
**SITE CHARACTERIZATION REPORT
FOR THE CNY CAR CRUSHERS SITE
(NYSDEC SITE 738048)
HASTINGS, OSWEGO COUNTY, NEW YORK**

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LIST OF ACRONYMS

ASR	Automobile shredder residue
bgs	Below ground surface
DER	Division of Environmental Remediation
ELAP	Environmental Laboratory Accreditation Program
IDW	Investigation-derived waste
NYCRR	New York State Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
PCB	Polychlorinated biphenyl
PFAS	Per- and polyfluoroalkyl substances
PID	Photoionization detector
ppm	parts per million
SVOC	Semi-volatile organic compound
TAL	Target Analyte List
TP	Test pit
VOC	Volatile organic compound

SECTION 1

INTRODUCTION

This Site Characterization Report presents the methods employed for and results from the site characterization conducted at the CNY Car Crushers Site in Hastings, New York. Polychlorinated biphenyls (PCBs), cadmium, lead and mercury had previously been identified at the site, part of which is adjacent to a residential area.

Parsons completed the site characterization during April and May 2018 under Work Assignment #34 of Contract No. D007623 with the New York State Department of Environmental Conservation (NYSDEC). Sampling and analyses were conducted pursuant to a work scope that had been approved by the NYSDEC (Parsons 2017). Data obtained during the site characterization have been compiled and evaluated and are summarized in this report.

SECTION 2

PROJECT BACKGROUND AND OBJECTIVES

The CNY Car Crushers site is within an undeveloped parcel on Hogs Back Road in the Town of Hastings, Oswego County, New York (Figure 1). The parcel is partially open fields and partially wooded. It is bound to the north by Hogs Back Road, to the west by US Route 11, to the east by Delta Road, and to the south by Belva Boulevard. The CNY Car Crushers site is in the northeastern corner of the parcel, with residences adjacent to the north and east of the site's waste disposal area. The area of concern that was characterized occupies approximately 6.5 acres of the 23-acre parcel. The NYSDEC site number is 738048.

The property was wholly owned by CNY Car Crushers. CNY Car Crushers formerly used the site to dispose of automobile shredder residue (ASR).

The primary contaminants of concern identified at the site are PCBs, cadmium, lead and mercury. These were first identified in soil and waste samples collected by InteGreyted Consultants on October 17, 2002. PCBs were present in concentrations up to 700 parts per million (ppm). Elevated concentrations of metals such as mercury, lead, and chromium were also detected in these samples.

The purpose of this site characterization was to determine the physical extent of the ASR waste, whether contamination is present in surface and subsurface soils, and if groundwater quality is being impacted.

Residences in the immediate vicinity of the site receive drinking water supplied by the Onondaga County Water Authority with water sourced from Lake Ontario. Municipal water is available to all surrounding residences, but it is not confirmed if all have hooked up to the supply or if there are still private wells being utilized in the area.

SECTION 3

SITE CHARACTERIZATION METHODS AND RESULTS

The 2018 site characterization scope of work, field methods and results are described in the following subsections.

3.1 2018 SITE CHARACTERIZATION SCOPE OF WORK

The scope of work for the 2018 site characterization consisted of the following activities:

1. Geophysical investigation to locate subsurface utilities
2. Test pit excavations to identify the lateral and vertical limits of the ASR fill material
3. Subsurface soil investigation
4. Surface soil investigation
5. Monitoring well installations and groundwater sampling
6. Determination of coordinates and elevations of the sample locations

Field activities were conducted in accordance with the Scope of Work (Parsons 2017) and the generic Health and Safety Plan (Parsons and OBG 2011b) prepared and approved for Parsons' contract D007623 with NYSDEC. Site-specific elements and specific job safety analyses for test pit excavations, soil sampling, and monitoring well installation were added to the Health and Safety Plan.

3.2 ANALYTICAL SERVICES

Analytical services for water, soil, and waste samples were provided by TestAmerica Laboratories of Buffalo, New York (TestAmerica). TestAmerica is accredited under the National Environmental Laboratory Approval Program and Department of Defense Environmental Laboratory Accreditation Program (ELAP) and is a New York State Department of Health ELAP-certified laboratory (Lab ID 11522).

3.3 GEOPHYSICAL INVESTIGATION

A geophysical survey was performed at the site to locate subsurface utility lines before subsurface borings and test pit excavations were begun. A combination of electrical tracing and magnetic techniques was used. No subsurface utilities were found at the site.

3.4 TEST PIT INVESTIGATION

As shown on Figures 2 and 3, 21 test pits (TP-01 to TP-21) were excavated to visually identify automobile shredder fluff and determine the extent of the waste. Test pit locations were selected based on the site topography, which suggested the placement of waste was within an elevated area in the northeast corner of the property. Test pits were dug with a mini-excavator on April 9, 2018. Observations from visual inspection of the test pit excavations are summarized below:

- TP-01 through TP-09 were completed along the toe of the slope of the elevated area thought to be the primary ASR disposal area. Samples were collected at TP-01 and TP-08 for analysis to characterize the waste. These samples were analyzed for PCBs and Target Analyte List (TAL) metals.

- Test pits TP-01 through TP-04 were completed along the south side of the slope. They consisted of shredder fluff immediately below the surface with medium brown sand underlying the shredder fluff at the bottom of the slope. The shredder fluff consisted of dark brown material containing wires, metal, plastic, and textiles.
- TP-05 was completed on a mound next to the eastern toe of the slope. It consisted of medium brown sand with no shredder fluff. The purpose of this location was to assess whether numerous mounds in the area were waste or soil piles.
- TP-06 and TP-07 were completed along the east toe of the slope. TP-06 consisted of household trash, including cans, bottles and tires. TP-07 contained dark brown shredder fluff in the top few inches, underlain by medium brown soil.
- TP-08 and TP-09 were completed along the southwest toe of the slope and contained shredder fluff underlain by light brown soil.
- TP-10 was completed east of the slope, beyond the expected limits of the waste. No shredder fluff was found at this location.
- TP-11 through TP-14 were completed along the northeast portion of the fill, near the back yards of neighboring residences. Waste samples were collected for analysis at TP-11, TP-12, and TP-14. In test pits TP-11, TP-12, and TP-14, shredder fluff and mixed debris was found to extend more than 2 feet below ground surface (bgs). TP-13 contained soil and cobbles with no shredder fluff.
- TP-15 was completed on a large mound in the center of the ASR waste mass. The test pit contained medium brown sand with no automobile shredder fluff.
- TP-16 through TP-18 were completed along the northwest portion of the fill, near the back yards of neighboring residences. TP-16 consisted of medium brown sand from 0 to 5 feet bgs, underlain by shredder fluff and tires. TP-17 and TP-18 consisted of soil with no waste.
- TP-19 was completed along the western edge of the waste area. The test pit had 1 foot of clean soil underlain by shredder fluff. The test pit was stopped at 3 feet bgs. The bottom of the ASR waste was not encountered.
- TP-20 and TP-21 were completed west of the expected fill area. Neither test pit contained shredder fluff.

In general, the extent of the ASR waste is defined by elevated topography on the south, southeast and southwest sides of the waste mass. It is very close to the northern property line and adjacent to residential back yards. The waste appears to have been placed on top of the ground surface and covered with a layer of soil with varying thickness. Due to the limited reach of the mini-excavator, it was not possible to determine the lower extent of the waste in test pits excavated on top of the waste mass.

Table 1 summarizes the validated laboratory results. Test pit samples were analyzed for PCBs and TAL metals. Total PCBs exceeded Part 370-6.8(a) criteria for unrestricted and residential use in all sample locations. Additionally, concentrations of cadmium, chromium, copper, lead, mercury, nickel and zinc were above unrestricted and/or residential use criteria in all test pit samples. Various test pit sample concentrations exceeded unrestricted and/or residential use criteria for arsenic, barium, manganese, and silver. Note that the soil samples were analyzed for total chromium and there is no NYSDEC soil quality criterion for total chromium. To screen the sample results, the total chromium concentrations were compared to the hexavalent chromium unrestricted and residential use criteria. Sample concentrations for total chromium that exceed the hexavalent chromium criteria suggest further characterization may be warranted.

3.5 SUBSURFACE INVESTIGATION

3.5.1 SOIL BORINGS

As shown on Figure 4, six soil borings were drilled on site to assess the vertical extent of the ASR within the waste mass and to collect subsurface soil samples to characterize the presence of PCBs and TAL metals contamination. Borings were advanced with hollow-stem augers, and soil samples were collected using a 2-foot split spoon sampler. Soil from each sample was evaluated for moisture content, grain size and color. The sample headspace was screened using a photoionization detector (PID). Boring logs are included in Appendix A.

Two soil samples were collected from each boring and submitted for chemical analyses. One sample was collected from the waste, and one sample was collected from near the bottom of the boring, beneath the waste, to assess whether contamination from the waste is migrating from the waste downward through the soil column.

Table 2 summarizes the laboratory analytical results. Soil and waste samples were analyzed for PCBs and TAL metals. PCB concentrations in waste samples collected at all boring locations were higher than the unrestricted and residential use soil quality criteria. The PCB concentration in the soil sample collected at SB-02 at 14 to 15 feet bgs, beneath the waste, exceeded the unrestricted but not residential use soil quality criterion.

Several metals concentrations in each waste sample exceeded the applicable soil quality criteria. However, the soil samples collected from beneath the waste did not exceed any soil quality criteria. All borings had concentrations of cadmium, chromium copper, lead, mercury, nickel, and zinc that exceeded the unrestricted and/or residential soil quality criteria. In some samples, concentrations of arsenic, barium, selenium, and silver also exceeded soil quality criteria.

3.5.2 WELL INSTALLATION

As shown in Figure 5, three monitoring wells were installed to assess groundwater quality impacts at the site. Monitoring well locations were selected along the northern property line, close to the nearest residences, and on the southeast and southwest sides of the waste area. The borings for the monitoring wells were drilled with hollow-stem augers. The wells were constructed with 2-inch inside-diameter polyvinyl chloride casing with a 10-foot long, 10-slot screen. Following installation, the monitoring wells were developed to remove material that may have settled in and around the well screen and sand pack. Development water was contained in drums and stored on site for waste characterization. Well construction and development logs are included in Appendix A.

3.5.3 GROUNDWATER SAMPLING AND ANALYSIS

Once well installation and development was complete, the three new monitoring wells were sampled on May 14, 2018, using low-flow sampling techniques. Groundwater sampling logs are included in Appendix B. Prior to sampling, water levels were measured in each well. Those water level depths were converted to elevations and plotted to determine the groundwater flow direction. Figure 6 depicts the groundwater flow pattern for the July 2018 sampling event. Groundwater flow was in a northeasterly direction, toward the residences on Hogsback Road.

Groundwater samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs, TAL metals, and per- and polyfluoroalkyl substances (PFAS). The analytical program used the data quality objectives and quality assurance objectives described in Section 3.2. Groundwater analytical results were compared to New York State groundwater quality standards and guidance values. Table 3 summarizes concentrations of detected organic compounds and metals in groundwater. The concentration of manganese and the combined concentrations of perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) in

the sample from MW-1 were the only cases in which NYSDEC Class GA Groundwater standards or guidance values were exceeded. MW-1 is located within the waste mass on the downgradient edge.

3.6 SURFACE SOIL INVESTIGATION

As shown in Figure 7, 10 surface soil samples were collected to assess surface soil quality. The sample locations were selected to characterize the waste mass and surrounding area.

Table 4 summarizes the analytical results. Soil samples were analyzed for PCBs and TAL metals. The analytical program used the data quality objectives and quality assurance objectives described in Section 3.2.

S6 was the only sample with a total PCB concentration that was higher than both the unrestricted and residential use soil quality criteria. Samples S1, S2, S3, S5, S7, S8, and S10 all had total PCB concentrations above the unrestricted use criterion, but all were below the residential use criterion. PCBs were not detected in samples S4 and S9.

S6, S8, and S10 were the only samples with metals concentrations exceeding soil quality criteria. Concentrations of cadmium, chromium, copper, lead, mercury, nickel, and zinc in samples S6 and S8 exceeded the unrestricted and/or residential land use criteria. In S10 the concentration of mercury was above the unrestricted use criterion but below the residential criterion.

3.7 SITE SURVEY

Following the site characterization fieldwork, the coordinates and elevations of the sample points, wells and test pits were determined by a subcontracted licensed surveyor. Horizontal survey data were based on the North American Datum of 1983 New York State Plane (Central Zone) coordinate system (in feet). Elevations were based on the North American Vertical Datum of 1988. Site survey information from the 2018 field effort is included in Appendix C.

3.8 WASTE CHARACTERIZATION

Investigation-derived waste (IDW), including excess soils, well development water and purge water, were placed in Department of Transportation-approved, 55-gallon, 17-H type drums. The IDW was evaluated as nonhazardous based on characterization sample results and will be disposed of in accordance with applicable NYSDEC regulations.

3.9 CONCLUSIONS AND RECOMMENDATIONS

The waste area of the CNY Car Crushers site appears to be concentrated in the northeast portion of the property, on and above the slope. No evidence of automobile shredder waste was found below the toe of the slope or in the mounds of soil scattered around the site.

All test pit and subsurface soil samples had PCB concentrations higher than either unrestricted or residential use soil quality criteria. There were also several metals concentrations above unrestricted or residential use soil quality criteria. Samples taken at the bottom of the borings (between 7 and 15 feet bgs) were less impacted. PCB and metals data show elevated concentrations throughout the waste area rather than concentrated areas of contamination.

The concentration of manganese and the combined concentrations of perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) in the sample from MW-1 exceeded the NYSDEC Class GA Groundwater

standards. MW-1 is within the waste mass, downgradient of MW-2 and MW-3. No other exceedances of Class GA standards or guidance values were detected in MW-1, MW-2 or MW-3.

All surface soil samples except for S4 and S9 had PCB concentrations above unrestricted or residential use soil quality criteria. Both S4 and S9 are outside the expected waste disposal area; however, they are not the only locations outside the area. S1, S8, and S10 are also outside the expected waste area. S6 and S8 had the highest number of parameters with concentrations above unrestricted or residential use soil quality criteria.

SECTION 4

REFERENCES

Cited References

Parsons. 2017. *Scope of Work (Schedule 1) for: Site Characterization For the CNY Car Crushers Site*. Prepared for the New York State Department of Environmental Conservation. October.

Parsons and OBG. 2011b. *Generic/Site-Specific Health and Safety Plan*. Prepared for the New York State Department of Environmental Conservation, Albany, NY. May.

Related References

NYSDEC. 2006. 6 NYCRR¹ Part 375 *Environmental Remediation Programs. Subparts 375-1 to 375-4 & 375-6*. New York State Department of Environmental Conservation. September.

NYSDEC. 2010. *DEC Program Policy DER²-10 / Technical Guidance for Site Investigation and Remediation*. New York State Department of Environmental Conservation. May.

Parsons and OBG. 2011a. *Generic Quality Assurance Project Plan*. Prepared for the New York State Department of Environmental Conservation, Albany, NY. May.

¹ NYCRR – New York State Codes, Rules and Regulations

² DER – Division of Environmental Remediation

TABLES

Table 1
2018 Test Pit Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Test Pit Data SDG: 480-133903 Detected Compound Summary		Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives ¹	Part 375-6.8(a) Residential Use Soil Cleanup Objectives ²	Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	7-CAR-001-TP-01 7-CAR-001-06 480-133903-6 3 - 5 ft TALBUFF 4801339031 SO 4/9/2018 15:45	7-CAR-001-TP--08 7-CAR-001-05 480-133903-5 3 - 5 ft TALBUFF 4801339031 SO 4/9/2018 15:30	7-CAR-001-TP-11 7-CAR-001-02 480-133903-2 2 - 7 ft TALBUFF 4801339031 SO 4/9/2018 12:00	7-CAR-001-TP-12 7-CAR-001-01 480-133903-1 2 - 7 ft TALBUFF 4801339031 SO 4/9/2018 11:27
CAS NO.	COMPOUND			UNITS:				
53469-21-9 12672-29-6 11097-69-1	PCBs							
	PCB-1242 (Aroclor 1242)			mg/kg	ND	ND	ND	66
	PCB-1248 (Aroclor 1248)			mg/kg	180	1.6	20	ND
	PCB-1254 (Aroclor 1254)			mg/kg	ND	2.6	32	45
	Total PCBs	0.1	1	mg/kg	180	4.2	52	111
7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-62-2 7440-66-6	METALS							
	Aluminum	NS	NS	mg/kg	9860 T	4700	5450	3690
	Antimony	NS	NS	mg/kg	63.6 T	7.5 J	16.6 J	9.2 J
	Arsenic	13	16	mg/kg	19.8	4.6	14.7	22.2
	Barium	350	350	mg/kg	939	262	787	862
	Beryllium	7.2	14	mg/kg	0.24 J	0.15 J	0.21 J	0.16 J
	Cadmium	2.5	2.5	mg/kg	192 T	21.9	42.8	66.6
	Calcium	NS	NS	mg/kg	33100	9400	13800	18500
	Chromium, Total*	1*	22*	mg/kg	310 T	36.1	106	125
	Cobalt	NS	NS	mg/kg	130 T	9.2	31.2	28.1
	Copper	50	270	mg/kg	28600 T	223	2130	378
	Iron	NS	NS	mg/kg	189000 BT	37900 B	73500 B	150000 B
	Lead	63	400	mg/kg	5980	327	1850	2050
	Magnesium	NS	NS	mg/kg	5110 T	1780 B	7520	5730
	Manganese	1600	2000	mg/kg	1920 B	455 B	487 B	802 B
	Mercury	0.18	0.81	mg/kg	39.2 T	0.92	3.4	3.1
	Nickel	30	140	mg/kg	1120	50.6	208	395
	Potassium	NS	NS	mg/kg	901	744	374	511
	Selenium	3.9	36	mg/kg	2.3 J	ND	ND	1.8 J
	Silver	2	36	mg/kg	52.2 T	0.57 J	4.6	3.8 J
	Sodium	NS	NS	mg/kg	1750 BT	138 BJ	263 B	351 B
	Vanadium	NS	NS	mg/kg	19.5	10.2	11.3	12.1
	Zinc	109	2200	mg/kg	9760 T	1380	3690	5990

¹Criteria is 6 NYCRR PART 375-6.8(a) Unrestricted Use Soil Cleanup Objective, 2006.

²Criteria is 6 NYCRR PART 375-6.8(b) Restricted Use Soil Cleanup Objective, 2006.

* Data are compared to hexavalent chromium: unrestricted use is 1 mg/kg, residential use is 22 mg/kg

Bold	Indicates concentration exceeds Unrestricted Use criteria.
Bold	Indicates concentration exceeds Unrestricted Use and Residential criteria.
ND	Indicates compound was not detected.
NS	No standard or guidance value available.
J	Indicates an estimated concentration.
B	Compound was found in the blank and sample
T	MS/MSD is outside acceptance limits

Table 1
2018 Test Pit Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Test Pit Data SDG: 480-133903 Detected Compound Summary		Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives ¹	Part 375-6.8(a) Residential Use Soil Cleanup Objectives ²	Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	7-CAR-001-TP-12 7-CAR-001-04 480-133903-4 2 - 7 ft TALBUFF 4801339031 SO 4/9/2018 0:00	7-CAR-001-TP-14 7-CAR-001-03 480-133903-3 3 - 6.5 ft TALBUFF 4801339031 SO 4/9/2018 13:27
CAS NO.	COMPOUND			UNITS:		
	PCBs					
53469-21-9	PCB-1242 (Aroclor 1242)			mg/kg	ND	ND
12672-29-6	PCB-1248 (Aroclor 1248)			mg/kg	43	5.8
11097-69-1	PCB-1254 (Aroclor 1254)			mg/kg	46	7.6
	Total PCBs	0.1	1	mg/kg	89	13.4
	METALS					
7429-90-5	Aluminum	NS	NS	mg/kg	4120	5880
7440-36-0	Antimony	NS	NS	mg/kg	36.9	19.5
7440-38-2	Arsenic	13	16	mg/kg	18.6	10.3
7440-39-3	Barium	350	350	mg/kg	1740	629
7440-41-7	Beryllium	7.2	14	mg/kg	0.18 J	0.28
7440-43-9	Cadmium	2.5	2.5	mg/kg	58.6	18.8
7440-70-2	Calcium	NS	NS	mg/kg	23100	19000
7440-47-3	Chromium, Total*	1*	22*	mg/kg	118	58.5
7440-48-4	Cobalt	NS	NS	mg/kg	23.5	14.5
7440-50-8	Copper	50	270	mg/kg	645	210
7439-89-6	Iron	NS	NS	mg/kg	133000 B	53300 B
7439-92-1	Lead	63	400	mg/kg	2460	1160
7439-95-4	Magnesium	NS	NS	mg/kg	5080	8160 B
7439-96-5	Manganese	1600	2000	mg/kg	701 B	644 B
7439-97-6	Mercury	0.18	0.81	mg/kg	3.7	1.8
7440-02-0	Nickel	30	140	mg/kg	403	121
7440-09-7	Potassium	NS	NS	mg/kg	589	1060
7782-49-2	Selenium	3.9	36	mg/kg	1.5 J	ND
7440-22-4	Silver	2	36	mg/kg	2 J	0.67 J
7440-23-5	Sodium	NS	NS	mg/kg	585 B	192 B
7440-62-2	Vanadium	NS	NS	mg/kg	13	14.5
7440-66-6	Zinc	109	2200	mg/kg	6120	1950

¹Criteria is 6 NYCRR PART 375-6.8(a) Unrestricted Use Soil Cleanup Objective, 2006.

²Criteria is 6 NYCRR PART 375-6.8(b) Restricted Use Soil Cleanup Objective, 2006.

* Data are compared to hexavalent chromium: unrestricted use is 1 mg/kg, residential use is 22 mg/kg

	Indicates concentration exceeds Unrestricted Use criteria.
Bold	Indicates concentration exceeds Unrestricted Use and Residential criteria.
ND	Indicates compound was not detected.
NS	No standard or guidance value available.
J	Indicates an estimated concentration.
B	Compound was found in the blank and sample
T	MS/MSD is outside acceptance limits

Table 2
2018 Soil Boring Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Soil Borings SDG: 480-134200 Detected Compound Summary		Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives ¹	Part 375-6.8(a) Residential Use Soil Cleanup Objectives ²	Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled:	7-CAR-001-SB-01 7-CAR-001-002-01 480-134200-1 5 - 7 ft TALBUFF 4801342001 SO 4/11/2018 9:15	7-CAR-001-SB-01 7-CAR-001-002-02 480-134200-2 15 - 16 ft TALBUFF 4801342001 SO 4/11/2018 9:45	7-CAR-001-SB-02 7-CAR-001-002-03 480-134200-3 6 - 7 ft TALBUFF 4801342001 SO 4/11/2018 11:30	7-CAR-001-SB-02 7-CAR-001-002-04 480-134200-4 14 - 15 ft TALBUFF 4801342001 SO 4/11/2018 11:45
CAS NO.	COMPOUND			UNITS:				
12674-11-2 11097-69-1	PCBs							
	PCB-1016 (Aroclor 1016)			mg/kg	120		16	0.18 J
	PCB-1254 (Aroclor 1254)			mg/kg	83		11	0.17 J
	Total PCBs	0.1	1	mg/kg	203		27	0.35
	METALS							
7429-90-5	Aluminum	NS	NS	mg/kg	5720 T	3180	4670	3920
7440-36-0	Antimony	NS	NS	mg/kg	17.3 J	ND	10.5 J	ND
7440-38-2	Arsenic	13	16	mg/kg	12.7 T	1 J	4.2	0.95 J
7440-39-3	Barium	350	350	mg/kg	741	42.2	257	39.2
7440-41-7	Beryllium	7.2	14	mg/kg	0.2 JT	0.12 J	0.18 J	0.15 J
7440-43-9	Cadmium	2.5	2.5	mg/kg	66.5 T	ND	16.3	0.27
7440-70-2	Calcium	NS	NS	mg/kg	22000 BT	796 B	4600 B	887 B
7440-47-3	Chromium, Total*	1*	22*	mg/kg	1050	3.6	26	4.9
7440-48-4	Cobalt	NS	NS	mg/kg	36.5 T	2.1	10	2.5
7440-50-8	Copper	50	270	mg/kg	1790 T	4.8	844	26.6
7439-89-6	Iron	NS	NS	mg/kg	112000 B	5790 B	28800 B	6720 B
7439-92-1	Lead	63	400	mg/kg	1900	1.3	451	10.1
7439-95-4	Magnesium	NS	NS	mg/kg	3890	1300	2100	1430
7439-96-5	Manganese	1600	2000	mg/kg	812 T	185 B	405 B	188 B
7439-97-6	Mercury	0.18	0.81	mg/kg	7.5	ND	0.81	0.17
7440-02-0	Nickel	30	140	mg/kg	255 T	4.3 J	62	6 J
7440-09-7	Potassium	NS	NS	mg/kg	701 T	857	816	930
7782-49-2	Selenium	3.9	36	mg/kg	3.7 J	ND	1.8 J	ND
7440-22-4	Silver	2	36	mg/kg	15 T	ND	1.6	ND
7440-23-5	Sodium	NS	NS	mg/kg	353 B	35.6 BJ	249 B	45.9 BJ
7440-62-2	Vanadium	NS	NS	mg/kg	57.6 T	6.5	9.6	7.8
7440-66-6	Zinc	109	2200	mg/kg	5290	10.3	1150	32.1

¹Criteria is 6 NYCRR PART 375-6.8(a) Unrestricted Use Soil Cleanup Objective, 2006.

²Criteria is 6 NYCRR PART 375-6.8(b) Restricted Use Soil Cleanup Objective, 2006.

*Data are compared to hexavalent chromium: unrestricted use is 1 mg/kg, residential use is 22 mg/kg

	Indicates concentration exceeds Unrestricted Use criteria.
Bold	Indicates concentration exceeds Unrestricted Use and Residential criteria.
ND	Indicates compound was not detected.
NS	No standard or guidance value available.
J	Indicates an estimated concentration.
B	Compound was found in the blank and sample
T	MS/MSD is outside acceptance limits

Table 2
2018 Soil Boring Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Soil Borings SDG: 480-134200 Detected Compound Summary		Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives ¹	Part 375-6.8(a) Residential Use Soil Cleanup Objectives ²	Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled:	7-CAR-001-SB-03 7-CAR-001-002-05 480-134200-5 8 - 9 ft TALBUFF 4801342001 SO 4/11/2018 13:00	7-CAR-001-SB-03 7-CAR-001-002-06 480-134200-6 10 - 11 ft TALBUFF 4801342001 SO 4/11/2018 13:10	7-CAR-001-SB-04 7-CAR-001-002-07 480-134200-7 5 - 6 ft TALBUFF 4801342001 SO 4/11/2018 14:20	7-CAR-001-SB-04 7-CAR-001-002-08 480-134200-8 12 - 14 ft TALBUFF 4801342001 SO 4/11/2018 14:25
CAS NO.	COMPOUND			UNITS:				
12674-11-2 11097-69-1	PCBs							
	PCB-1016 (Aroclor 1016)			mg/kg	5.1		1.8	
	PCB-1254 (Aroclor 1254)			mg/kg	7.8		5.6	
	Total PCBs	0.1	1	mg/kg	12.9		7.4	
	METALS							
7429-90-5	Aluminum	NS	NS	mg/kg	2660	3740	4880	4210
7440-36-0	Antimony	NS	NS	mg/kg	20.3 J	ND	85.2	ND
7440-38-2	Arsenic	13	16	mg/kg	13.5	1.1 J	27.5	1.7 J
7440-39-3	Barium	350	350	mg/kg	1480	13.7	1110	18
7440-41-7	Beryllium	7.2	14	mg/kg	0.097 J	0.16 J	0.18 J	0.17 J
7440-43-9	Cadmium	2.5	2.5	mg/kg	26.7	ND	35.8	ND
7440-70-2	Calcium	NS	NS	mg/kg	24300 B	933 B	14100 B	2750 B
7440-47-3	Chromium, Total*	1*	22*	mg/kg	142	4.3	135	5.9
7440-48-4	Cobalt	NS	NS	mg/kg	17.9	2.3	19.9	3
7440-50-8	Copper	50	270	mg/kg	504	6.7	858	10.7
7439-89-6	Iron	NS	NS	mg/kg	122000 B	6170 B	101000 B	8340 B
7439-92-1	Lead	63	400	mg/kg	1950	2.4	24200	2.2
7439-95-4	Magnesium	NS	NS	mg/kg	10000	1350	4540	2010
7439-96-5	Manganese	1600	2000	mg/kg	685	291 B	797	326 B
7439-97-6	Mercury	0.18	0.81	mg/kg	2.1	ND	2.1	ND
7440-02-0	Nickel	30	140	mg/kg	216	5.1 J	210	6.5
7440-09-7	Potassium	NS	NS	mg/kg	531	1030	656	990
7782-49-2	Selenium	3.9	36	mg/kg	ND	ND	1.3 J	ND
7440-22-4	Silver	2	36	mg/kg	1.2 J	ND	2.7	ND
7440-23-5	Sodium	NS	NS	mg/kg	593 B	52.7 BJ	227 B	38.8 BJ
7440-62-2	Vanadium	NS	NS	mg/kg	12.5	7.6	14	9.3
7440-66-6	Zinc	109	2200	mg/kg	4340	13.5	3600	16.7

¹Criteria is 6 NYCRR PART 375-6.8(a) Unrestricted Use Soil Cleanup Objective, 2006.

²Criteria is 6 NYCRR PART 375-6.8(b) Restricted Use Soil Cleanup Objective, 2006.

*Data are compared to hexavalent chromium: unrestricted use is 1 mg/kg, residential use is 22 mg/kg

	Indicates concentration exceeds Unrestricted Use criteria.
Bold	Indicates concentration exceeds Unrestricted Use and Residential criteria.
ND	Indicates compound was not detected.
NS	No standard or guidance value available.
J	Indicates an estimated concentration.
B	Compound was found in the blank and sample
T	MS/MSD is outside acceptance limits

Table 2
2018 Soil Boring Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Soil Borings SDG: 480-134200 Detected Compound Summary		Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives ¹	Part 375-6.8(a) Residential Use Soil Cleanup Objectives ²	Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	7-CAR-001-SB-05 7-CAR-001-002-09 480-134200-9 10 - 10.5 ft TALBUFF 4801342001 SO 4/12/2018 8:35	7-CAR-001-SB-05 7-CAR-001-002-10 480-134200-10 15 - 16 ft TALBUFF 4801342001 SO 4/12/2018 8:50	7-CAR-001-SB-06 7-CAR-001-002-11 480-134200-11 4 - 5 ft TALBUFF 4801342001 SO 4/12/2018 9:45	7-CAR-001-SB-06 7-CAR-001-002-12 480-134200-12 7 - 9 ft TALBUFF 4801342001 SO 4/12/2018 9:55
CAS NO.	COMPOUND			UNITS:				
12674-11-2 11097-69-1	PCBs							
	PCB-1016 (Aroclor 1016)			mg/kg	10		15	
	PCB-1254 (Aroclor 1254)			mg/kg	20		20	
	Total PCBs	0.1	1	mg/kg	30		35	
	METALS							
7429-90-5	Aluminum	NS	NS	mg/kg	1980	5520	4890	4560
7440-36-0	Antimony	NS	NS	mg/kg	32 J	ND	10.6 J	ND
7440-38-2	Arsenic	13	16	mg/kg	13.3	1.7 J	18.1	1.9 J
7440-39-3	Barium	350	350	mg/kg	1850	16.9	1540	17.6
7440-41-7	Beryllium	7.2	14	mg/kg	0.098 J	0.21 J	0.22 J	0.17 J
7440-43-9	Cadmium	2.5	2.5	mg/kg	37.9	ND	64.1	ND
7440-70-2	Calcium	NS	NS	mg/kg	28200 B	822 B	19600 B	697 B
7440-47-3	Chromium, Total*	1*	22*	mg/kg	134	6.4	150	5.4
7440-48-4	Cobalt	NS	NS	mg/kg	20.1	3.8	23.3	3.1
7440-50-8	Copper	50	270	mg/kg	311	14.6	624	9.1
7439-89-6	Iron	NS	NS	mg/kg	146000 B	10700 B	132000 B	8500 B
7439-92-1	Lead	63	400	mg/kg	1910	2.7	1770	2
7439-95-4	Magnesium	NS	NS	mg/kg	5160	2510	4560	1960
7439-96-5	Manganese	1600	2000	mg/kg	832	622 B	786	460 B
7439-97-6	Mercury	0.18	0.81	mg/kg	3.9	ND	6.9	ND
7440-02-0	Nickel	30	140	mg/kg	192	8.4	294	6.3
7440-09-7	Potassium	NS	NS	mg/kg	343	1160	658	1170
7782-49-2	Selenium	3.9	36	mg/kg	ND	ND	30.9	ND
7440-22-4	Silver	2	36	mg/kg	1.5 J	ND	1.2 J	ND
7440-23-5	Sodium	NS	NS	mg/kg	379 B	34.8 BJ	269 B	26 BJ
7440-62-2	Vanadium	NS	NS	mg/kg	12	10.9	17.2	9.6
7440-66-6	Zinc	109	2200	mg/kg	6010	21.9	4140	17.1

¹Criteria is 6 NYCRR PART 375-6.8(a) Unrestricted Use Soil Cleanup Objective, 2006.

²Criteria is 6 NYCRR PART 375-6.8(b) Restricted Use Soil Cleanup Objective, 2006.

*Data are compared to hexavalent chromium: unrestricted use is 1 mg/kg, residential use is 22 mg/kg

	Indicates concentration exceeds Unrestricted Use criteria.
Bold	Indicates concentration exceeds Unrestricted Use and Residential criteria.
ND	Indicates compound was not detected.
NS	No standard or guidance value available.
J	Indicates an estimated concentration.
B	Compound was found in the blank and sample
T	MS/MSD is outside acceptance limits

Table 3
2018 Groundwater Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Groundwater Data SDG: 480-135867 Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance Values ⁽¹⁾	Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated: UNITS:	7-CAR-001-MW-01 7-CAR-001-003-01 480-135867-1 21 - 26 ft TALBUFF 4801358671 WATER 5/14/2018 8:45	7-CAR-001-MW-02 7-CAR-001-003-03 480-135867-3 9 - 14 ft TALBUFF 4801358671 WATER 5/14/2018 11:30	7-CAR-001-MW-02 7-CAR-001-003-04 480-135867-4 9 - 14 ft TALBUFF 4801358671 WATER 5/14/2018 0:00	7-CAR-001-MW-03 7-CAR-001-003-05 480-135867-5 12 - 19 ft TALBUFF 4801358671 WATER 5/14/2018 14:30
CAS NO.	COMPOUND						
	VOLATILES						
	NONE DETECTED						
	SEMIVOLATILES						
121-14-2	2,4-Dinitrotoluene	5	ug/l	2 J	ND	ND	ND
606-20-2	2,6-Dinitrotoluene	5	ug/l	1.7 J	ND	ND	ND
	PCBs						
	NONE DETECTED						
	METALS						
7440-39-3	Barium	1	mg/l	0.18	0.0059	0.0059	0.0078
7440-70-2	Calcium	NS	mg/l	103	27.7	28.3	5.3
7440-48-4	Cobalt	0.3	mg/l	0.0013 J	ND	ND	ND
7439-89-6	Iron	0.3	mg/l	0.042 J	0.052	0.035 J	ND
7439-95-4	Magnesium	35 (G)	mg/l	13.1	3.7	3.6	0.51
7439-96-5	Manganese	0.3	mg/l	4.4 B	0.016 B	0.016 B	0.0098 B
7440-02-0	Nickel	NS	mg/l	0.0059 J	ND	ND	ND
7440-09-7	Potassium	NS	mg/l	3.1	0.81 B	0.8 B	0.4 BJ
7440-23-5	Sodium	20	mg/l	10.6 B	1.1 B	1 B	1 B
7440-66-6	Zinc	2 (G)	mg/l	0.028	ND	ND	0.0016 J
	PFAs						
375-22-4	PERFLUOROBUTYRIC ACID (PFBA)		ng/l	260	2.4	2.5	ND
307-24-4	PERFLUOROHEXANOIC ACID (PFHxA)		ng/l	5	ND	ND	ND
375-85-9	PERFLUOROHEPTANOIC ACID (PFHpA)		ng/l	5	0.67 J	0.74 J	ND
335-67-1	PERFLUOROOCTANOIC ACID (PFOA)		ng/l	30	2.2	2	ND
375-95-1	PERFLUORONONANOIC ACID		ng/l	0.69 J	ND	ND	ND
375-73-5	PERFLUOROBUTANESULFONIC ACID		ng/l	2.3	0.62 J	0.72 J	ND
355-46-4	PERFLUOROHEXANESULFONIC ACID		ng/l	6.1 B	0.62 BJ	0.62 BJ	0.36 BJ
375-92-8	PERFLUOROHEPTANE SULFONATE (PFHpS)		ng/l	0.69 J	ND	ND	ND
1763-23-1	PERFLUOROOCTANE SULFONIC ACID (PFOS)		ng/l	44	2.2	2.3	0.84 J
27619-97-2	SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2)		ng/l	ND	ND	ND	2.9 J
	PFOA + PFOS	70	ng/l	74	4.4	4.3	0.84

¹Criteria are Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitation for the protection of drinking water (Water Class - GA), June 1998.

Indicates concentration exceeds standard or guidance value.

(G) Indicates guidance value.

ND Indicates compound was not detected.

NS No standard or guidance value available.

J Indicates an estimated concentration.

B Compound was found in the blank and sample.

Table 4
2018 Surface Soil Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Surface Soil Data SDG: 480-135920 Detected Compound Summary		Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives ¹	Part 375-6.8(a) Residential Use Soil Cleanup Objectives ²	Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	7-CAR-001-S1 7-CAR-001-004-01 480-135920-1 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:00	7-CAR-001-S10 7-CAR-001-004-10 480-135920-10 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:45	7-CAR-001-S2 7-CAR-001-004-02 480-135920-2 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:05	7-CAR-001-S3 7-CAR-001-004-03 480-135920-3 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:10
CAS NO.	COMPOUND			UNITS:				
11097-69-1 11096-82-5	PCBs							
	PCB-1254 (Aroclor 1254)			mg/kg	0.23 J	ND	0.12 J	ND
	PCB-1260 (Aroclor 1260)			mg/kg	ND	0.16 J	ND	0.2 J
	Total PCBs	0.1	1	mg/kg	0.23	0.16	0.12	0.2
	METALS							
7429-90-5	Aluminum	NS	NS	mg/kg	4540 T	5820	6510	7460
7440-36-0	Antimony	NS	NS	mg/kg	0.67 J	0.78 J	3.5 J	0.7 J
7440-38-2	Arsenic	13	16	mg/kg	1.7 J	2.5	2 J	2.4 J
7440-39-3	Barium	350	350	mg/kg	39.7	36.1	123	49.6
7440-41-7	Beryllium	7.2	14	mg/kg	0.13 J	0.21 J	0.14 J	0.16 J
7440-43-9	Cadmium	2.5	2.5	mg/kg	1.1	0.57	0.87	1.2
7440-70-2	Calcium	NS	NS	mg/kg	1100 B	937 B	7580 B	1110 B
7440-47-3	Chromium, Total*	1*	22*	mg/kg	6.5	8.7	7.9	8.1
7440-48-4	Cobalt	NS	NS	mg/kg	2.6	3.4	2.6	3.2
7440-50-8	Copper	50	270	mg/kg	25.9	31	19.6	24.4
7439-89-6	Iron	NS	NS	mg/kg	9230	13400	9590	10800
7439-92-1	Lead	63	400	mg/kg	42.1	39.1	22.3	31
7439-95-4	Magnesium	NS	NS	mg/kg	1300	1910	1770	1340
7439-96-5	Manganese	1600	2000	mg/kg	345 B	292 B	761 B	554 B
7439-97-6	Mercury	0.18	0.81	mg/kg	0.032	0.32	0.028	0.061
7440-02-0	Nickel	30	140	mg/kg	7.8 T	9.8	6.9	8.1
7440-09-7	Potassium	NS	NS	mg/kg	436 T	643	583	529
7440-22-4	Silver	2	36	mg/kg	ND	ND	ND	ND
7440-23-5	Sodium	NS	NS	mg/kg	16.9 J	24.8 J	29.6 J	25 J
7440-62-2	Vanadium	NS	NS	mg/kg	8.9	11.8	13.3	14.4
7440-66-6	Zinc	109	2200	mg/kg	104 T	93.9	71.2	96

¹Criteria is 6 NYCRR PART 375-6.8(a) Unrestricted Use Soil Cleanup Objective, 2006.

²Criteria is 6 NYCRR PART 375-6.8(b) Restricted Use Soil Cleanup Objective, 2006.

*Data are compared to hexavalent chromium: unrestricted use is 1 mg/kg, residential use is 22 mg/kg

	Indicates concentration exceeds Unrestricted Use criteria.
Bold	Indicates concentration exceeds Unrestricted Use and Residential criteria.
ND	Indicates compound was not detected.
NS	No standard or guidance value available.
J	Indicates an estimated concentration.
B	Compound was found in the blank and sample
T	MS/MSD is outside acceptance limits

Table 4
2018 Surface Soil Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Surface Soil Data SDG: 480-135920 Detected Compound Summary		Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives ¹	Part 375-6.8(a) Residential Use Soil Cleanup Objectives ²	Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	7-CAR-001-S4 7-CAR-001-004-04 480-135920-4 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:15	7-CAR-001-S5 7-CAR-001-004-05 480-135920-5 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:20	7-CAR-001-S6 7-CAR-001-004-06 480-135920-6 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:25	7-CAR-001-S7 7-CAR-001-004-07 480-135920-7 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:30
CAS NO.	COMPOUND			UNITS:				
11097-69-1	PCBs			mg/kg	ND	0.12 J	1.3	0.14 J
11096-82-5	PCB-1254 (Aroclor 1254)			mg/kg	ND	ND	ND	ND
	PCB-1260 (Aroclor 1260)							
	Total PCBs	0.1	1	mg/kg	ND	0.12	1.3	0.14
	METALS							
7429-90-5	Aluminum	NS	NS	mg/kg	6200	5490	4300	3570
7440-36-0	Antimony	NS	NS	mg/kg	ND	0.58 J	21.2 J	0.6 J
7440-38-2	Arsenic	13	16	mg/kg	1.7 J	1.8 J	7.5	1.3 J
7440-39-3	Barium	350	350	mg/kg	29.8	26.9	157	23.1
7440-41-7	Beryllium	7.2	14	mg/kg	0.12 J	0.16 J	0.14 J	0.14 J
7440-43-9	Cadmium	2.5	2.5	mg/kg	0.39	0.92	25.1	0.69
7440-70-2	Calcium	NS	NS	mg/kg	1010 B	1160 B	970 B	1130 B
7440-47-3	Chromium, Total*	1*	22*	mg/kg	5.7	7.1	67.5	5.1
7440-48-4	Cobalt	NS	NS	mg/kg	2.1	3.9	14.3	3
7440-50-8	Copper	50	270	mg/kg	7.5	12.5	270	12.5
7439-89-6	Iron	NS	NS	mg/kg	7940	11900	85900	7990
7439-92-1	Lead	63	400	mg/kg	12.9	13.4	350	24
7439-95-4	Magnesium	NS	NS	mg/kg	979	2190	1520	1630
7439-96-5	Manganese	1600	2000	mg/kg	449 B	422 B	876 B	299 B
7439-97-6	Mercury	0.18	0.81	mg/kg	0.037	0.041	0.24	0.034
7440-02-0	Nickel	30	140	mg/kg	4.2 J	9.1	154	6.6
7440-09-7	Potassium	NS	NS	mg/kg	359	470	452	542
7440-22-4	Silver	2	36	mg/kg	ND	ND	1.8	ND
7440-23-5	Sodium	NS	NS	mg/kg	17.8 J	17.7 J	42.6 J	22 J
7440-62-2	Vanadium	NS	NS	mg/kg	11.8	10.9	11.6	7.5
7440-66-6	Zinc	109	2200	mg/kg	38.3	77.7	964	48

¹Criteria is 6 NYCRR PART 375-6.8(a) Unrestricted Use Soil Cleanup Objective, 2006.

²Criteria is 6 NYCRR PART 375-6.8(b) Restricted Use Soil Cleanup Objective, 2006.

*Data are compared to hexavalent chromium: unrestricted use is 1 mg/kg, residential use is 22 mg/kg

	Indicates concentration exceeds Unrestricted Use criteria.
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J	Indicates an estimated concentration.
B	Compound was found in the blank and sample
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Table 4
2018 Surface Soil Data
Detected Compound Summary

NYSDEC-Car Crusher Site 2018 Site Investigation Surface Soil Data SDG: 480-135920 Detected Compound Summary		Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives ¹	Part 375-6.8(a) Residential Use Soil Cleanup Objectives ²	Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	7-CAR-001-S8 7-CAR-001-004-08 480-135920-8 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:35	7-CAR-001-S9 7-CAR-001-004-09 480-135920-9 0 - 0.1 ft TALBUFF 4801359201 SO 5/15/2018 9:40
CAS NO.	COMPOUND			UNITS:		
11097-69-1 11096-82-5	PCBs					
	PCB-1254 (Aroclor 1254)			mg/kg	ND	ND
	PCB-1260 (Aroclor 1260)			mg/kg	0.49	ND
	Total PCBs	0.1	1	mg/kg	0.49	ND
	METALS					
7429-90-5	Aluminum	NS	NS	mg/kg	7130	5320
7440-36-0	Antimony	NS	NS	mg/kg	3.2 J	0.66 J
7440-38-2	Arsenic	13	16	mg/kg	5.9	2.2
7440-39-3	Barium	350	350	mg/kg	158	30
7440-41-7	Beryllium	7.2	14	mg/kg	0.49	0.19 J
7440-43-9	Cadmium	2.5	2.5	mg/kg	6	0.49
7440-70-2	Calcium	NS	NS	mg/kg	7890 B	534 B
7440-47-3	Chromium, Total*	1*	22*	mg/kg	16.3	6.7
7440-48-4	Cobalt	NS	NS	mg/kg	8.1	3.9
7440-50-8	Copper	50	270	mg/kg	93.9	22.5
7439-89-6	Iron	NS	NS	mg/kg	22900	11700
7439-92-1	Lead	63	400	mg/kg	368	16.1
7439-95-4	Magnesium	NS	NS	mg/kg	3200	1750
7439-96-5	Manganese	1600	2000	mg/kg	620 B	532 B
7439-97-6	Mercury	0.18	0.81	mg/kg	0.19	0.037
7440-02-0	Nickel	30	140	mg/kg	41.6	8.4
7440-09-7	Potassium	NS	NS	mg/kg	616	510
7440-22-4	Silver	2	36	mg/kg	ND	ND
7440-23-5	Sodium	NS	NS	mg/kg	89.9 J	28.6 J
7440-62-2	Vanadium	NS	NS	mg/kg	14.1	10.9
7440-66-6	Zinc	109	2200	mg/kg	713	46.3

¹Criteria is 6 NYCRR PART 375-6.8(a) Unrestricted Use Soil Cleanup Objective, 2006.

²Criteria is 6 NYCRR PART 375-6.8(b) Restricted Use Soil Cleanup Objective, 2006.

*Data are compared to hexavalent chromium: unrestricted use is 1 mg/kg, residential use is 22 mg/kg

	Indicates concentration exceeds Unrestricted Use criteria.
Bold	Indicates concentration exceeds Unrestricted Use and Residential criteria.
ND	Indicates compound was not detected.
NS	No standard or guidance value available.
J	Indicates an estimated concentration.
B	Compound was found in the blank and sample
T	MS/MSD is outside acceptance limits

FIGURES

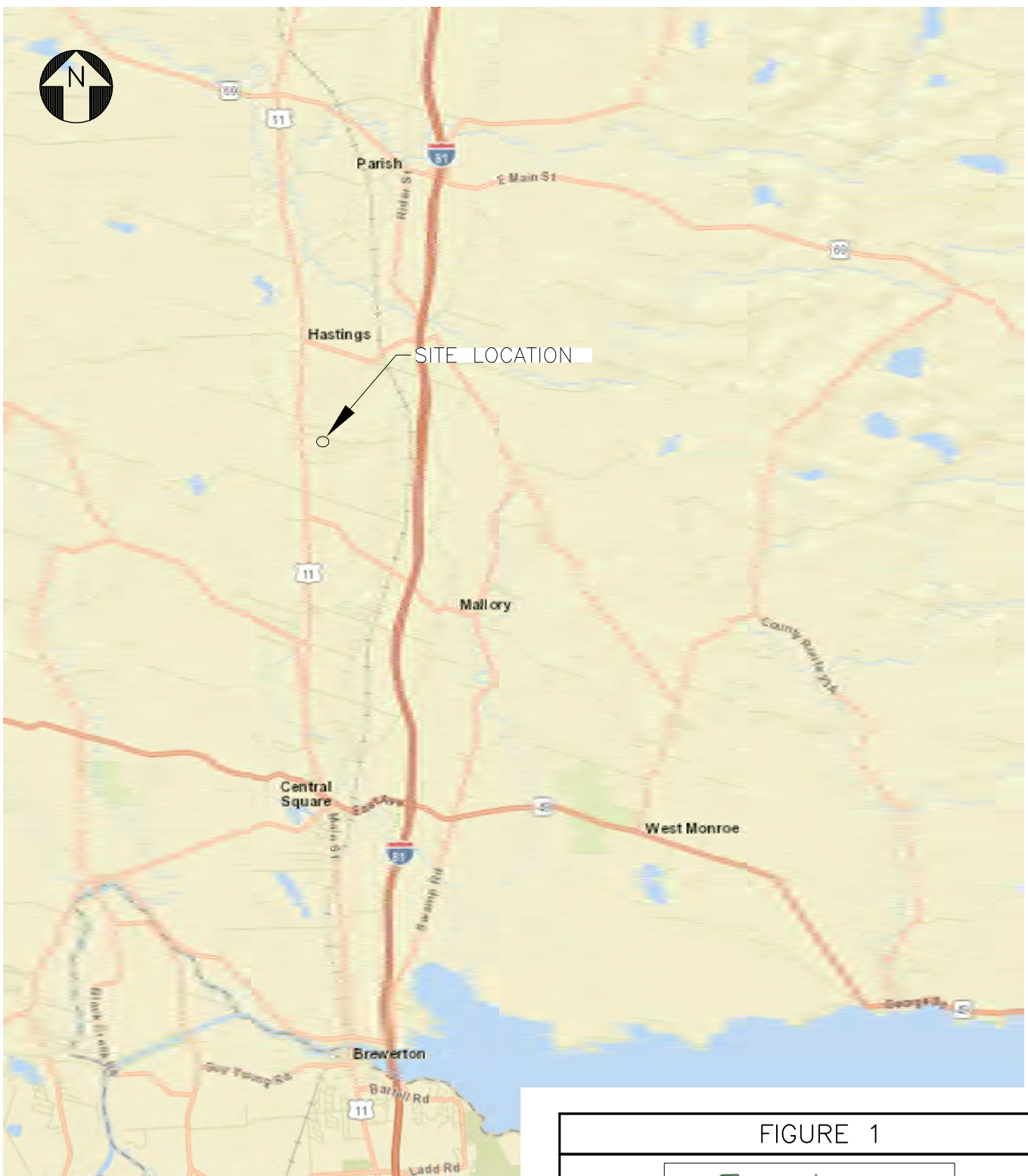


FIGURE 1

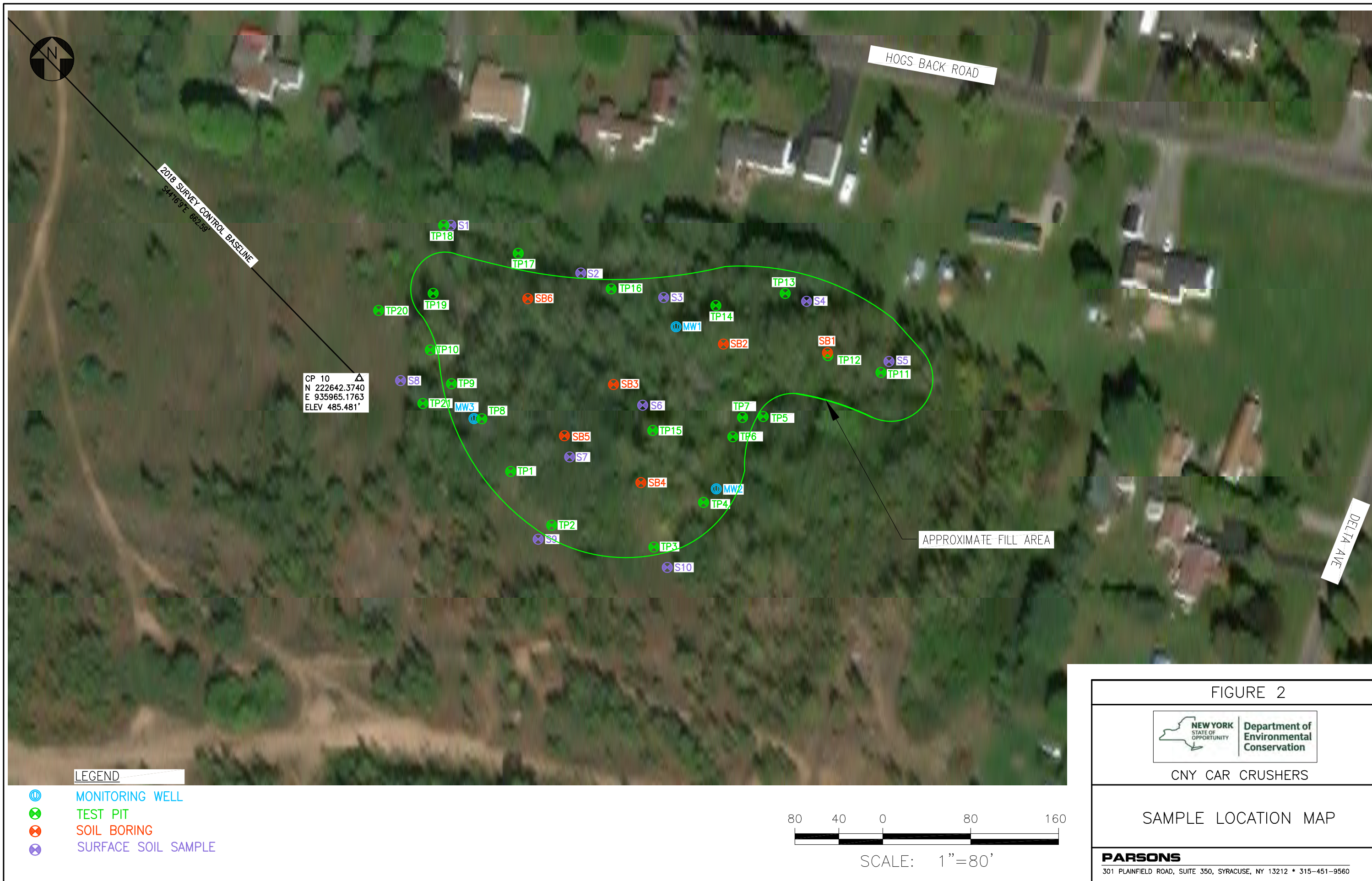


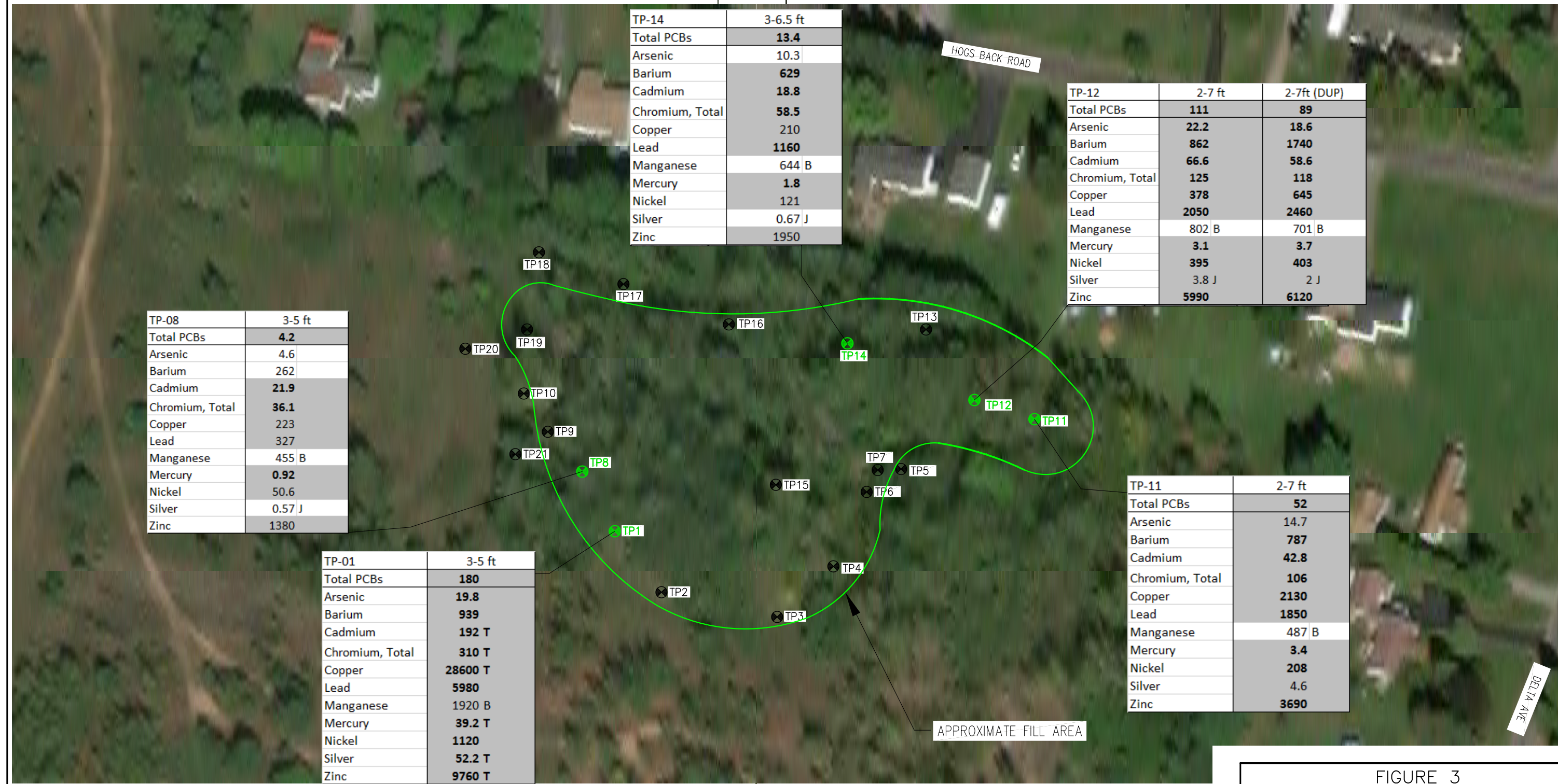
CNY CAR CRUSHERS

SITE LOCATION MAP

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560





LEGEND

● TEST PIT
(Sample Results in mg/kg)

⊗ TEST PIT (NOT SAMPLED)

CONCENTRATIONS COMPARED TO PART 375 RESTRICTED
AND UNRESTRICTED RESIDENTIAL USE CRITERIA

INDICATES CONCENTRATION EXCEEDS UNRESTRICTED USE CRITERIA

Bold INDICATES CONCENTRATION EXCEEDS UNRESTRICTED USE AND RESIDENTIAL CRITERIA

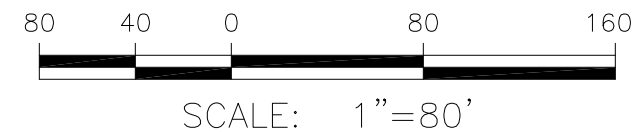


FIGURE 3

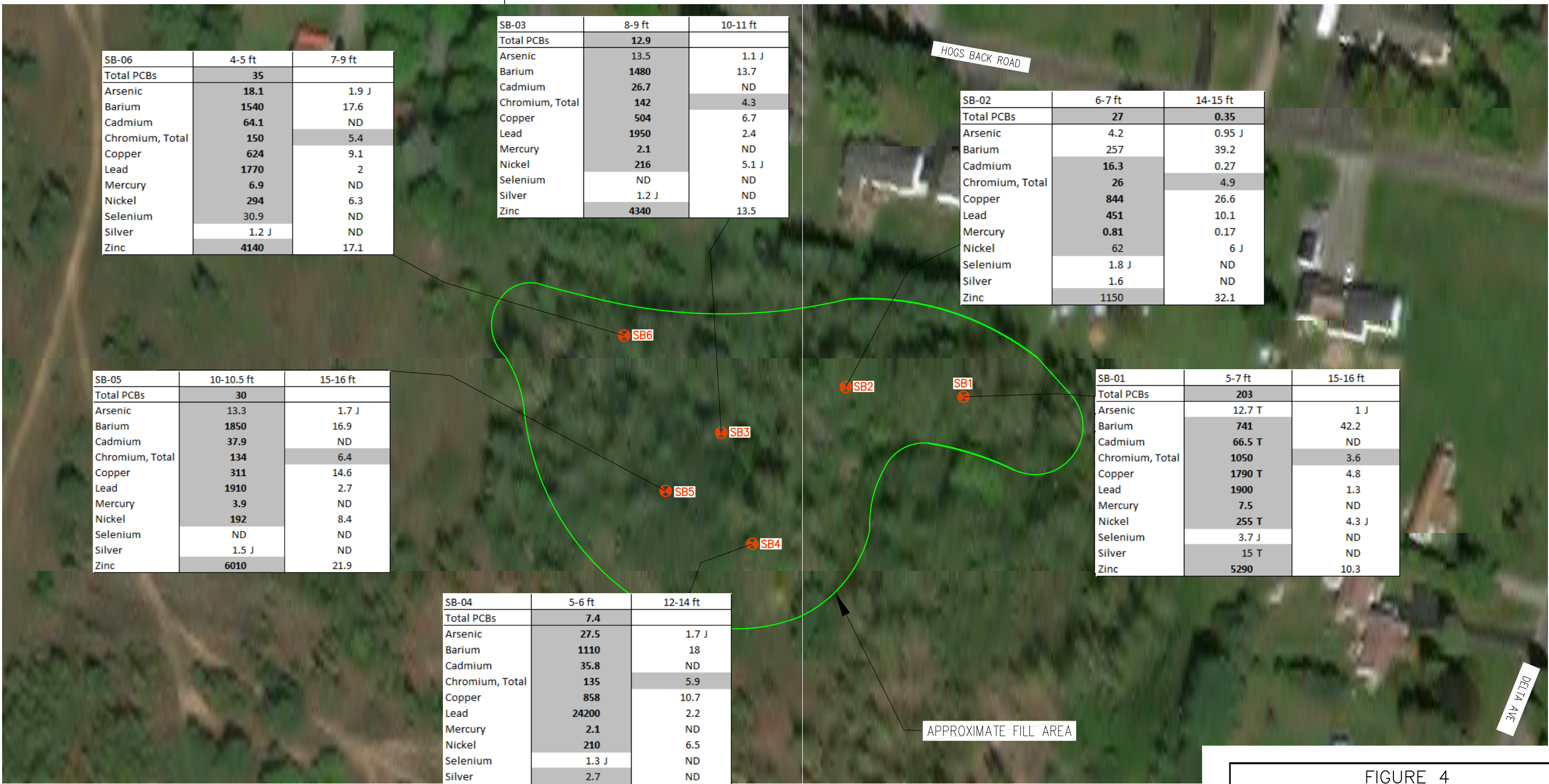


CNY CAR CRUSHERS

TEST PIT SAMPLE RESULTS

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 • 315-451-9560



LEGEND

SOIL BORING
(Sample Results in mg/kg)

CONCENTRATIONS COMPARED TO PART 375 RESTRICTED
AND UNRESTRICTED RESIDENTIAL USE CRITERIA

- INDICATES CONCENTRATION EXCEEDS UNRESTRICTED USE CRITERIA
- Bold** INDICATES CONCENTRATION EXCEEDS UNRESTRICTED USE AND RESIDENTIAL CRITERIA

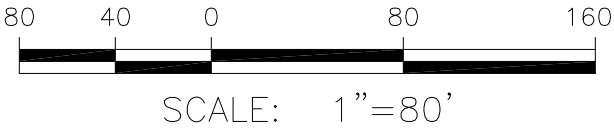


FIGURE 4



CNY CAR CRUSHERS

SOIL BORING SAMPLE RESULTS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 • 315-451-9560



LEGEND

- ① MONITORING WELL
(Manganese concentration is in mg/l)
(PFOA & PFOS concentration is ng/l)

CRITERIA ARE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATION FOR THE PROTECTION OF DRINKING WATER (WATER CLASS-GA), JUNE, 1998.

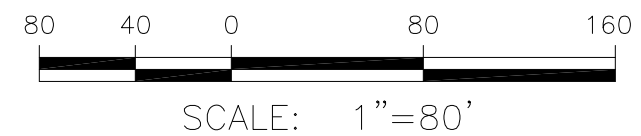


FIGURE 5



CNY CAR CRUSHERS

GROUNDWATER SAMPLE RESULTS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 • 315-451-9560



LEGEND

Ⓢ MONITORING WELL

(466.68') GROUNDWATER ELEVATION (NAVD88)

— GROUNDWATER CONTOUR

- - - GROUNDWATER CONTOUR (INTERPOLATED)



SCALE: 1"=80'

FIGURE 6



CNY CAR CRUSHERS

GROUNDWATER CONTOURS
JULY 2018

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 • 315-451-9560



LEGEND

⊗ SURFACE SOIL SAMPLE
(Sample Results in mg/kg)

CONCENTRATIONS COMPARED TO PART 375 RESTRICTED
AND UNRESTRICTED RESIDENTIAL USE CRITERIA

- INDICATES CONCENTRATION EXCEEDS UNRESTRICTED USE CRITERIA
- Indicates concentration exceeds unrestricted use and residential criteria**



FIGURE 7



CNY CAR CRUSHERS

SURFACE SOIL SAMPLE RESULTS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 • 315-451-9560

APPENDIX A

BORING LOGS AND WELL DEVELOPMENT LOGS

Contractor: Northstar Drilling Driller: Steve Laramée & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ WELL NO. SB-01 Page 1 of 1 Location Description:	
PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY						Date/Time Start: 4/11/18 0900 Date/Time Finish: 4/11/18 1000		Location Plan	
GROUNDWATER OBSERVATIONS									
Total Depth of Boring: 17 ft bls Additional Comments:									
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS
					1			Drawing Not to Scale	
					2				
HC					3	Automobile fluff			
					4				
SS	6-14-36-10	25%	0.0	SP	5	Moist, medium dense, dark brown, F SAND, with some F Gravel, and some waste			
					6				
SS	3-25-43-59	25%	0.0		7	Moist, dark brown-black WASTE fill with rubber and metal			
					8				
SS	12-10-8-8	5%	0.0		9	Moist, dark brown, WASTE fill with fabric, rubber, and metal			
					10	Moist, dark brown, WASTE fill, to 9.5ft			
SS	9-14-15-14	60%	2.1	SW	11	Moist, medium dense medium brown, C-M SAND, with subrounded C-F GRAVEL from 9.5 to 11ft			
					12				
SS	6-7-7-11-12	100%		GW	13	Dry, loose, med brown-red, MF GRAVEL, with some MF Sand.			
					14				
SS	12-12-11-1	0%			15				
				SW	16	Moist, loose, med brown, M SAND, with some med gray Gravel from 15-15.25ft Moist, loose med brown-gray, F SAND, with some Silt from 15.25-15.5ft			
SS	6-7-11-12	100%		SW	17	Moist, medium dense, med brown, M SAND, with little Silt			
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon						COMMENTS:			

Contractor: Northstar Drilling Driller: Steve Laramée & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ WELL NO. SB-02 Page 1 of 1 Location Description:	
PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY						Date/Time Start: 4/11/17 1045 Date/Time Finish: 4/11/17 1135		Location <input type="text"/> Plan	
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: <input type="text"/> ft bls Measured Water Level: <input type="text"/> ft bls Total Depth of Boring: 16 ft bls Additional Comments: <input type="text"/>									
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC Drawing Not to Scale	COMMENTS
					1				
					2				
					3				
HC					4	Automobile fluff			
					5				
SS	10-11-8-10	50%	0.0	SW	6	Moist, medium dense, med brown, FM SAND, with some M Gravel, trace organics			
					7				
SS	4-3-2-2	0%			8				
				SW	9	Moist, loose, med-dark brown, FM SAND, with some Waste			
SS	4-4-4-26	50%		SW	10	Moist, loose, med brown-gray, FM SAND			
					11				
SS	9-12-15-14	50%		SW	12	Moist, medium dense, med brown, FM SAND, with some MC Gravel, trace waste			
				SW	13	Moist, medium dense, med brown, M SAND, with some MC Gravel			
SS	10-10-7-4	25%		SW	14	Moist, loose, light brown-gray, FM SAND			
					15				
SS	6-7-6-7	30%			16	Moist, loose, light brown-grat, FM SAND			
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon						COMMENTS:			

Contractor: Northstar Drilling Driller: Steve Laramée & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ WELL NO. SB-03 Page 1 of 1 Location Description:	
PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY						Date/Time Start: 4/11/18 1235 Date/Time Finish: 4/11/18 1309		Location Plan	
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: ft bls Measured Water Level: ft bls Total Depth of Boring: 13ft ft bls Additional Comments: 									
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC Drawing Not to Scale	COMMENTS
					1				
					2				
					3				
					4				
HC					5	Automobile fluff			
					6				
SS	29-28-49-2	0%			7				
					8	Moist, dark-med brown WASTE fill, metal and plastic			
SS	14-15-37-4	100%	0.1	SW	9	Moist, dense, med brown, M SAND, with some FC Gravel			
					10	Moist, dark brown, WASTE			
SS	20-14-10-1	100%	0.7	SW	11	Moist, med dense, light brown- gray, FM SAND			
					12				
SS	3-4-5-7	100%		SM	13				
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon						COMMENTS:			

Contractor: Northstar Drilling Driller: Steve Laramée & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ WELL NO. SB-04 Page 1 of 1 Location Description:	
PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY						Date/Time Start: 4/11/17 1400 Date/Time Finish: 4/11/18 1450		Location Plan	
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: ft bls Measured Water Level: ft bls Total Depth of Boring: 16 ft bls Additional Comments: 									
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS
					1			Drawing Not to Scale	
					2				
					3				
HC					4	Automobile fluff			
					5	Moist, med-dark brown, WASTE, from 4-4.25ft, Moist, dark brown WASTE, from			
SS	8-14-11-11	100%	0.0	SW	6	Moist, med dense, med brown, M SAND, with some ML Gravel, from 5.5-6ft			
					7				
SS	3-5-4-3	5%			8	Moist, dark brown-black WASTE			
					9				
SS	4-2-3-6	25%			10	Moist, dark brown- black, WASTE, mostly foam			
				SW	11	Moist, dark brown- black, WASTE, from 10-10.6ft, Moist, med dense, med brown, M SAND, with some FC Gravel from 10.6-11ft			
SS	26-26-25-11	100%		SW	12	Moist, med dense, lt brown-gray, FM SAND from 11-12ft			
					13				
SS	7-3-3-4	50%		SW	14	moist, loose, lt brown-gray, M SAND, with trace M gravel			
					15				
SS	4-4-2-4	100%		SM	16	Moist, very loose, med brown-gray, F SAND, with SILT, and little clay			
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon						COMMENTS:			

Contractor: Northstar Drilling Driller: Steve Laramie & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ Page 1 of 1 WELL NO. SB-05	
						PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY		Location Description:	
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: ft bls Measured Water Level: ft bls Total Depth of Boring 14 ft bls Additional Comments:						Date/Time Start: 4/12/18 0820 Date/Time Finish: 4/12/18 0855		Location Plan	
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS
					1			Drawing Not to Scale	Chemical odor
					2				
					3				
HC					4	Automobile fluff			
					5				
SS	11-8-7-5	30%	0.0ppm		6	Moist, dark brown, WASTE			
					7				
SS	3-3-3-4	0%			8				
					9				
SS	11-14-15-3	75%	0.3ppm	SW	10	Moist, dark brown-black with some red, WASTE 8-9.5ft Moist, med dense, brown, M SAND, with some M Gravel from 9.5-10ft			
					11				
SS	21-26-19-14	100%		SW	12	Moist, medium dense, medium brown, M SAND, with some FM Gravel, 10-11.6ft, Moist, medium dense, lt brown, F SAND, trace C gravel, bottlon 11.6-12ft.			
					13	Moist, very loose, lt brown, F SAND from 12-12.5ft			
SS	4-3-3-4	50%		MH	14	Wet, soft, lt brown, SILT, with some F Sand from 13-13.5ft			
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon						COMMENTS:			

Contractor: Northstar Drilling Driller: Steve Laramée & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ WELL NO. SB-06 Page 1 of 1 Location Description:	
PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY						Date/Time Start: 4/12/18 0925 Date/Time Finish: 4/12/18 0950		Location Plan	
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: ft bls Measured Water Level: ft bls Total Depth of Boring: 9ft ft bls Additional Comments: 									
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC Drawing Not to Scale	COMMENTS
					1				Cobble stuck in shoe preventing recovery
					2				
HC					3	Automobile fluff			
					4				
SS	8-8-7-22	50%	2.8		5	Moist, medium brown-black, WASTE,			
				SW	6	Moist, dark brown-black WASTE from 5-5.5ft, Moist, med dense, med brown, SAND with some FC Gravel, from 5.5-6ft			
SS	9-19-16-14	100%		SW	7	Moist, very stiff, yellow-gray, SILT from 6-6.1ft, Moist, med dense, lt brown-gray, F SAND, from 6.1-7ft			
					8				
SS	6-4-6-4	100%		SW	9	Moist, loose, lt brown-gray, FM Sand			
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon						COMMENTS:			

Contractor: Northstar Drilling Driller: Steve Laramie & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ WELL NO. MW-1 Page 1 of 2 Location Description:																																																																																																																																																																																														
PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY						Date/Time Start: April 13, 2018/0910 Date/Time Finish: April 13, 2018/1200		Location Plan																																																																																																																																																																																														
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: 18.4ft ft bls Measured Water Level: 20.06ft ft bls Total Depth of Well: 28ft ft bls Additional Comments:																																																																																																																																																																																																						
<table border="1"> <thead> <tr> <th>Sample Type</th> <th>SPT</th> <th>Recovery (%)</th> <th>PID (PPM)</th> <th>USCS Symbol</th> <th>Depth (ft bls)</th> <th>FIELD IDENTIFICATION OF MATERIAL</th> <th>SCHEMATIC</th> <th>COMMENTS</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td></tr> <tr><td>HC</td><td></td><td></td><td>3.3</td><td></td><td>5</td><td>Moist, loose, dark brown-black, WASTE fill</td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>6</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>7</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>8</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>9</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>10</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>SM</td><td>11</td><td>Moist, loose, med-brown, M SAND , with some F-M Gravel, from 11-11.25', Wet, loose, lt brown - gray, F SAND, with low plasticity SILT, from 11.25-11.5'</td><td></td><td></td></tr> <tr><td>SS</td><td>2-2-3-6</td><td>50%</td><td>2.2</td><td>SW</td><td>12</td><td>Wet, loose, lt brown F SAND, from 11.5-12'</td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>13</td><td></td><td></td><td></td></tr> <tr><td>SS</td><td>4-8-6-5</td><td>75%</td><td></td><td>SW</td><td>14</td><td>Moist, loose, lt brown with some rust color, F SAND</td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>15</td><td></td><td></td><td></td></tr> <tr><td>SS</td><td>4-5-5-8</td><td>60%</td><td></td><td>SW</td><td>16</td><td>Moist, loose, lt brown, F SAND</td><td></td><td>Bentonite (15-17ft bls)</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>17</td><td></td><td></td><td></td></tr> <tr><td>SS</td><td>5-6-5-6</td><td>50%</td><td></td><td>SW</td><td>18</td><td>Moist, loose, lt brown - gray, F-M SAND, with trace F Gravel, bottom 6in wet</td><td></td><td>Sand (17-28ft bls)</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>19</td><td></td><td></td><td></td></tr> <tr><td>SS</td><td>3-2-3-2</td><td>50%</td><td>4.8</td><td>SW</td><td>20</td><td>Wet, very loose, med brown, F SAND</td><td></td><td></td></tr> </tbody> </table>						Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS						1									2									3									4				HC			3.3		5	Moist, loose, dark brown-black, WASTE fill								6									7									8									9									10								SM	11	Moist, loose, med-brown, M SAND , with some F-M Gravel, from 11-11.25', Wet, loose, lt brown - gray, F SAND, with low plasticity SILT, from 11.25-11.5'			SS	2-2-3-6	50%	2.2	SW	12	Wet, loose, lt brown F SAND, from 11.5-12'								13				SS	4-8-6-5	75%		SW	14	Moist, loose, lt brown with some rust color, F SAND								15				SS	4-5-5-8	60%		SW	16	Moist, loose, lt brown, F SAND		Bentonite (15-17ft bls)						17				SS	5-6-5-6	50%		SW	18	Moist, loose, lt brown - gray, F-M SAND, with trace F Gravel, bottom 6in wet		Sand (17-28ft bls)						19				SS	3-2-3-2	50%	4.8	SW	20	Wet, very loose, med brown, F SAND						
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS																																																																																																																																																																																														
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SS	5-6-5-6	50%		SW	18	Moist, loose, lt brown - gray, F-M SAND, with trace F Gravel, bottom 6in wet		Sand (17-28ft bls)																																																																																																																																																																																														
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SS	3-2-3-2	50%	4.8	SW	20	Wet, very loose, med brown, F SAND																																																																																																																																																																																																
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon						COMMENTS: Monitoring well constructed using 10-ft of 2" diameter PVC screen, and 18-ft of 2" diameter PVC riser. Grout composed of Portland cement and bentonite mix. Monitoring well secured with a stick up and concrete pad																																																																																																																																																																																																

Contractor: Northstar Drilling Driller: Steve Laramée & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ WELL NO. MW-1 Page 2 of 2 Location Description:																																																																																																																																																								
PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY						Date/Time Start: April 13, 2018/0910 Date/Time Finish: April 13, 2018/1200		Location Plan																																																																																																																																																								
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: 18.4ft ft bls Measured Water Level: 20.06ft ft bls Total Depth of Well: 28ft ft bls Additional Comments:																																																																																																																																																																
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Contractor: Northstar Drilling Driller: Steve Laramie & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;">PARSONS</div> DRILLING RECORD		BORING/ WELL NO. MW-2 Page 1 of 1 Location Description:	
PROJECT NAME: CNY Car Crushers PROJECT Location: Hastings, NY						Date/Time Start: April 16, 2018 Date/Time Finish: April 16, 2018		Location <input type="text"/> <input type="text"/> Plan	
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: <input type="text"/> 5ft <input type="text"/> ft bls Measured Water Level: <input type="text"/> 7.94ft <input type="text"/> ft bls Total Depth of Well: <input type="text"/> 14ft <input type="text"/> ft bls Additional Comments: <input type="text"/>									
Sample Type	SPT	Recovery (%)	PID (PPM)	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS
								Drawing Not to Scale	
					1				
					2				
					3				
					4				
HC					5	Moist, lt brown, F SAND			
					6				
SS	2-3-3-3	50%	0.2	SW	7	Wet, very loose, lt-med brown, F SAND			
				SW	8	Wet, very loose, lt brown, F SAND			
SS	3-2-3-4	100%	0.2	ML	9	Wet, soft, lt brown SILT, with some F Sand			
					10				
SS	1-1-1-2	0%			11				
				SM	12	Wet, very loose, lt brown, F SAND from 11.0-11.5, Wet, soft lt brown, fine SAND,			
SS	4-6-6-7	100%	0.0	ML	13	Wet, very soft, lt brown, low plasticity, SILT, with some F Sand			
					14	Wet, very loose, lt brown, F-M SAND			
SS	R-R-3-3	100%	0.0		15	Wet, very loose, lt brown, F SAND, with low plasticity SILT			
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon						COMMENTS: Monitoring well constructed using 10-ft of 2" diameter PVC screen, and 4-ft of 2" diameter PVC riser. Grout composed of Portland cement and bentonite mix. Monitoring well secured with a stick up and concrete pad			

Contractor: Northstar Drilling Driller: Steve Laramée & Joe Menzel Oversight: Casey Ftesko & Pete Scharfschwerdt Rig Type: CME						<div style="text-align: center;"> PARSONS DRILLING RECORD </div>		BORING/ Page 1 of 1 WELL NO. MW-3 Location Description:																																																																																																																																																				
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GROUNDWATER OBSERVATIONS Apparent Borehole DTW: 11.8ft ft bls Measured Water Level: 11.86ft ft bls Total Depth of Well: 20ft ft bls Additional Comments:																																																																																																																																																												
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WELL DEVELOPMENT LOG**Well ID: MW-1**

Date	<u>4/17/18</u>	Field Personnel	<u>CF, PS</u>	Weather	<u>37°, Light Snow</u>
Site Name	<u>CNY Car Crushers</u>	Contractor	<u>Northstar Drilling</u>	Project No.	<u>450716</u>
Site Location	<u>Hastings NY</u>	Evacuation Method	<u>Waterra Pump</u>		

Well information:

Depth to Bottom (Initial) *	<u>28.03</u>	ft.	Date(s) Installed	<u>4/13</u>	Date(s) Developed	<u>4/17/18</u>
Depth to Bottom (Final)*	<u>28.03</u>	ft.	Driller	<u>Northstar Drilling</u>	Development Time	<u>Start: 1050</u>
Depth to Water (Initial)*	<u>20.06</u>	ft.	Well Diameter	<u>2</u>		<u>Stop: 1250</u>
Depth to Water (Final)*	<u>20.64</u>	ft.	Casing Volume	<u>4.574</u>		<u>Total: 120 minutes</u>

* Measuring point

Pump setting*
(intake)

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Depth to Water (ft.)	Appearance of Water
1.5	2	---	---	---	---	0.40	20.8	Brown
6.15	8	7.24	7.35	0.557	193	0.40	20.63	Brown
14.6	19	7.70	7.18	0.569	443	0.40	20.67	Brown
17.69	23	8.38	7.02	0.568	237	0.40	20.64	Light Brown
21.5	28	8.13	7.03	0.0558	179	0.40	---	Mostly Clear
25.38	33	8.30	7.11	0.552	148	0.40	---	Mostly Clear
29.2	38	8.12	7.02	0.552	104	0.40	---	Clear
33.1	43	---	---	---	84	0.40	---	Clear
36.9	48	---	---	---	59	0.40	20.63	Clear

Development Water Characteristics:Total volume of Development water removed: 48 Gallons

Physical appearance at start

Color Brown
Odor Slight Chemical OdorSheen/Free Product Sheen

Physical appearance at end

Color Clear
Odor NoneSheen/Free Product None**NOTES:**Water was clear after 38 gallons with the exception of small amounts of fine sand.Geologist Signature: Casey Fetsko

Well ID: MW-2

Well ID: MW-3

APPENDIX B

GROUNDWATER SAMPLING LOGS

Low Flow Ground Water Sampling Log					
Date	14-May	Personnel	PRS, MGC	Weather	75°F, sunny
Site Name	Car Crushers CNY	Evacuation Method	Peri Pump	Well #	MW-01
Site Location	Hastings, NY	Sampling Method	Peri Pump	Project #	450716.02000

Depth of Well	28.04	ft.		*Measurements taken from: <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 5px; position: relative;"> <div style="position: absolute; top: 0; right: 0; bottom: 0; left: 0;"> <div style="position: absolute; top: 0; right: 0; bottom: 0; left: 0; border: 1px solid black; width: 100%; height: 100%;"></div> <div style="position: absolute; top: 0; right: 0; bottom: 0; left: 0; border: 1px solid black; width: 100%; height: 100%;"></div> </div> </div> <div style="margin-top: 5px;"> <div style="border-bottom: 1px solid black; width: 100%;"></div> <div style="border-bottom: 1px solid black; width: 100%;"></div> <div style="border-bottom: 1px solid black; width: 100%;"></div> </div> </div>
Depth to Water	21.09	ft.		
H _{wc}	6.95	ft.		
Depth to Intake	26.04	ft.		

[illegible]

Time Collected: <u>5/14/2018 8:45</u>	Total volume of purged water removed: <u>6</u> (gallons)
Physical appearance at start:	Physical appearance at start:
Color <u>clear</u>	Color <u>clear</u>
Odor <u>none</u>	Odor <u>none</u>
Sheen/Free Product <u>none</u>	Sheen/Free Product <u>none</u>

Dissolved ferrous iron: n/a

Dissolved total iron: n/a

Dissolved total manganese: n/a

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[illegible]

Low Flow Ground Water Sampling Log								
Date	14-May		Personnel	PRS, MGC		Weather	75°F, sunny	
Site Name	Car Crushers CNY		Evacuation Method	Peri Pump		Well #	MW-03	
Site Location	Hastings, NY		Sampling Method	Peri Pump		Project #	450716.02000	
Well information:								
Depth of Well	21.61 ft.		*Measurements taken from:					
Depth to Water	12.47 ft.		<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 50px; height: 50px; position: relative; margin-right: 10px;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> <div> Top of Well Casing Top of Protective Casing (Other, Specify) </div> </div>					
H _{wc}	9.14 ft.							
Depth to Intake	19.61 ft.							
Start Purge Time: 1355								
		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	Depth to Water (ft)	Temperature (celsius)	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (mL/min)
0	12.52	24.87	6.69	0.031	174	6.63	55	200
5	12.5	17.49	5.7	0.033	228	4.52	27.4	200
10	12.5	15.72	5.52	0.033	243	4.52	30.7	200
15	12.5	14.58	5.45	0.033	249	4.56	23.8	200
20	12.5	14.08	5.15	0.038	259	4.06	14.9	200
25	12.5	13.91	5.48	0.04	255	4	13.6	200
30	12.51	14.06	5.45	0.039	258	4.07	12.3	200
35	12.51	14.01	5.43	0.038	261	4.02	12.2	200
40	12.51	13.75	5.43	0.038	263	3.97	9.7	200
45	12.51	13.69	5.41	0.038	266	3.92	8	200
50	12.51	13.39	5.41	0.037	268	3.86	6.8	200
55	12.51	13.38	5.41	0.038	269	3.82	6.1	200
60	12.51	13.53	5.41	0.038	269	3.8	5.8	200
65	12.51	13.47	5.4	0.038	271	3.73	4.4	200
70	12.51	13.48	5.4	0.039	271	3.6	3.6	200
75	12.51	13.7	5.4	0.038	272	3.53	3.2	200
80	12.51	13.57	5.4	0.04	274	3.9	2.2	200
85	12.51	12.24	5.42	0.04	277	4.01	1.1	200
90	12.51	11.98	5.4	0.039	278	4.41	1.1	200
95	12.51	11.7	5.41	0.038	280	3.93	0.8	200
End Purge Time: 1550								
Water Sample								
Time Collected: 5/14/2018 14:30			Total volume of purged water removed: 6 (gallons)					
Physical appearance at start:			Physical appearance at start:					
Color clear			Color clear					
Odor none			Odor none					
Sheen/Free Product none			Sheen/Free Product none					
Field Test Results:								
Dissolved ferrous iron: n/a								
Dissolved total iron: n/a								
Dissolved total manganese: n/a								
Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH			
TAL Metals, Hg	250 mL Plastic	1	no	HNO3	-			
TCL PCBs	250 cc Amber	2	no	none	-			
VOCs	40 mL VOA vials	3	no	HCl	-			
TCL SVOA	250 mL Amber	2	no	none	-			
PFAAs	250 mL Plastic	2	no	none	-			
1,4-Dioxane	1 L Amber	2	no	none	-			

APPENDIX C

TOPOGRAPHICAL SURVEY INFORMATION



555 Penbrooke Drive • Penfield, NY 14526
main: 585.388.2060 • fax: 585.388.2070

CNY CAR CRUSH SITE
TOWN OF HASTINGS, OSWEGO COUNTY, NEW YORK

HORZ. DATUM: NAD 83(2011) - NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE
VERT. DATUM: NAVD 88
UNITS: U.S. SURVEY FEET

POINT ID	NORTHING	EASTING	GROUND ELEV.	CASING ELEV.	RISER ELEV.
MW1	1222689.4	936253.5	484.35	487.44	487.34
MW2	1222541.8	936290.1	473.24	476.38	476.30
MW3	1222605.8	936069.5	478.58	481.76	481.56
B1	1222665.8	936391.3	484.59	N/A	N/A
B2	1222673.6	936296.6	484.99	N/A	N/A
B3	1222636.8	936196.5	485.24	N/A	N/A
B4	1222547.5	936221.5	485.90	N/A	N/A
B5	1222590.1	936151.9	487.58	N/A	N/A
B6	1222715.0	936118.6	484.48	N/A	N/A
S1	1222781.8	936048.6	487.60	N/A	N/A
S2	1222738.5	936166.9	484.53	N/A	N/A
S3	1222716.1	936242.4	484.11	N/A	N/A
S4	1222712.6	936372.3	484.39	N/A	N/A
S5	1222657.8	936447.3	483.39	N/A	N/A
S6	1222618.1	936222.9	485.09	N/A	N/A
S7	1222570.9	936156.6	488.04	N/A	N/A
S8	1222640.4	936002.8	483.90	N/A	N/A
S9	1222496.0	936128.0	475.93	N/A	N/A
S10	1222470.3	936245.5	474.68	N/A	N/A
TP1	1222557.7	936102.9	477.47	N/A	N/A

8/23/2018