampled:	5/13/2013	Sampled By:	Client
Date Tested:	5/17/2013	Tested By:	Patrick Kiernan

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0333B	NSG-CM-05-13-13-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.2	99.8	
6.3 mm	1/4"	2.9	96.9	
4.75 mm	#4	0.5	96.4	
2.00 mm	#10	4.4	92.0	
0.850 mm	#20	9.4	82.6	
0.600 mm	#30	4.9	77.7	
0.425 mm	#40	6.5	71.2	
0.150 mm	#100	34.3	36.9	
0.075 mm	#200	17.2	19.7	
Pan		19.7		

Comments:

Minus #200 by wash-sieve method.

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-05-13-13-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0333C
Date Sampled:	5/13/2013	Sampled By:	Client
Date Tested:	5/17/2013	Tested By:	Patrick Kiernan

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0333C	NSG-CM-05-13-13-3	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	1.7	98.3	
4.75 mm	#4	1.5	96.8	
2.00 mm	#10	5.1	91.7	
0.850 mm	#20	10.0	81.7	
0.600 mm	#30	5.8	75.9	
0.425 mm	#40	6.9	69.0	
0.150 mm	#100	34.2	34.8	
0.075 mm	#200	16.4	18.4	
Pan		18.4		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM -05-17-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0342A
Date Sampled:	5/17/2013	Sampled By:	Client
Date Tested:	5/21/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0342A	NSG-CM- -05-17-13-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	1.7	98.3	
4.75 mm	#4	1.9	96.4	
2.00 mm	#10	4.0	92.4	
0.850 mm	#20	7.8	84.6	
0.600 mm	#30	4.6	80.0	
0.425 mm	#40	6.5	73.5	
0.150 mm	#100	37.5	36.0	
0.075 mm	#200	17.2	18.8	
Pan		18.8		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM- 05-17-13-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	f13-0342B
Date Sampled:	5/17/2013	Sampled By:	Client
Date Tested:	5/21/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
f13-0342B	NSG-CM- 05-17-13-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	4.0	96.0	
4.75 mm	#4	1.9	94.1	
2.00 mm	#10	6.5	87.6	
0.850 mm	#20	10.5	77.1	
0.600 mm	#30	5.4	71.7	
0.425 mm	#40	6.4	65.3	
0.150 mm	#100	29.9	35.4	
0.075 mm	#200	15.4	20.0	
Pan		20.0		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM- 05-17-13-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0342C
Date Sampled:	5/17/2013	Sampled By:	Client
Date Tested:	5/21/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0342C	NSG-CM- 05-17-13-3	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.4	99.6	
6.3 mm	1/4"	5.2	94.4	
4.75 mm	#4	2.8	91.6	
2.00 mm	#10	8.3	83.3	
0.850 mm	#20	10.0	73.3	
0.600 mm	#30	4.2	69.1	
0.425 mm	#40	5.6	63.5	
0.150 mm	#100	30.4	33.1	
0.075 mm	#200	15.8	17.3	
Pan		17.3		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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[illegible]

REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1_ OF __1_	(PROPONENT; CEMP-CE)

Noted for Submittal #0031 (dead sand grain size results):
The grain size results have been reviewed (using USCS Size Designations) under the assumption that this material will be blended with compost material from Century Acquisitions to create the capping material.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
	5/29/13
Signature	Date

Advance Testing

3348 Route 208, Campbell Hall, NY 10916
 Phone: 845-496-1600 Fax: 845-496-1398
 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-05-20-13-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0343C
Date Sampled:	5/17/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0343C	PHP-SAND-05-20-13-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	5.5	94.5	
4.75 mm	#4	1.8	92.7	
2.00 mm	#10	8.9	83.8	
0.850 mm	#20	9.1	74.7	
0.600 mm	#30	5.4	69.3	
0.425 mm	#40	6.9	62.4	
0.150 mm	#100	37.9	24.5	
0.075 mm	#200	18.1	6.4	
Pan		6.4		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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 1813 State Route 7, Harpursville, NY 13787

Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-05-20-13-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0343D
Date Sampled:	5/17/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0343D	PHP-SAND-05-20-13-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	7.9	92.1	
4.75 mm	#4	3.3	88.8	
2.00 mm	#10	10.1	78.7	
0.850 mm	#20	11.0	67.7	
0.600 mm	#30	5.4	62.3	
0.425 mm	#40	6.7	55.6	
0.150 mm	#100	33.7	21.9	
0.075 mm	#200	15.2	6.7	
Pan		6.7		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-05-20-13-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0343E
Date Sampled:	5/17/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0343E	PHP-SAND-05-20-13-3	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	5.9	94.1	
4.75 mm	#4	2.6	91.5	
2.00 mm	#10	8.7	82.8	
0.850 mm	#20	13.7	69.1	
0.600 mm	#30	5.6	63.5	
0.425 mm	#40	6.7	56.8	
0.150 mm	#100	34.4	22.4	
0.075 mm	#200	15.1	7.3	
Pan		7.3		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-Sand-052213-1	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0360G
Date Sampled:	5/22/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0360G	PHP-Sand-052213-1	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	5.8	94.2	
4.75 mm	#4	3.0	91.2	
2.00 mm	#10	9.1	82.1	
0.850 mm	#20	14.6	67.5	
0.600 mm	#30	6.2	61.3	
0.425 mm	#40	7.6	53.7	
0.150 mm	#100	32.0	21.7	
0.075 mm	#200	14.3	7.4	
Pan		7.4		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-Sand-052213-2	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0360H
Date Sampled:	5/22/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0360H	PHP-Sand-052213-2	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.6	99.4	
6.3 mm	1/4"	4.9	94.5	
4.75 mm	#4	3.6	90.9	
2.00 mm	#10	14.2	76.7	
0.850 mm	#20	21.5	55.2	
0.600 mm	#30	9.3	45.9	
0.425 mm	#40	9.2	36.7	
0.150 mm	#100	23.0	13.7	
0.075 mm	#200	7.1	6.6	
Pan		6.6		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-Sand-052213-3	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0360I
Date Sampled:	5/22/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0360I	PHP-Sand-052213-3	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	2.1	97.9	
4.75 mm	#4	2.8	95.1	
2.00 mm	#10	5.8	89.3	
0.850 mm	#20	11.0	78.3	
0.600 mm	#30	6.8	71.5	
0.425 mm	#40	9.9	61.6	
0.150 mm	#100	36.8	24.8	
0.075 mm	#200	15.1	9.7	
Pan		9.7		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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[illegible]

REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II - APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1_ OF __1_	(PROPONENT: CEMP-CE)

Noted for Submittal #0033 (dead sand grain size results):
The grain size results have been reviewed (using USCS Size Designations) under the assumption that this material will be blended with compost material from Century Acquisitions to create the capping material.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	
6/3/13 Date	

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-052813-9	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0373A
Date Sampled:	5/28/2013	Sampled By:	Client
Date Tested:	5/30/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0373A	PHP-SAND-052813-9	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	5.0	95.0	
4.75 mm	#4	2.9	92.1	
2.00 mm	#10	9.9	82.2	
0.850 mm	#20	16.3	65.9	
0.600 mm	#30	7.1	58.8	
0.425 mm	#40	8.5	50.3	
0.150 mm	#100	30.5	19.8	
0.075 mm	#200	12.5	7.3	
Pan		7.3		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-052813-10	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0373B
Date Sampled:	5/28/2013	Sampled By:	Client
Date Tested:	5/30/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0373B	PHP-SAND-052813-10	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	6.0	94.0	
4.75 mm	#4	4.7	89.3	
2.00 mm	#10	13.6	75.7	
0.850 mm	#20	19.3	56.4	
0.600 mm	#30	9.0	47.4	
0.425 mm	#40	8.9	38.5	
0.150 mm	#100	24.8	13.7	
0.075 mm	#200	7.6	6.1	
Pan		6.1		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-052813-11	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0373C
Date Sampled:	5/28/2013	Sampled By:	Client
Date Tested:	5/30/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0373C	PHP-SAND-052813-11	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	8.0	92.0	
4.75 mm	#4	4.8	87.2	
2.00 mm	#10	17.1	70.1	
0.850 mm	#20	24.2	45.9	
0.600 mm	#30	10.3	35.6	
0.425 mm	#40	8.7	26.9	
0.150 mm	#100	18.5	8.4	
0.075 mm	#200	4.7	3.7	
Pan		3.7		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-SAND-052813-12	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0373D
Date Sampled:	5/28/2013	Sampled By:	Client
Date Tested:	5/30/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0373D	PHP-SAND-052813-12	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	6.2	93.8	
4.75 mm	#4	3.6	90.2	
2.00 mm	#10	13.9	76.3	
0.850 mm	#20	24.6	51.7	
0.600 mm	#30	10.6	41.1	
0.425 mm	#40	10.7	30.4	
0.150 mm	#100	21.4	9.0	
0.075 mm	#200	5.2	3.8	
Pan		3.8		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1_ OF __1_	(PROPONENT: CEMP-CE)

Noted for Submittal #0034 (dead sand grain size results and blended sand/topsoil grain size results):

- The grain size results for the dead sand have been reviewed (using USCS Size Designations) under the assumption that this material will be blended with compost material from Century Acquisitions to create the capping material.
- The grain size results for the blended sand/topsoil material indicate the material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
	6/3/13
Signature	Date

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-Sand-053013-13	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0383E
Date Sampled:	5/30/2013	Sampled By:	Client
Date Tested:	5/31/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0383E	PHP-Sand-053013-13	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	6.3	93.7	
4.75 mm	#4	3.0	90.7	
2.00 mm	#10	15.5	75.2	
0.850 mm	#20	26.0	49.2	
0.600 mm	#30	10.2	39.0	
0.425 mm	#40	9.3	29.7	
0.150 mm	#100	22.5	7.2	
0.075 mm	#200	4.6	2.6	
Pan		2.6		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	PHP-Sand-053013-14	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0383F
Date Sampled:	5/30/2013	Sampled By:	Client
Date Tested:	5/31/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0383F	PHP-Sand-053013-14	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	5.8	94.2	
4.75 mm	#4	5.4	88.8	
2.00 mm	#10	16.8	72.0	
0.850 mm	#20	20.7	51.3	
0.600 mm	#30	8.9	42.4	
0.425 mm	#40	9.2	33.2	
0.150 mm	#100	23.9	9.3	
0.075 mm	#200	6.0	3.3	
Pan		3.3		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-053013-13	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0383G
Date Sampled:	5/30/2013	Sampled By:	Client
Date Tested:	5/31/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0383G	NSG-CM-053013-13	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	2.5	97.5	
4.75 mm	#4	1.5	96.0	
2.00 mm	#10	5.1	90.9	
0.850 mm	#20	7.7	83.2	
0.600 mm	#30	4.7	78.5	
0.425 mm	#40	6.6	71.9	
0.150 mm	#100	36.9	35.0	
0.075 mm	#200	17.2	17.8	
Pan		17.8		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1_ OF __1_	(PROPONENT: CEMP-CE)

Noted for Submittal #0035 (blended sand/topsoil grain size results):
The grain size results for the blended sand/topsoil material indicate the material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
 Signature	6/3/13 Date

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-05-17-13-4	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0343A
Date Sampled:	5/17/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0343A	NSG-CM-05-17-13-4	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.3	99.7	
6.3 mm	1/4"	3.8	95.9	
4.75 mm	#4	1.5	94.4	
2.00 mm	#10	5.4	89.0	
0.850 mm	#20	10.3	78.7	
0.600 mm	#30	4.9	73.8	
0.425 mm	#40	6.5	67.3	
0.150 mm	#100	33.1	34.2	
0.075 mm	#200	16.2	18.0	
Pan		18.0		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-05-17-13-5	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0343B
Date Sampled:	5/17/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0343B	NSG-CM-05-17-13-5	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.2	99.8	
6.3 mm	1/4"	4.9	94.9	
4.75 mm	#4	1.1	93.8	
2.00 mm	#10	5.0	88.8	
0.850 mm	#20	7.5	81.3	
0.600 mm	#30	4.5	76.8	
0.425 mm	#40	6.3	70.5	
0.150 mm	#100	32.9	37.6	
0.075 mm	#200	17.6	20.0	
Pan		20.0		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-052213-12	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0360A
Date Sampled:	5/22/2013	Sampled By:	Client
Date Tested:	5/24/2013	Tested By:	John Brinsfield

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0360A	NSG-CM-052213-12	Stockpile	

Sieve Size		%	%	Spec. %
mm	Inches	Retained	Passing	Pass
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	2.5	97.5	
4.75 mm	#4	2.3	95.2	
2.00 mm	#10	8.4	86.8	
0.850 mm	#20	9.5	77.3	
0.600 mm	#30	4.5	72.8	
0.425 mm	#40	5.8	67.0	
0.150 mm	#100	30.6	36.4	
0.075 mm	#200	16.2	20.2	
Pan		20.2		

Comments:

Minus #200 by wash-sieve method.

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[illegible]

REMARKS					I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE) Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR				
SECTION II – APPROVAL ACTION									
ENCLOSURES RETURNED (List by Item No.)			NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY				DATE		
ENG FORM 4025-R, MAR 95 415-1-10)			(ER EDITION OF SEP 93 IS OBSOLETE SHEET _1_ OF _1_			(PROPONENT: CEMP-CE)			

Noted for Submittal #0037 (blended sand/topsoil grain size results):
 The grain size results for the blended sand/topsoil material indicate the material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents ARCADIS of New York, Inc.  Signature	
6/7/13 Date	

Advance Testing

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-060313-14	Project Number:	120458
Source:	Sevenson Environmental Services	Lab Number:	13-0398B
Date Sampled:	6/3/2013	Sampled By:	Client
Date Tested:	6/6/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0398B	NSG-CM-060313-14	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.9	99.1	
6.3 mm	1/4"	3.3	95.8	
4.75 mm	#4	1.5	94.3	
2.00 mm	#10	7.1	87.2	
0.850 mm	#20	8.5	78.7	
0.600 mm	#30	4.1	74.6	
0.425 mm	#40	5.6	69.0	
0.150 mm	#100	27.7	41.3	
0.075 mm	#200	15.7	25.6	
Pan		25.6		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-060313-15	Project Number:	120458
Source:	Sevenson Environmental Services	Lab Number:	13-0398C
Date Sampled:	6/3/2013	Sampled By:	Client
Date Tested:	6/6/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0398C	NSG-CM-060313-15	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.5	99.5	
6.3 mm	1/4"	8.7	90.8	
4.75 mm	#4	5.8	85.0	
2.00 mm	#10	9.6	75.4	
0.850 mm	#20	6.5	68.9	
0.600 mm	#30	3.6	65.3	
0.425 mm	#40	5.1	60.2	
0.150 mm	#100	27.5	32.7	
0.075 mm	#200	15.1	17.6	
Pan		17.6		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-060413-16	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0401A
Date Sampled:	6/4/2013	Sampled By:	Client
Date Tested:	6/6/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0401A	NSG-CM-060413-16	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	1.6	98.4	
6.3 mm	1/4"	3.4	95.0	
4.75 mm	#4	2.3	92.7	
2.00 mm	#10	6.5	86.2	
0.850 mm	#20	9.0	77.2	
0.600 mm	#30	4.9	72.3	
0.425 mm	#40	6.7	65.6	
0.150 mm	#100	32.0	33.6	
0.075 mm	#200	15.6	18.0	
Pan		18.0		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-060413-17	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0401B
Date Sampled:	6/4/2013	Sampled By:	Client
Date Tested:	6/6/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0401B	NSG-CM-060413-17	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.3	99.7	
6.3 mm	1/4"	4.1	95.6	
4.75 mm	#4	2.3	93.3	
2.00 mm	#10	6.2	87.1	
0.850 mm	#20	7.4	79.7	
0.600 mm	#30	4.6	75.1	
0.425 mm	#40	6.6	68.5	
0.150 mm	#100	33.6	34.9	
0.075 mm	#200	16.8	18.1	
Pan		18.1		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-060413-18	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0401C
Date Sampled:	6/4/2013	Sampled By:	Client
Date Tested:	6/6/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0401C	NSG-CM-060413-18	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.4	99.6	
12.5 mm	1/2"	0.5	99.1	
6.3 mm	1/4"	3.6	95.5	
4.75 mm	#4	1.0	94.5	
2.00 mm	#10	5.7	88.8	
0.850 mm	#20	8.3	80.5	
0.600 mm	#30	4.8	75.7	
0.425 mm	#40	7.1	68.6	
0.150 mm	#100	34.0	34.6	
0.075 mm	#200	16.1	18.5	
Pan		18.5		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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[illegible]

REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II - APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET __1_ OF __1_	(PROPONENT: CEMP-CE)

Noted for Submittal #0038 (blended sand/topsoil grain size results):
The grain size results for the blended sand/topsoil material indicate the material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
Signature 	
Date 6/11/13	

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-060613-19	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0412A
Date Sampled:	6/6/2013	Sampled By:	Client
Date Tested:	6/10/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0412A	NSG-CM-060613-19	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.3	99.7	
6.3 mm	1/4"	5.4	94.3	
4.75 mm	#4	2.4	91.9	
2.00 mm	#10	7.3	84.6	
0.850 mm	#20	8.6	76.0	
0.600 mm	#30	5.0	71.0	
0.425 mm	#40	6.7	64.3	
0.150 mm	#100	31.1	33.2	
0.075 mm	#200	15.2	18.0	
Pan		18.0		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

Emily J. Rodriguez

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-060613-20	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0412B
Date Sampled:	6/6/2013	Sampled By:	Client
Date Tested:	6/10/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0412B	NSG-CM-060613-20	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.5	99.5	
6.3 mm	1/4"	4.6	94.9	
4.75 mm	#4	2.5	92.4	
2.00 mm	#10	6.3	86.1	
0.850 mm	#20	9.1	77.0	
0.600 mm	#30	5.5	71.5	
0.425 mm	#40	7.4	64.1	
0.150 mm	#100	31.7	32.4	
0.075 mm	#200	14.9	17.5	
Pan		17.5		

Comments:

Minus #200 by wash-sieve method.

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-060613-21	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0412C
Date Sampled:	6/6/2013	Sampled By:	Client
Date Tested:	6/10/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0412C	NSG-CM-060613-21	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.1	99.9	
6.3 mm	1/4"	1.6	98.3	
4.75 mm	#4	1.5	96.8	
2.00 mm	#10	4.9	91.9	
0.850 mm	#20	6.9	85.0	
0.600 mm	#30	4.6	80.4	
0.425 mm	#40	6.9	73.5	
0.150 mm	#100	36.2	37.3	
0.075 mm	#200	18.4	18.9	
Pan		18.9		

Comments:

Minus #200 by wash-sieve method.

Report Reviewed By:

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REMARKS		I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Name (TITLE)	
		Michael W. Muth - Project Manager NAME AND SIGNATURE OF CONTRACTOR	
SECTION II – APPROVAL ACTION			
ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY		DATE
ENG FORM 4025-R, MAR 95 415-1-10)	(ER	EDITION OF SEP 93 IS OBSOLETE SHEET <u>1</u> OF <u>1</u>	(PROPONENT: CEMP-CE)

Noted for Submittal #0039 (blended sand/topsoil grain size results):
The grain size results for the blended sand/topsoil material indicate the material is considered acceptable for its intended use.

<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken
Reviewed solely for general conformance with contract documents	
ARCADIS of New York, Inc.	
	2/19/13
Signature	Date

Advance Testing

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-061213-22	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0441A
Date Sampled:	6/12/2013	Sampled By:	Client
Date Tested:	6/18/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0441A	NSG-CM-061213-22	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.0	100.0	
6.3 mm	1/4"	1.6	98.4	
4.75 mm	#4	2.0	96.4	
2.00 mm	#10	5.4	91.0	
0.850 mm	#20	8.5	82.5	
0.600 mm	#30	4.5	78.0	
0.425 mm	#40	6.5	71.5	
0.150 mm	#100	35.4	36.1	
0.075 mm	#200	18.2	17.9	
Pan		17.9		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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Client:	Sevenson Environmental Services Inc.	Project:	Silver Lake Removal Action
Item:	NSG-CM-061213-23	Project Number:	120458
Source:	Sevenson Environmental	Lab Number:	13-0441B
Date Sampled:	6/12/2013	Sampled By:	Client
Date Tested:	6/17/2013	Tested By:	Sean Williams

GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE

Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
13-0441B	NSG-CM-061213-23	Stockpile	

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
100.0 mm	4"	0.0	100.0	
75.0 mm	3"	0.0	100.0	
63.0 mm	2 1/2"	0.0	100.0	
50.0 mm	2"	0.0	100.0	
37.5 mm	1 1/2"	0.0	100.0	
25.0 mm	1"	0.0	100.0	
19.0 mm	3/4"	0.0	100.0	
12.5 mm	1/2"	0.7	99.3	
6.3 mm	1/4"	3.5	95.8	
4.75 mm	#4	2.8	93.0	
2.00 mm	#10	5.9	87.1	
0.850 mm	#20	8.5	78.6	
0.600 mm	#30	3.9	74.7	
0.425 mm	#40	5.7	69.0	
0.150 mm	#100	33.1	35.9	
0.075 mm	#200	17.1	18.8	
Pan		18.8		

Comments:

Minus #200 by wash-sieve method.

Emily J. Rodriguez

Report Reviewed By:

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