

TABLES

TABLE 1

Analytical Log Sheet
Defense Battery BU34/35
Town of Aurora, NY

Date of Sampling	Sample Names	What Was Sampled	Parameters	Date of Report	Lab Project No.	Appendix
4/10/18	SILO #2 Ext. - Rubbery Coating, SILO #3 Fabric - Concrete Waterproofing, SILO #3 Combo - Concrete Waterproofing	Waterproofing material	Asbestos	4/11/18	141801557	H
4/24/18	SILO2-1, SILO2-2	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/2/18	JC64854	F, Attachment 2
4/25/18	SILO2-3, SILO3-1	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/2/18	JC65049	F, Attachment 2
5/3/18	SILO5-1, SILO5-2	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/8/18	JC65453	F, Attachment 2
4/30/18	SILO3-2, SILO3-3	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/9/18	JC65280	F, Attachment 2
5/7/18	SILO5-3, SILO4-1	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/22/18	JC65766	F, Attachment 2
5/3/18	SILO2-W, SILO2-SED	Silo Water and Sediment	VOCs, SVOCs, PCBS, RCRA 8 Metals, DRO, ORO, GRO and TSS for Silo2-W	5/29/2018, CD	JC65455	C, Appendix E
5/14/18	SILO1-1, SILO1-2, SILO1-3	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/25/18	JC66232	F, Attachment 2
5/9/18	SILO4-2, SILO4-3	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/23/18	JC65882	F, Attachment 2
5/15/18	BAG-A-SILOS-1-5	Bag Filters from Treatment System	Asbestos	5/31/18	141802481	G
5/29/18	PRIMARY GAC/CLAY	Treatment System Media Sample	VOCs, RCRA 8 Metals	6/8/18	JC66934	G
5/22/18	GAC1-A, GAC1-B, SILO3-SED, SILO4-SED, SILO5-SED, SILO1-SED	Silo Treatment Discharge between GAC Units, and Sediment Samples from Silos 1, 3, 4 and 5.	GAC1-A and GAC1-B: BTEX, O&G, COD SILO3-SED, SILO4-SED, SILO5-SED and SILO1-SED: VOCs, SVOCs, PCBs, RCRA 8 Metals, DRO, GRO, and ORO	6/5/2018, CD	JC66618 and JC66618R	C, Appendix E
5/31/18	SILO1-ROOF, SILO1-SIDEWALL, SILO4-ROOF	Silo wall core samples	SVOCs, PCB, RCRA 8 Metals	6/8/18	JC67142	M
8/8/18	SILO 6 WATER	Groundwater from within Silo 6	VOCs, SVOCs, PCBs, RCRA 8 Metals, Select Metals, O&G, TSS, COD, pH, TOC	8/17/18	JC71604	S
8/27/18	SILO06-SOIL-2FT, SILO06-SOIL-4FT	Disposal characterization	VOCs, SVOCs, PCBs, RCRA 8 Metals	9/5/18	JC72715	N

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9/10/18	New Enterprise Stone & Lime Company -Cheektowaga	Fill Material	VOCs, SVOCs, PCBs, Select Metals, Pesticides and Herbicides	9/26/2018, Reissue #1	JC73525	C, Appendix H
9/11/18	Silo 6-Soil - 2FT, Silo 6-Soil-4FT	Soil characterization within Silo 6	VOCs	9/18/18	JC73715	N
9/25/18	SILO 5 HOT SPOT, SILO 2/3 BLACK FILL	Disposal characterization	VOCs, SVOCs, PCBs, RCRA 8 Metals	10/9/18	JC74579	N
10/9/18	D&H Fill, D&H Bank Run	Fill Material	VOCs, SVOCs, PCBs, Select Metals, Pesticides and Herbicides	10/23/18, Reissue #1	JC75617	C, Appendix H
11/8/18	Silo 6-1	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	11/14/18	JC77588	R, Attachment 3
11/27/18	SILO PISTON OIL	Hydraulic oil from Silos 1, 4 and 6	SVOCs, PCBs, RCRA 8 Metals	11/27/18	JC78619A	L
11/27/18	SILO 1 PAH SOIL	Silo 1 soil	VOCs, SVOCs, PCBs, RCRA 8 Metals	12/7/18	JC78619	N
3/29/19	Silo #1, Silo #4, and Silo #6	Silo water for discharge approval	TSS, O&G, PCBs, VOCs, SVOCs, TOC, COD, Metals, Mercury, pH	4/12/19	R1902767	S
4/9/19	Silo 3 and Silo 5	Silo Water for Discharge Approval	VOCs, SVOCs, PCBs, RCRA 8 Metals, Metals, O&G, TSS, COD, TOC, pH	4/19/19	JC86089	S
4/17 & 4/18/2019	Silo 5-1 and Silo 5-2	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	4/25/19	JC86676	R, Attachment 3
4/24 & 4/25/2019	Silo 5-3 and Silo 3-1	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/6/19	JC87121	R, Attachment 3
5/1/19	Silo 2, Silo 3-2 (Water) and Silo 5 (Soil)	Silo Treatment System Discharge & Soil Characterization	BTEX, Select Metals, O&G, COD, TSS for Silo 2 and Silo 3-2. VOC, SVOCs, RCRA 8 Metals and PCBs for Silo 5	5/10/19	JC87363	R, Attachment 3
5/6/19	Silo 2-1 and Silo 2-2	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/21/19	JC87686	R, Attachment 3
5/8/19	Silo 2-3	Silo Treatment System Discharge	BTEX, Select Metals, O&G, COD, TSS	5/16/19	JC87833	R, Attachment 3
5/21 & 5/23/2019	Silo 6-1, Silo 6-2 and Silo 4-1	Silo Treatment System Discharge	COD and TSS	6/3/19	JC88797	R, Attachment 3
6/6/19	Silo 4-2, Silo 1-1, Silo 1-2	Silo Treatment System Discharge	COD and TSS	6/12/19	JC89422	R, Attachment 3

TABLE 2

Summary of Asbestos Containing Material Friable and Non-Friable Disposal, Silos 1 - 5
 Defense Battery BU34/35
 Town of Aurora, NY

Friable ACM Disposal Summary		
Date	Source Location	Weight (Tons)
8/2/2018	Silo 1 -5	1.59
Total		1.59

Non-Friable ACM Disposal Summary		
Date	Source Location	Weight (Tons)
7/26/2018	Silos 1-5	3.66
8/13/2018	Silos 1-5	3.09
8/27/2018	Silos 1-5	0.87
7/16/2019	Silo 2	0.26
Total		7.88

TABLE 3

Summary of Oily Water and Oily Sludge Disposal
 Silos 1-5
 Defense Battery BU34/35
 Town of Aurora, NY

Oily Water	
Date	Volume (Gallons)
7/31/18	7,664
8/1/18	7,239
	7,810
8/2/18	7,812
	7,230
8/6/18	5,402
	5,565
	2,520
8/7/18	4,677
	5,460
Total	61,379

Oily Sludge	
Date	Weight (Tons)
8/2/18	5.30
	8.97
8/6/18	8.55
8/7/18	10.74
8/8/18	10.45
	10.72
8/9/18	5.79
Total	60.52

TABLE 4

Summary of Hydraulic Oil Disposal

Defense Battery BU34/35
Town of Aurora, NY

Date	Weight (pounds)
12/11/18	2,400
6/13/19	2,250
Total	4,650

TABLE 5

Summary of Coated Concrete Disposal
Defense Battery BU34/35
Town of Aurora, NY

Date	Weight (Tons)
10/8/18	24.12
10/9/18	17.85
10/24/18	25.69
11/7/18	22.50
Total	90.16

TABLE 6

Summary of Non-Hazardous Soil Disposal
Defense Battery BU34/35
Town of Aurora, NY

Date	Number of Loads	Weight (Tons)
11/7/18	20	452.68
11/8/18	15	354.09
11/12/18	27	559.21
11/13/18	24	548.09
11/26/18	12	311.51
11/27/18	26	711.34
11/29/18	15	328.54
12/10/18	36	892.08
12/11/18	14	335.35
12/17/18	18	435.65
6/5/19	20	470.6
6/6/19	7	136.14
Total	234	5535.28

TABLE 7

Summary of Asbestos Containing Material Friable Disposal, Silo 6 Soil
Defense Battery BU34/35
Town of Aurora, NY

Date	Source Location	Weight (Tons)
10/18/2018	Silo 6 Soil	20.81
		21.50
		23.35
		22.46
		23.86
		25.56
		22.69
		22.22
		19.87
		22.72
		22.01
10/22/2018	Silo 6 Soil	15.60
		16.21
		14.28
		18.36
		19.27
		19.89
		20.61
		23.75
		24.31
		24.87
		23.82
10/23/2018	Silo 6 Soil	27.66
		26.33
		25.57
		26.7
		21.9
		24.32
		23.34
		24.91
10/29/2018	Silo 6 Soil	21.44
		20.58
		21.18
		21.03
		24.59
		21.2
		20.86
		22.66
		21.52
		20.85
Total		884.66

TABLE 8

Summary of Asbestos Containing Material Non-Friable Disposal, Silo 6 Soil
Defense Battery BU34/35
Town of Aurora, NY

Date	Source Location	Weight (Tons)
10/29/2018	Silo 6 Soil	18.82
10/30/2018	Silo 6 Soil	20.64
		19.39
		21.37
		19.87
		18.1
Total		118.19

Table 9

Summary of Silo Backfill Testing
Defense Battery BU34/35
Town of Aurora, NY

Silo 1			
Starting Elevation: 887.0 feet			
Elevation of Final Compacted Lift: 896.5 feet			
Lift	Backfill Material Type	Compaction Results	Date Measured
1	D&H Fill	Pass, 97.5% & 97.7%	6/26/2019
2	D&H Fill	Pass, 97.8% & 97.0%	6/26/2019
3	Surrounding Fill	Pass, 90.8% & 91.6%	6/27/2019
4	Surrounding Fill	Pass, 94.5% & 93.9%	6/27/2019
5	Surrounding Fill	Pass, 92.7% & 91.4%	6/28/2019
6	Surrounding Fill	Pass, 90.9% & 92.0%	6/28/2019
7	Surrounding Fill	Pass, 89.8% & 90.6%	7/1/2019
8	D&H Fill	Pass, 91.9% & 93.5%	7/1/2019
9	D&H Fill	Pass, 99.6% & 101.9%	7/2/2019

Silo 2			
Starting Elevation: 888.0 feet			
Elevation of Final Compacted Lift: 897.5 feet			
Lift	Backfill Material Type	Compaction Results	Date Measured
1	Surrounding Fill	Pass, 96.8% & 101.7%	6/4/2019
2	Surrounding Fill	Pass, 96.6% & 93.6%	6/5/2019
3	Surrounding Fill	Pass, 97.9% & 91.3%	6/5/2019
4	Surrounding Fill	Pass, 96.9% & 91.7%	6/6/2019
5	Surrounding Fill	Pass, 90.1% & 90.6%	6/6/2019
6	Surrounding Fill	Pass, 91.5% & 91.7%	6/10/2019
7	Surrounding Fill	Pass, 93.3% & 92.7%	6/12/2019
8*	D&H Fill	Pass, 98.8% & 97.3%	6/12/2019
9*	D&H Fill	Pass, 91.4% & 98.0%	6/14/2019

* Lifts 8 and 9 at Silo 2 are misidentified as lifts 7 and 8 on 3rd Rock's Field Logs.

Table 9

Summary of Silo Backfill Testing
Defense Battery BU34/35
Town of Aurora, NY

Silo 3			
Starting Elevation: 889.5 feet			
Elevation of Final Compacted Lift: 900.0 feet			
Lift	Backfill Material Type	Compaction Results	Date Measured
1	Surrounding Fill	Pass, 93.9% & 90.5%	6/26/2019
2	Surrounding Fill	Pass, 98.3% & 91.4%	6/26/2019
3	D&H Fill	Pass, 97.2% & 93.5%	6/27/2019
4	D&H Fill	Pass, 97.8% & 101.7%	6/27/2019
5	D&H Fill	Pass, 101.1% & 100.6%	6/28/2019
6	D&H Fill	Pass, 98.8% & 92.4%	6/28/2019
7	D&H Fill	Pass, 95.2% & 91.6%	7/1/2019
8	D&H Fill	Pass, 97.2% & 96.5%	7/1/2019
9	D&H Fill	Pass, 102.0% & 98.9%	7/2/2019

Silo 4*			
Starting Elevation: 885.5 feet			
Elevation of Final Compacted Lift: 895.0 feet			
Lift	Backfill Material Type	Compaction Results	Date Measured
1	D&H Fill	Pass, 94.2% & 97.6%	6/26/2019
2	D&H Fill	Pass, 99.3% & 101.0%	6/27/2019
3	D&H Fill	Pass, 96.7% & 96.8%	6/27/2019
4	D&H Fill	Pass, 101.2% & 98.9%	6/28/2019
5	D&H Fill	Pass, 97.8% & 98.1%	6/28/2019
6	D&H Fill	Pass, 94.9% & 91.0%	7/1/2019
7	D&H Fill	Pass, 90.9% & 94.3%	7/1/2019
8	D&H Fill	Pass, 97.2% & 98.8%	7/2/2019

*Lifts at Silo 4 are slightly greater than 12 inches per lift.

Table 9

Summary of Silo Backfill Testing
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Silo 5			
Starting Elevation: 885.0 feet			
Elevation of Final Compacted Lift: 896.5 feet			
Lift	Backfill Material Type	Compaction Results	Date Measured
1	Surrounding Fill	Pass, 94.1% & 95.9%	6/4/2019
2	Surrounding Fill	Pass, 95.5% & 94.6%	6/4/2019
3	Surrounding Fill	Pass, 97.5% & 93.3%	6/5/2019
4	Surrounding Fill	Pass, 93.4% & 94.3%	6/5/2019
5	Surrounding Fill	Pass, 90.9% & 91.8%	6/6/2019
6	Surrounding Fill	Pass, 96.5% & 90.5%	6/6/2019
7	Surrounding Fill	Pass, 91.9% & 90.7%	6/10/2019
8	Surrounding Fill	Pass, 91.3% & 90.0%	6/12/2019
9	D&H Fill	Pass, 91.0% & 93.6%	6/12/2019
10	D&H Fill	Pass, 91.6% & 90.1%	6/14/2019
11	Surrounding Fill	Pass, 93.0% & 91.7%	6/19/2019
12	D&H Fill	Pass, 98.6% & 90.2%	6/19/2019

Silo 6			
Starting Elevation: 887.5 feet			
Elevation of Final Compacted Lift: 898.5 feet			
Lift	Backfill Material Type	Compaction Results	Date Measured
3*	D&H Fill	Pass, 93.1% & 91.6%	6/5/2019
4	D&H Fill	Pass, 91.6% & 94.4%	6/6/2019
5	D&H Fill	Pass, 94.5% & 94.8%	6/10/2019
6	D&H Fill	Pass, 92.7% & 94.5%	6/10/2019
7	D&H Fill	Pass, 95.7% & 99.5%	6/12/2019
8	D&H Fill	Pass, 95.7% & 96.2%	6/12/2019
9	D&H Fill	Pass, 95.1% & 96.9%	6/14/2019
10	D&H Fill	Pass, 95.7% & 93.2%	6/19/2019
11	D&H Fill	Pass, 95.4% & 95.6%	6/19/2019

* First compacted lift, at elevation 887.5 feet, was identified by 3rd Rock as Lift 3.