

APPENDIX C

TEST PIT LOGS

LOG OF TEST PIT LSB-31

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/27/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.11	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First N/A 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion -- 
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.1	3" ASPHALT	0			Collect sample LSB-31-A from 0'-2' @ 15:23
	+573.8	Brown-gray m-c SAND, sm. f-gravel, tr. c-gravel, tr. fill (brick) (dry)	1	S-1 (MS/MSD)	GRAB	
		Grey m-c SAND, sm. f-c gravel, tr. fill (slag) (moist)	2			Collect sample LSB-31-B from 2'-4' @ 14:46
			3	S-2	GRAB	
	+570.1	Grey-red CLAY, sm. f-gravel, tr. silt, (moist)	4			Perched water observed @ 2-3'
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
	+564.1	End of Test Pit @ 10'	14			
			15			

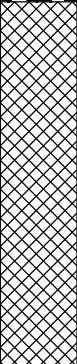
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LOG OF TEST PIT LSB-33

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/27/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 575.3	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First N/A ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN LANGAN PERSONNEL Hannah Griesbach	WATER LEVEL - Completion N/A ▼

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+575.3	6" TOPSOIL, Brown f-c SAND	0			Collect sample LSB-33-A from 0'-2' @ 17:00
	+574.8	Brown f-c SAND, sm. f-c gravel, tr. c-gravel, tr. fill (bricks), tr. organic material, tr. silt (dry)	1	S-1	GRAB	
		Gray m-c SAND, sm. f-c gravel, tr. organic material (dry)	2			
			3			
	+571.3	Black CLAY, sm. silt (dry) Grey-red CLAY, tr. silt, tr. f-gravel (dry)	4			Collect sample LSB-33-B from 4'-6' @ 16:36
			5	S-2	GRAB	
			6			
			7			
			8			
			9			
	+565.3	End of Test Pit @ 10'	10			
			11			
			12			
			13			
			14			
			15			

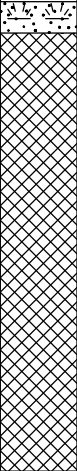
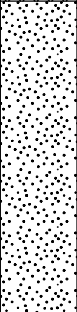
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LOG OF TEST PIT LSB-37

Sheet 1 of 1

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PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/28/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el.			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 10 ft		WATER LEVEL - First N/A ▽	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion N/A ▼	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
		TOPSOIL		0			Soft dig from 0'-X'
		Brown f-c SAND, tr. organics (roots) (dry)		1			
		Dark brown f-c SAND, sm. fill (bricks, concrete, plastic, metal, wood), tr. organics (roots), tr. silt (moist)	0.9	2			
				3			
		Gray f-m SAND, tr. clay (moist)	0	5			Collect sample LSB-37-A from 5'-7' @ 09:55
				6	S-1	GRAB	
				7			
				8			
		Reddish brown CLAY, tr. f-sand (moist)		9	S-2	GRAB	Collect sample LSB-37-B from 8'-10' @ 10:10
				10			
				11			
				12			
		End of Test Pit @ 10'		13			
				14			
				15			

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LOG OF TEST PIT LSB-38

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/28/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.16	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 8 ft	WATER LEVEL - First 5 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion -- ▼
		LANGAN PERSONNEL Alison Corriveau

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+574.2	TOPSOIL	0	0	S-1	GRAB	Collect sample LSB-38-A from 0'-2' @ 13:00
	+573.9	Brown c-f SAND, tr. clay, tr. organics (roots) (dry)		1			
				2	S-2	GRAB	Collect sample LSB-38-B from 2'-4' @ 13:10
		Dark brown-black c-f SAND, sm. fill (brick, concrete slab, wood) (wet)		3			
				4			Perched water observed @ 4'
				5			Slight sheen observed @ 5', White foam material observed @ 5'
		Gray f-m SAND (wet)		6			
				7			
				8			
				9			
	+566.2	End of Test Pit @ 8'		10			
				11			
				12			
				13			
				14			
				15			

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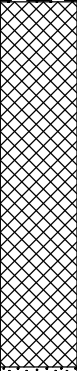
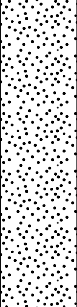
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LOG OF TEST PIT LSB-39

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/3/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 575.18	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First N/A
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A
		LANGAN PERSONNEL Alison Corriveau

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+575.2	TOPSOIL	0			
	+574.7	Brown f-c SAND, tr. f-gravel, sm. fill (brick, wood, metal, rebar)	1			
		Reddish-brown CLAY, sm. fill	2			
		Dark brown-black organic FILL	3			Collect sample LSB-39-A from 3'-5' @ 8:20
	+571.2	Gray f-m SAND (moist)	4	S-1	GRAB	
			5			
			6			Collect sample LSB-39-B from 6'-8' @ 8:30
	+568.2	Reddish-brown CLAY (dense)	7	S-2	GRAB	
			8			
			9			
	+565.2	End of Test Pit @ 10'	10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LSB-44

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/3/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.45	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 8 ft	WATER LEVEL - First N/A 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A 
		LANGAN PERSONNEL Alison Corriveau

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.5	TOPSOIL	0			
	+573.5	Brown f-c SAND, sm. fill (rocks, conc), tr. f-gravel	1			Collect sample LSB-44-A from 1'-3' @ 9:30
			2	S-1	GRAB	
		Grayish-brown CLAY, sm. silt	3			
		Dark brown-black organic FILL	4			
	+570.0	Gray SILTY CLAY, sm. f-m sand (moist)	5			Collect sample LSB-44-B from 5'-7' @ 9:40
			6	S-2	GRAB	
			7			
	+567.5	Reddish-brown CLAY	7			
	+566.5	End of Test Pit @ 8'	8			Perched GW @ 8'
			9			
			10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LSB-45

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/2/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 575.49	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 8.8 ft	WATER LEVEL - First N/A 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A 
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+575.5	TOPSOIL	0			Collect sample LSB-45-A from 1.1'-3.3' @ 18:45
	+575.2	FILL (construction debris, bricks), Gray-reddish brown f-c SAND, sm. silt, sm. f-c gravel	1			
	+574.0	Red TILL, sm. m-c sand, sm. f-c gravel, tr. silt	2	S-1	GRAB	
	+572.2	Black CLAY, sm. silt, tr. f-sand	3			
		Gray-red CLAY, sm. f-sand, tr. silt, tr. f-gravel	4	S-2	GRAB	Collect sample LSB-45-B from 3.3'-4.3' @ 18:30
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
	+566.7	End of Test Pit @ 8.8'	14			
			15			

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LOG OF TEST PIT LSB-50

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/1/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.65	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First 8 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL Hanna Griesbach

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.7	TOPSOIL	0			
	+574.4	Brown-black c-f SAND, sm. fill (slag, bricks) sm. f-c gravel (dry)	1			
			2			Collect sample LSB-50-A from 2'-4' @ 18:24
		Brown-black m-c SAND (dry)	3			
	+571.7	Gray-red CLAY, sm. silt, sm. f-sand, tr. f-gravel (moist)	4			
			5			Collect sample LSB-50-B from 5'-7' @ 17:57
			6			
			7			
			8			
		Gray-red CLAY, sm. silt, sm. f-sand, tr. f-gravel (wet)	9			
			10			
	+564.7	End of Test Pit @ 10'	11			
			12			
			13			
			14			
			15			

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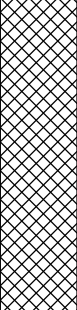
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LOG OF TEST PIT LSB-51

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/1/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 575.28	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 8 ft	WATER LEVEL - First 7 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL Alison Corriveau

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+575.3	TOPSOIL, Brown f-c SAND (dry)	0			
	+574.8	Brown f-c SAND, sm. fill (concrete, slag, asphalt) (dry)	1	S-1	GRAB	Collect sample LSB-51-A from 0.5'-1.5' @ 13:55
		Brown f-c SAND, sm. fill (rocks, wood, slag) tr. silt, (dry)	2	S-2	GRAB	Collect sample LSB-51-B from 1.5'-3' @ 14:20
			3			
	+571.8	Reddish-brown CLAY, tr. silt, tr. f-sand (dry)	4			
		Dark brown-black CLAY, tr. silt, tr. f-sand (dry)	5			
		Grayish-reddish-brown, CLAY, tr. silt (wet)	6			
		▽	7			
	+567.3	End of Test Pit @ 8'	8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

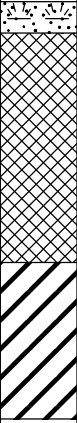
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LOG OF TEST PIT LSB-52

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/1/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.71	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 4 ft	WATER LEVEL - First 4 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL Hanna Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.7	TOPSOIL	0			Collect sample LSB-52-A from 0'-2' @ 13:40
	+574.4	Brown-black f-c SAND, sm. fill (bricks), sm. silt, sm. f-c gravel, tr. organic material (dry)	1	S-1	GRAB	
		Reddish-brown CLAY, sm. f-c sand, sm. f-gravel, sm. fill (construction debris) (dry)	2			Collect sample LSB-52-B from 2'-4' @ 13:28
	+572.2	Gray-black CLAY, sm. silt, tr. f-gravel, tr. f-sand (wet)	3	S-2	GRAB	
	+570.7	End of Test Pit @ 4'	4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LSB-53

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/29/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.9	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 2 ft	WATER LEVEL - First 2 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion 1 ft ▼
		LANGAN PERSONNEL Hannah Griesbach

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.9	5" ASPHALT	0			Collect sample LSB-53-A from 0.5'-1' @ 12:15
	+574.4	c-f GRAVEL	1	S-1	GRAB	
		Brown f-c SAND (dry)				
	+572.9	Gray f-m GRAVEL, tr. f-m sand (wet)	2			Perched water observed @ 2'
		End of Test Pit @ 2'				
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

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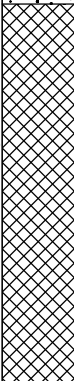
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LOG OF TEST PIT LSB-54

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/28/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.85	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First 8 ft 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion -- 
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.9	TOPSOIL	0			Collect sample LSB-54-A from 0'-2' @ 15:18
	+574.6	Brown f-c SAND, sm. silt, sm. f-c gravel, sm. fill (construction debris) (dry)	1	S-1	GRAB	
			2			Collect sample LSB-54-B from 2'-4' @ 15:00
		Black CLAY, tr. silt, tr. f-m gravel (dry)	3	S-2	GRAB	
	+570.9	Grey-red CLAY, tr. silt, tr. f-gravel (dry)	4			
			5			
			6			
			7			
			8			
		Grey-red CLAY, tr. silt, tr. f-gravel (wet)	9			
	+564.9	End of Test Pit @ 10'	10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LSB-55

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/29/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.41	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 6 ft	WATER LEVEL - First 6 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN LANGAN PERSONNEL Hannah Griesbach	WATER LEVEL - Completion -- ▼

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.4	6" TOPSOIL, Brown f-c SAND, sm. f-c gravel, tr. organics (roots)	0			Collect sample LSB-55-A from 0'-2' @ 15:39
	+573.9	Brown-gray f-c SAND, sm. f-c gravel, sm. fill (construction debris) (dry)	1	S-1	GRAB	Collect sample LSB-55-B from 2'-4' @ 15:15
		Brown-black silty SAND, m-c sand, sm. fill (green-yellow slag, construction debris), tr. f-gravel (wet)	2			
	+570.4	Brown-gray SILT, sm. m-c sand, tr. f-gravel (moist)	3	S-2	GRAB	
	+568.4	End of Test Pit @ 6'	4			Perched water observed @6'
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

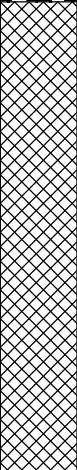
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LOG OF TEST PIT LSB-56

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/3/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 575.61	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 9 ft	WATER LEVEL - First N/A ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+575.6	TOPSOIL	0			Collect sample @ 0'-2'
	+575.1	FILL material, brown f-c sand, sm. silt, sm. f-c gravel, bricks @ 2', tar like material gravel 1'-3' in length	1	S-1	GRAB	
		Red TILL m-c sand, sm. silt, sm. f-c gravel	2			Collect sample @ 3'-5'
		Black SILT f-m sand, tr. f-gravel	3			
			4	S-2	GRAB	
			5			
	+570.6	Gray to red CLAY, sm. silt, sm. f-sand, tr. f-gravel	6			
			7			
			8			
			9			
	+566.6	End of Test Pit @ 9'	10			
			11			
			12			
			13			
			14			
			15			

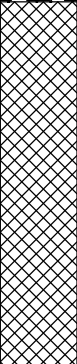
LANGAN

LOG OF TEST PIT LSB-58

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/3/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 575.15	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 6 ft	WATER LEVEL - First 5 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+575.2	TOPSOIL	0			Collect sample @ 0'-2'
	+574.7	[FILL] Brown f-c sand, sm. silt, sm. f-c gravel, construction debris, bricks, concrete blocks, gravel 1'-2' in diameter (2-5 ft bg), scrap pipe	1	S-1	GRAB	Collect sample @ 2'-4'
			2			
			3	S-2	GRAB	
			4			
	+571.2	Large 9" thick CONCRETE, wood, strong odor	4			Collect sample @ 2'-4'
			5			
		CONCRETE block (16" thick, 32" x 32"), perched water, end of fill ▽	5			
			6			
	+569.7	Gray CLAY, sm. silt, sm. f-gravel, sm. f-sand	6			
	+569.2	End of Test Pit @ 6'	6			
		End of Boring @ 6'	6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

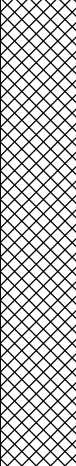
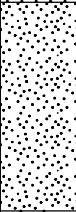
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LOG OF TEST PIT LSB-59

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/3/2013
LOCATION Niagra Falls, NY	ELEVATION	Approx. el.
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 7 ft	WATER LEVEL - First 5 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL Alison Corriveau

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
		TOPSOIL	0			Collect sample LSB-59-A from 0'-2' @ 11:40
		Brown f-c SAND, sm. fill (boulders, conc. slab)	1	S-1	GRAB	
			2			Collect sample LSB-59-B from 2'-4' @ 11:50
			3	S-2	GRAB	
		Dark brown-black organic FILL, trees, roots	4			
			5			
		Gray m-f SAND, sm. silt	6			
			7			
		End of Test Pit @ 7'	8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LSB-60

Sheet 1 of 1

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PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/30/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 575.05			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 10 ft		WATER LEVEL - First 7.5 ft	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion --	
				LANGAN PERSONNEL Alison Corriveau	

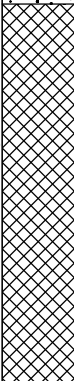
Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+575.1	5" TOPSOIL, Brown SAND		0			Collect sample LSB-60-A from 1'-3' @ 10:40
	+574.6	Reddish brown CLAY, tr. f-sand {dense} (dry)		1			
				2	S-1	GRAB	
				3			
		Light brown f-m SAND, tr. silt (dry) Brown organic FILL (roots and branches) (dry)		4			Collect sample LSB-60-B from 8'-10' @ 11:25
	+571.1	Gray-reddish brown CLAY, sm. f-m sand, sm. silt {dense} (moist)	0	5			
				6			
				7			
				8			
				9			
		Reddish brown CLAY, tr. c-f sand {dense} (moist)		10	S-2 (FD)	GRAB	
	+565.1	End of Boring @ 10'		11			
				12			
				13			
				14			
				15			

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LOG OF TEST PIT LSB-62

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/30/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.9	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 4 ft	WATER LEVEL - First N/A 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A 
		LANGAN PERSONNEL Hanna Griesbach

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.9	TOPSOIL	0			Collect sample LSB-62-A from 0'-2' @ 16:00
	+574.6	Brown-gray f-c SAND, sm. fill, sm. f-c gravel, tr. silt, tr. intrusion of red clay (dry)	1			
		Brown-black silty m-c SAND, sm. fill. sm. f-c gravel, tr. organic material, tr. clay (dry)	2			
			3			
			4			No sample hit service water line @ 4'
	+570.9	End of Test Pit @ 4'	5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LSB-63

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/30/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 575.03	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First 6.5 ft
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion --
		LANGAN PERSONNEL Alison Corriveau

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+575.0	ASPHALT	0			
	+574.7	Brown f-c SAND, tr. f-c gravel, tr. organics, tr. f-cobbles (dry)				
	+574.0	Dark brown f-c SAND, tr. fill (bricks, concrete) (dry)	1			
			2			
		Gray f-m SAND, tr. organics (roots), tr. fill (brick, concrete) (dry)	3			Collect sample LSB-63-A from 3'-5' @ 08:56
		Dark brown-black f-c SAND, sm. silt, tr. roots (dry)	4	S-1	GRAB	
	+570.0	Gray SILTY CLAY, sm. f-m sand (moist)	5			Collect sample LSB-63-B from 5'-7' @ 09:05
			6	S-2 (MS/MSD)	GRAB	
		Gray SILTY CLAY, sm. f-m sand (wet)	7			
			8			
	+566.5	Reddish brown CLAY, tr. silt (wet)	9			
			10			
	+565.0	End of Test Pit @ 10'	10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LTP-04

Sheet 1 of 1

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PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/25/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el.			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 10 ft		WATER LEVEL - First 10 ft ▽	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion 10 ft ▼	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
		4" TOPSOIL		0			Collect sample LTP-4-A from 1'-3' @ 10:45
		Brown, f-c SAND, tr. organics (roots) (dry)		1			
			0	2	S-1	GRAB	
		Dark brown-black, f-c SAND, tr. silt, tr. organics (dry)	0	3			
		Brown-orange-gray f-SAND, sm. clay (moist)		4			
				5			
				6			
		Brown-orange-gray f-SAND, sm. clay (moist)	0	7			
				8			
				9	S-2	GRAB	
			▼	10			
				11			
			12			Collect sample LTP-4-B from 8'-10' @ 10:53	
			13				
			14				
			15				
		End of Test Pit @ 10'					

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LOG OF TEST PIT LTP-05

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/25/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 573.75	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First 10 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion -- ▼
		LANGAN PERSONNEL Hannah Griesbach

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+573.8	3" ASPHALT	0			
	+573.5	Gray-brown FILL, m-c sand, tr. large gravel (dry)	1			
		Black SAND, sm. silt, tr. f-gravel (dry)	2	S-1	GRAB	Collect sample LTP-5-A from 1'-2' @ 10:40
	+571.8	Gray-brown CLAY, tr. f-gravel (dry)	3			
			4			
			5			
			6			
		Gray-brown CLAY, tr. f-gravel (dry)	7			
			8			
			9	S-2	GRAB	Collect sample LTP-5-B from 8'-10' @ 10:30
	+563.8	End of Test Pit @ 10'	10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LTP-06

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/25/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 573.79	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First 10 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion -- ▼
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+573.8	3" ASPHALT	0			Collect sample LTP-6-A from 1'-2.5' @ 15:05
	+573.5	Gray m-c FILL, sm. f-gravel, tr. large gravel, tr. fill (construction debris)	1			
	+572.8	(dry)	2	S-1	GRAB	
		Black CLAY, tr. silt, tr. organic material (dry)	3			
	+571.3	Gray-brown CLAY, sm. f-gravel, tr. f-sand (dry)	4			Collect sample LTP-6-B from 8'-10' @ 14:55
			5			
			6			
			7			
			8			
			9	S-2	GRAB	
			10			
			11			
			12			
			13			
	+563.8	End of Test Pit @ 10'	14			
			15			

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LOG OF TEST PIT LTP-07

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/25/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 573.4			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 11 ft		WATER LEVEL - First N/A ▽	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion N/A ▼	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+573.4	TOPSOIL		0			
	+572.9	Brown f-c SAND, tr. silt, tr. organics (roots) (dry)	0	1			Collect sample LTP-7-A from 1'-3' @ 14:50
		Gray-brown f-SAND, sm. clay (dry)		2	S-1	GRAB	Collect sample LTP-7-B from 2'-4' @ 15:00
		Dark brown-black f-c SAND, sm. fill (wood), tr. organics (roots)					
	+570.4	Grayish-brown silty CLAY, tr. f-sand (moist)	0	3	S-2	GRAB	
				4			
			0	5			
				6			
				7			
				8			
				9			
				10			
		Reddish-brown CLAY, tr. silt, tr. f-sand (moist)					
				11			
	+562.4	End of Test Pit @ 11'		12			
				13			
				14			
				15			

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LOG OF TEST PIT LTP-08

Sheet 1 of 1

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PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/25/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 575.36			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 11 ft		WATER LEVEL - First 11 ft ▽	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion N/A ▼	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+575.4	Brown TOPSOIL, f-c sand, tr. organics (dry)		0			Collect sample LTP-8-A from 2'-4' @ 12:10
	+574.4	Brown f-c SAND, sm. fill (concrete), sm. till, little gravel (dry)	0	1			
		Dark brown-black SAND, tr. silt, tr. organics (dry)	0	2			
	+572.4	Gray-brown CLAY, tr. f-sand (dry)		3	S-1	GRAB	
				4			Collect sample LTP-8-B from 6'-8' 12:20
			0	5			
				6			
				7	S-2	GRAB	
				8			
				9			
				10			
				11			
	+564.4	End of Test Pit @ 11'	▽	11			
				12			
				13			
				14			
				15			

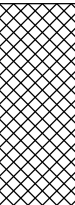
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LOG OF TEST PIT LTP-09

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/25/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 573.82	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First 10 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN LANGAN PERSONNEL Hannah Griesbach	WATER LEVEL - Completion -- ▼

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS	
				Number	Type		
	+573.8	Grey FILL (construction debris), sm. sand, sm. f-gravel, tr. large gravel (dry)	0			Collect sample LTP-9-A from 1'-2.5' @ 12:30	
			1				
			2				
	+571.8	Black CLAY, tr. silt, tr. f-gravel (dry) Gray-brown CLAY, tr. f-sand (dry)	3	S-1	GRAB		
			4				
			5				
			6				
		Gray-brown CLAY, tr. f-sand (dry)	7				
			8				
			9	S-2	GRAB	Collect sample LTP-9-B from 8'-10' @ 12:05	
			10				
		+563.8	End of Test Pit @ 10'	11			
			12				
			13				
			14				
			15				

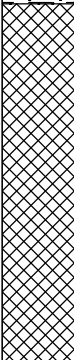
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LOG OF TEST PIT LTP-10

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/27/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 573.19	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First N/A 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A 
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+573.2	1" TOPSOIL, Brown f-m SAND, tr. silt, intrusions of reddish sand	0			
	+572.7	Gray m-c SAND, sm. fill (construction debris, bricks, concrete, slag), sm. c-gravel	1	S-1	GRAB	Collect sample LTP-10-A from 1'-2' @ 12:42
			2			
		Black c-gravel	3	S-2	GRAB	Strong odor @ 3', Collect sample LTP-10-B from 3'-4' @ 12:34
			4			
	+569.2	Gray to red CLAY, tr. silt, tr. f-gravel	5			
			6			
			7			
			8			
			9			
			10			
	+563.2	End of Test Pit @ 10'	11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LTP-11

Sheet 1 of 1

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PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/27/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 574.44			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 11.5 ft		WATER LEVEL - First N/A	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion --	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+574.4	Brown f-c SAND, tr. clay, tr. organics (dry)	0	0			Collect sample LTP-11-A from 1'-3' @ 11:25 Slight odor @ 1.5-4' Collect sample LTP-11-B from 5'-7' @ 11:35
		Light brown-gray f-m SAND (dry)		1			
		Dark brown-black f-c SAND, little clay, tr. silt, tr. organics (wood) (dry)		2	S-1	GRAB	
				3			
		Gray f-m SAND, tr. silt (moist)		4			
				5			
				6	S-2	GRAB	
				7			
				8			
				9			
	+567.4	Reddish-brown CLAY, tr. f-sand (moist)	0	10			
				11			
				12			
				13			
				14			
	+562.9	End of Test Pit @ 11.5'		15			

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LOG OF TEST PIT LTP-12

Sheet 1 of 1

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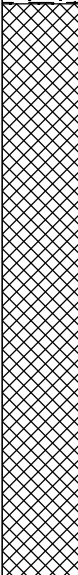
PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/27/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 574.02			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 10 ft		WATER LEVEL - First N/A ▽	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion N/A ▼	
				LANGAN PERSONNEL Hannah Griesbach	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+574.0	5" TOPSOIL, brown f-c SAND, sm. f-c gravel, tr. silt (dry)		0			Collect sample LTP-12-A from 0'-2' @ 11:00
	+573.6	Brown f-c SAND, sm. f-c gravel, tr. fill (construction debris), tr. organic material, tr. silt (dry)		1	S-1	GRAB	
		Black m-c SAND, sm. silt, sm. f-c gravel, sm. fill (construction debris, concrete blocks, sidewalk pieces, brick) (dry)		2			
	+570.0	Grey to red CLAY, tr. silt, tr. f-gravel (Dry)	0.1	4			Collect sample LTP-12-B from 4'-6' @ 10:40
			0.1	5	S-2	GRAB	
			0.1	6			
		Grey to red CLAY, tr. silt, tr. f-gravel (Dry)		7			
				8			
				9			
	+564.0	End of Test Pit @ 10'		10			
				11			
				12			
				13			
				14			
				15			

LOG OF TEST PIT LTP-14

Sheet 1 of 1

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PROJECT NAME FONF Expansion Sabre Park BCP			PROJECT NUMBER 140091401		DATE 6/27/2013		
LOCATION Niagra Falls, NY			ELEVATION Approx. el. 574.77				
EXCAVATION CONTRACTOR Mark Cerrone Inc.			DEPTH 10 ft		WATER LEVEL - First 9 ft ▽		
EQUIPMENT Komatsu PC 228USLC			FOREMAN		LANGAN PERSONNEL Hannah Griesbach		
Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+574.8	5" TOPSOIL, Brown f-c SAND, sm. f-gravel, tr. silt, tr. c-gravel tr. fill (wood) (dry)		0			Collect sample LTP-14-A from 0'-2' @ 08:45
	+574.3	Brown f-c SAND, sm. f-gravel, tr. silt, tr. c-gravel tr. fill (wood) (dry)		1	S-1	GRAB	
		FILL, (telephone pole, slag), sm. gravel	18.2	2			Collect sample LTP-14-B from 2'-4' @ 08:35
		Grey m-c SAND, sm. f-c gravel (dry)	18.2	3	S-2	GRAB	
		Black CLAY, sm. silt, sm. f-gravel, tr. organic material (dry)	18.2	4			
				5			
	+568.8	Grey-red CLAY, tr. f-gravel, intrusions of brown (dry)		6			
				7			
				8			
		Grey-red CLAY, tr. f-gravel, intrusions of brown (wet)	▽	9			
	+564.8	End of Test Pit @ 10'		10			
				11			
				12			
				13			
				14			
				15			

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LOG OF TEST PIT LTP-15

Sheet 1 of 1

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PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/27/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 574.54			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 10 ft		WATER LEVEL - First 7 ft	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion --	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+574.5	TOPSOIL		0			
	+574.0	Brown f-c SAND, tr. clay, tr. organics (dry) Brown-dark brown f-c SAND, sm. fill (concrete slab, brick, wood), tr. silt, tr. organics, (dry)	0	1			
				2			
				3			
		Dark brown-black f-c SAND, tr. organics, tr. silt (dry)	0	4	S-1	GRAB	Collect sample LTP-15-A from 3'-5' @ 09:00
				5			
				6			
				7	S-2 (MS/MSD)	GRAB	Collect sample LTP-15-B from 6'-8' @ 09:20
				8			
				9			
	+566.0	Reddish-brown CLAY (moist)		10			
	+564.5	End of Test Pit @ 10'		11			
				12			
				13			
				14			
				15			

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LOG OF TEST PIT LTP-16

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/26/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 574.49			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 10.5 ft		WATER LEVEL - First N/A 	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion -- 	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+574.5	TOPSOIL		0			
	+574.0	Brown f-c SAND, little organics (roots, wood), tr. gravel, tr. clay, (dry) Reddish-brown f-c SAND, tr. fill, (brick, asphalt) (dry)	0	1			
				2			
				3			
		Dark brown-black f-c SAND, sm. silt, tr. clay, tr. organics (wood) (dry)		4	S-1	GRAB	Collect sample LTP-16-A from 3'-5' @ 08:10
	+570.5	Grayish-brown CLAY, tr. f-sand, tr. silt (moist)	0	5			
				6			
				7			
				8	S-2	GRAB	Perched water observed @ 7', Collect sample LTP-16-B from 7'-9' @ 08:20
				9			
		Reddish-brown CLAY, tr. silt, tr. f-sand (moist)		10			
	+564.5	End of Test Pit @ 10.5'		11			
				12			
				13			
				14			
				15			

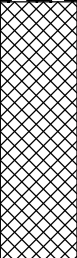
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LOG OF TEST PIT LTP-17

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/25/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 573.95	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First 10 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion -- ▼
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.0	TOPSOIL	0			
	+573.5	Brown FILL (construction debris), m-c sand, sm. f-c gravel, tr. silt (dry)	1			Collect sample LTP-17-A from 1'-3' @ 16:25
			2	S-1	GRAB	
			3			
	+571.0	Black CLAY, tr. f-gravel (dry) Gray-red CLAY, tr. f-sand, tr. f-gravel (dry)	4			
		Gray-red CLAY, tr. f-sand, tr. f-gravel (dry)	5			
			6			
			7			
			8			
			9	S-2	GRAB	Collect sample LTP-17-B from 8'-10' @ 16:15
			10			
	+564.0	End of Test Pit @ 10'	10			Groundwater @ 10'
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LTP-18

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/26/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.21	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First 10 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion -- ▼
		LANGAN PERSONNEL Alison Corriveau

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.2	3" ASPHALT	0			
	+573.9	Brown m-c SAND, sm. fill (construction debris, concrete, brick) sm. f-gravel, tr. large gravel, tr. silt (dry)	1			Collect sample LTP-18-A from 1'-3' @ 08:05
			2	S-1	GRAB	
	+571.7	Black CLAY, tr. silt, tr. organic material (dry) Grey-red CLAY, tr. silt, tr. f-gravel (dry)	3			
			4			
			5			
			6			
			7			
		Grey-red CLAY, tr. silt, tr. f-gravel (moist)	8			Collect sample LTP-18-B from 8'-10' @ 07:53
			9	S-2	GRAB	
	+564.2	End of Test Pit @ 10'	10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LTP-19

Sheet 1 of 1

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PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/25/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 573.89			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 11.5 ft		WATER LEVEL - First 11 ft	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion N/A	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+573.9	TOPSOIL		0			
	+573.4	Brown f-c SAND, tr. silt, tr. organics (roots) (dry)		1			
			0	2			
		Dark Brown-black f-c SAND, tr. organics (roots) (dry)	0	3			
	+570.4	Gray silty CLAY, sm. f-sand (moist)		4	S-1	GRAB	Collect sample LTP-19-A from 3'-5' @ 16:10
				5			
				6			
				7			
			0	8			
				9			
		Reddish-brown CLAY (moist)	0	10	S-2	GRAB	Collect sample LTP-19-B from 9'-11' @ 16:20
				11			
	+562.4	End of Test Pit @ 11.5'		12			
				13			
				14			
				15			

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LOG OF TEST PIT LTP-20

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP		PROJECT NUMBER 140091401		DATE 6/25/2013	
LOCATION Niagra Falls, NY		ELEVATION Approx. el. 574.73			
EXCAVATION CONTRACTOR Mark Cerrone Inc.		DEPTH 10.5 ft		WATER LEVEL - First N/A ▽	
EQUIPMENT Komatsu PC 228USLC		FOREMAN		WATER LEVEL - Completion N/A ▼	
				LANGAN PERSONNEL Alison Corriveau	

Symbol	ELEV (feet)	DESCRIPTION	PID readings (ppm)	Depth Scale	SAMPLE		REMARKS
					Number	Type	
	+574.7	TOPSOIL		0			
	+574.2	Brown, c-f SAND, tr. organics (roots), tr. clay (dry)		1			
			0	2	S-1	GRAB	Collect sample LTB-20-A from 2'-4' @ 13:20
		Dark brown-black SAND, tr. organics (roots, wood), tr. silt (dry)		3			
	+571.2	Reddish gray-brown, silty CLAY, tr. f sand (dry)		4			
			0	5			
				6			Collect sample LTP-20-B from 6'-8' @ 13:30
		Reddish gray-brown, silty CLAY, tr. f sand (dry)		7			
			0	8	S-2	GRAB	
				9			
			0	10			
	+564.2	End of Test Pit @ 10.5'		11			
				12			
				13			
				14			
				15			

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LOG OF TEST PIT LTP-21

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/27/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 573.6	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 11.5 ft	WATER LEVEL - First N/A 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion -- 
		LANGAN PERSONNEL Alison Corriveau

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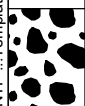
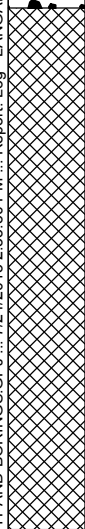
Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+573.6	TOPSOIL	0			
	+573.1	Gray-brown f-c SAND, sm. f-gravel (dry) Brown f-c SAND, sm. f-m gravel (dry) Brown-black f-c SAND, tr. organics (moist)	1			
			2			
			3			
		Brown-black f-c SAND, tr. organics (wet)	4	S-1	GRAB	Perched water @ 3', Collect sample LTP-21-A from 3'-5' @ 14:08
	+569.1	Gray f-c SAND, tr. silt (wet)	5			
			6	S-2	GRAB	Collect sample LTP-21-B from 5'-7' @ 14:18
	+566.6	Reddish-brown CLAY, tr. f-sand (wet)	7			
			8			
			9			
			10			
		Reddish-brown CLAY, tr. f-sand (wet)	11			
	+562.1	End of Test Pit @ 11.5	12			
			13			
			14			
			15			

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LOG OF TEST PIT LTP-22

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/27/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 573.89	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 6 ft	WATER LEVEL - First 3 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL Alison Corriveau

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+573.9	Brown f-m GRAVEL, tr. f-c sand	0			
	+572.9	Brown-dark brown f-c SAND, sm. fill (metal sheets, brick, concrete)	1			Odor and minor staining observed
			2	S-1 (FD)	GRAB	Collect sample LTP-22-A from 2'-4' @ 15:30
			3			Sheen observed @ 3'
			4			
			5	S-2	GRAB	White foam material observed @ 5'
	+567.9	End of Test Pit @ 6'	6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

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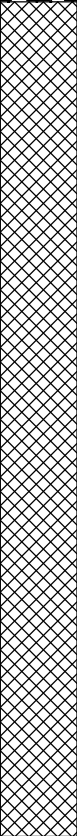
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LOG OF TEST PIT LTP-23

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/28/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 575.04	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First N/A ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL Alison Corriveau

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+575.0	TOPSOIL	0			
	+574.5	Brown f-c SAND, tr. clay (dry)	1			
		Dark brown-black f-c SAND, sm. fill (concrete, brick, plastic, tire), tr. silt (dry)	2			
			3			
		Gray f-m SAND, tr. clay (dry)	4			Collect sample LTP-23-A from 4'-6' @ 14:15
			5	S-1	GRAB	
			6			
			7			Collect sample LTP-23-B from 6.5'-8.5' @ 15:00
			8	S-2 (FD)	GRAB	
			9			
	+566.5	Reddish-brown CLAY, tr. f-sand (dry)	9			
	+565.0	End of Test Pit @ 10'	10			
			11			
			12			
			13			
			14			
			15			

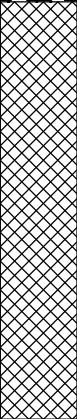
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LOG OF TEST PIT LTP-24

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/2/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.46	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 8 ft	WATER LEVEL - First 7 ft ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL -----

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.5	TOPSOIL	0			Collect sample LTP-24-A from 0'-2' @ 16:05
	+574.0	Brown f-c SAND, tr. organics, tr. f-gravel	1	S-1	GRAB	
		Reddish-brown CLAY, tr. gravel	2			
		Shiny black ORGANIC CLAY material, sm. f-c sand, sm. bricks	3			Collect sample LTP-24-B from 3'-5' @ 16:20
			4	S-2	GRAB	
			5			
	+570.0	Gray SILT, sm. clay (moist)	6			
		Gray f-m SAND, sm. silt (moist)	7			
		Reddish-brown CLAY	8			
	+566.5	End of Test Pit @ 8'	9			
			10			
			11			
			12			
			13			
			14			
			15			

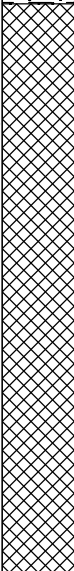
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LOG OF TEST PIT LTP-25

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 6/27/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.83	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 10 ft	WATER LEVEL - First N/A 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A 
		LANGAN PERSONNEL Hannah Griesbach

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.8	TOPSOIL	0			
	+574.3	Brown m-c SAND, sm. f-m-c gravel, , sm. construction debris (wood, bricks, concrete, garbage), tr. silt (dry)	1			Collect sample LTP-25-A from 1'-3' @ 18:16
			2	S-1	GRAB	
		Black CLAY, sm. f-m gravel, tr. silt (dry)	3			Collect sample LTP-25-B from 3'-5' @ 18:01
			4	S-2	GRAB	
			5			
	+568.8	Gray-brown CLAY, tr. f-gravel (dry)	6			
			7			
			8			
			9			
	+564.8	End of Test Pit @ 10'	10			
			11			
			12			
			13			
			14			
			15			

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LOG OF TEST PIT LTP-26

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/2/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.8	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 7 ft	WATER LEVEL - First N/A 
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A 
		LANGAN PERSONNEL Alison Corriveau

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.8	F-GRAVEL, sm. f-c sand	0			
	+574.4	Brown f-m SAND, sm. clay	1			
		Dark brown-black organic FILL (wood, branches)	2			
			3			
			4	S-1	GRAB	Collect sample LTP-26-A from 3'-5' and FD-B: 3'-5' @ 8:20
			5			
	+569.3	Gray f-m SAND, sm. silt, tr. clay	6			
			7	S-2	GRAB	Collect sample LTP-26-B from 6'-8' @ 8:45
			8			
	+566.8	End of Test Pit @ 8'	9			
			10			
			11			
			12			
			13			
			14			
			15			

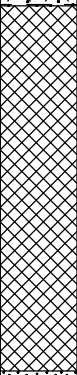
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LOG OF TEST PIT LTP-27

Sheet 1 of 1

PROJECT NAME FONF Expansion Sabre Park BCP	PROJECT NUMBER 140091401	DATE 7/2/2013
LOCATION Niagra Falls, NY	ELEVATION Approx. el. 574.8	
EXCAVATION CONTRACTOR Mark Cerrone Inc.	DEPTH 8 ft	WATER LEVEL - First N/A ▽
EQUIPMENT Komatsu PC 228USLC	FOREMAN	WATER LEVEL - Completion N/A ▼
		LANGAN PERSONNEL -----

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Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
	+574.8	TOPSOIL	0			Collect sample LTP-27-A from 0'-2' @ 9:40
	+574.3	Brown f-c SAND, tr. f-gravel, tr. organics	1	S-1	GRAB	
			2			
		Dark brown-black organic FILL (roots, branches)	3			Collect sample LTP-27-B from 6'-8' @ 9:50
			4			
	+570.8	Gray f-m SAND, sm. silt (moist)	5			
			6			
			7			
	+567.8	Reddish-brown CLAY {dense}	7	S-2	GRAB	
	+566.8	End of Test Pit @ 8'	8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

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