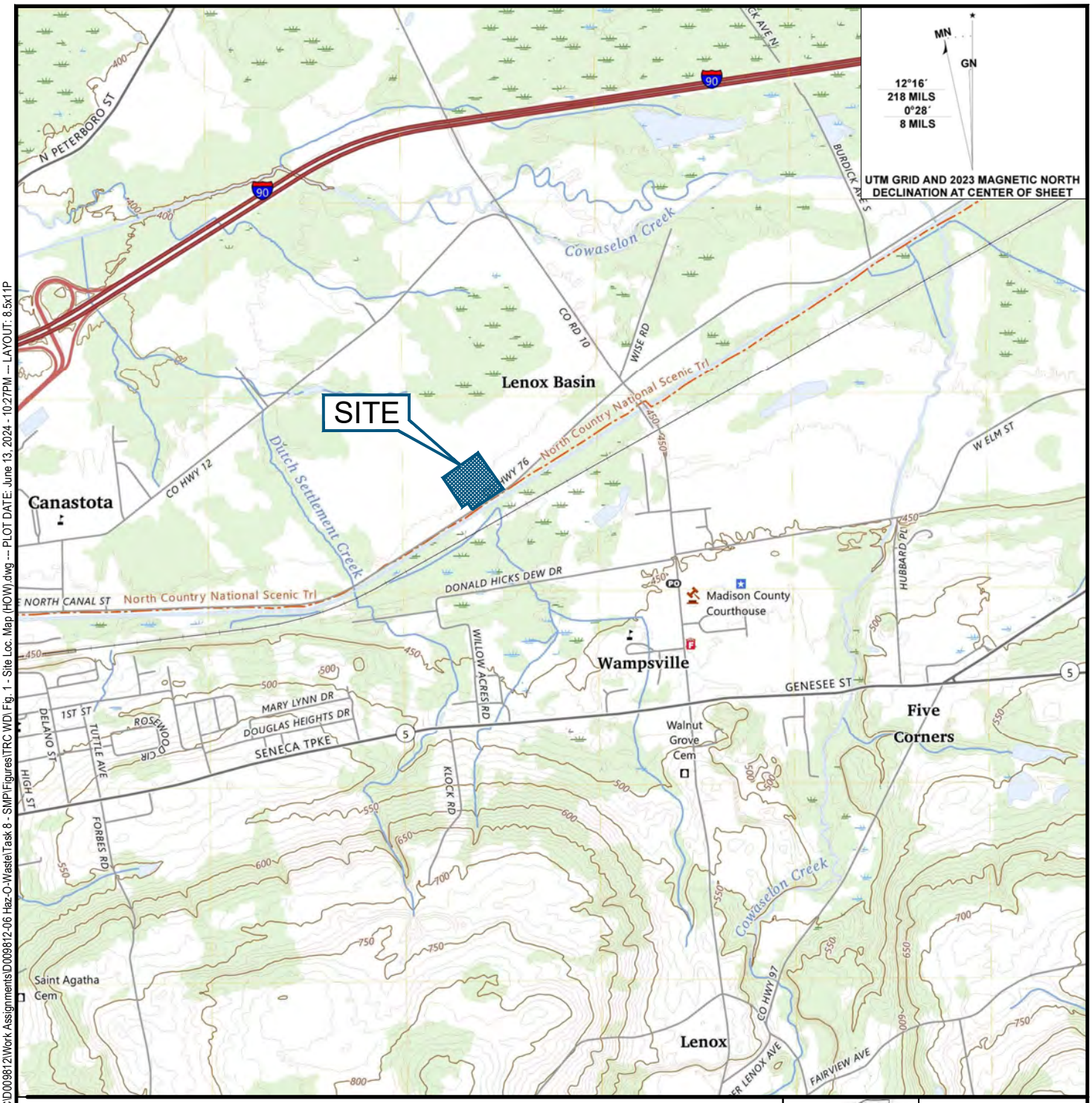
FIGURES



SCALE: 1:2400

1 0.5 0 KILOMETERS 1 2

1000 500 0 METERS 1000 2000

1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

MAP INCLUDES INFORMATION FROM THE FOLLOWING MAP SHEET(S): TP, ONEIDA, NY, 7.5 MINUTE DATED 2023.

MAP OBTAINED THROUGH USE OF TOPOVIEW WITH THE INTERFACE CREATED BY THE NATIONAL GEOLOGIC MAP DATABASE PROJECT (NGMDB), IN SUPPORT OF THE TOPOGRAPHIC MAPPING PROGRAM, MANAGED BY THE USGS NATIONAL GEOSPATIAL PROGRAM (NGP).

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PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
HAZ-O-WASTE SITE (NORTHEAST ENVIRONMENTAL SERVICES)
NYSDEC SITE NO. 727003 - 4123 CANAL ROAD
TOWN OF LENOX, MADISON COUNTY, NEW YORK

TITLE:
SITE LOCATION MAP

DRAWN BY:	H. DELGADO
CHECKED BY:	M. O'DONNELL
APPROVED BY:	K. BOGER
DATE:	JUNE 2024
PROJ. NO.:	392507.0000.0000
FILE:	Fig. 1 - Site Loc. Map (HOW).dwg

FIGURE 1

8.5x11 -- ATTACHED XREFS: -- ATTACHED IMAGES: NY_Oneida_20230526_TM:
DRAWING NAME: \\CLIFTONPARK-VFP\cliftonpark\ECR\Projects\NYSDEC\D009812\Work Assignments\D009812-06 Haz-O-Waste\Task 8 - SMP\Figures\TRC WDI Fig. 1 - Site Loc. Map (HOW).dwg -- PLOT DATE: June 13, 2024 - 10:27PM -- LAYOUT: 8.5x11P

LEGEND (SYMBOLS NOT TO SCALE):

- INSTITUTIONAL CONTROL BOUNDARY / PROPERTY LINE
- LOT BOUNDARY
- HOW-MW-### — GROUNDWATER MONITORING WELL
- AREA OF EXCAVATION AND ZERO VALENT IRON AMENDMENT

NOTES:

1. BASE MAP IMAGERY FROM NEARMAP DATED APRIL 14, 2023. ACTUAL CONDITIONS MAY VARY.
2. HORIZONTAL DATUM FOR THE TOPOGRAPHIC SURVEY IS THE NYS PLANE, CENTRAL ZONE, NAD83 PROJECTION. VERTICAL DATUM FOR THE TOPOGRAPHIC SURVEY IS THE NAVD88 ELEVATION SYSTEM.

N
TRUE NORTH

0 80' 160'

SCALE: 1" = 80'
SHEET SIZE: 11" BY 17"

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
HAZ-O-WASTE SITE (NORTHEAST ENVIRONMENTAL SERVICES)
NYSDEC SITE NO. 727003 - 4123 CANAL ROAD
TOWN OF LENOX, MADISON COUNTY, NEW YORK

TITLE:
SITE LAYOUT MAP

DRAWN BY:	H. DELGADO	PROJ NO.:	392507.0000.0000
CHECKED BY:	M. O'DONNELL		
APPROVED BY:	K. BOGER		**FIGURE 2**
DATE:	AUGUST 2024		

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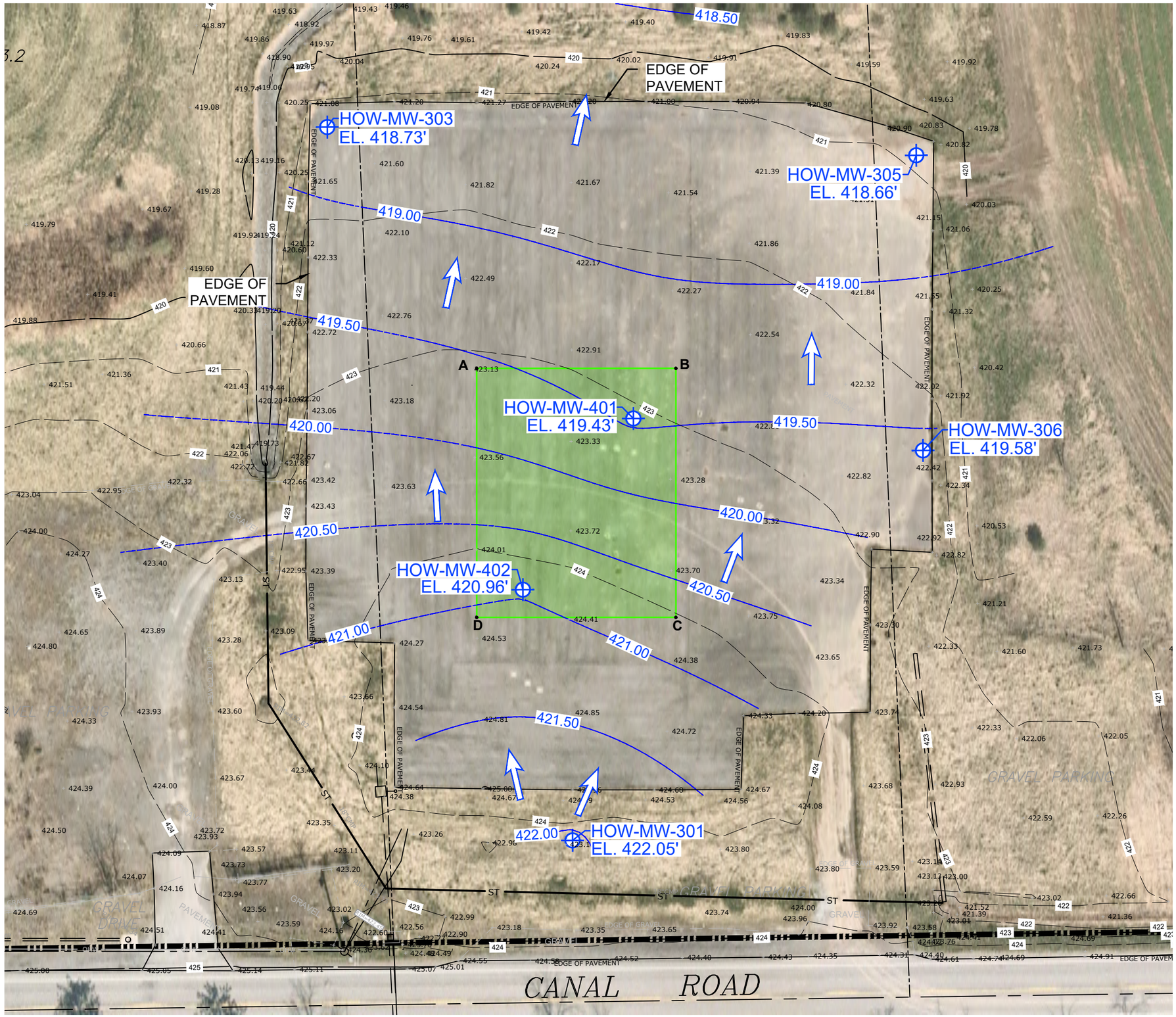
FILE NO.: Fig. 2 - Site Layout Map (HOW).dwg



LEGEND (SYMBOLS NOT TO SCALE):

- LOT BOUNDARY
- HOW-MW-### — GROUNDWATER MONITORING WELL
- AREA OF EXCAVATION AND ZERO VALENT IRON AMENDMENT
- EL. 419.43' — GROUNDWATER SURFACE ELEVATION IN FEET
- 419.00 — INFERRED GROUNDWATER SURFACE ELEVATION CONTOUR IN FEET
- INFERRED GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP IMAGERY FROM NEARMAP DATED APRIL 14, 2023. ACTUAL CONDITIONS MAY VARY.
2. HORIZONTAL DATUM FOR THE TOPOGRAPHIC SURVEY IS THE NYS PLANE, CENTRAL ZONE, NAD83 PROJECTION. VERTICAL DATUM FOR THE TOPOGRAPHIC SURVEY IS THE NAVD88 ELEVATION SYSTEM.
3. GROUNDWATER SURFACE ELEVATION CONTOURS WERE GENERATED USING MEASUREMENTS COLLECTED FROM HOW-MW-301, HOW-MW-303, HOW-MW-305, HOW-MW-306, HOW-MW-401, AND HOW-MW-402 DATED APRIL 3, 2024.

N
TRUE NORTH

0 40' 80'

SCALE: 1" = 40'
SHEET SIZE: 11" BY 17"

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
HAZ-O-WASTE SITE (NORTHEAST ENVIRONMENTAL SERVICES)
NYSDEC SITE NO. 727003 - 4123 CANAL ROAD
TOWN OF LENOX, MADISON COUNTY, NEW YORK

TITLE:
GROUNDWATER SURFACE ELEVATION CONTOUR MAP - APRIL 2024

DRAWN BY:	H. DELGADO	PROJ NO.:	392507.0000.0000
CHECKED BY:	M. O'DONNELL		
APPROVED BY:	K. BOGER		**FIGURE 3**
DATE:	JUNE 2024		

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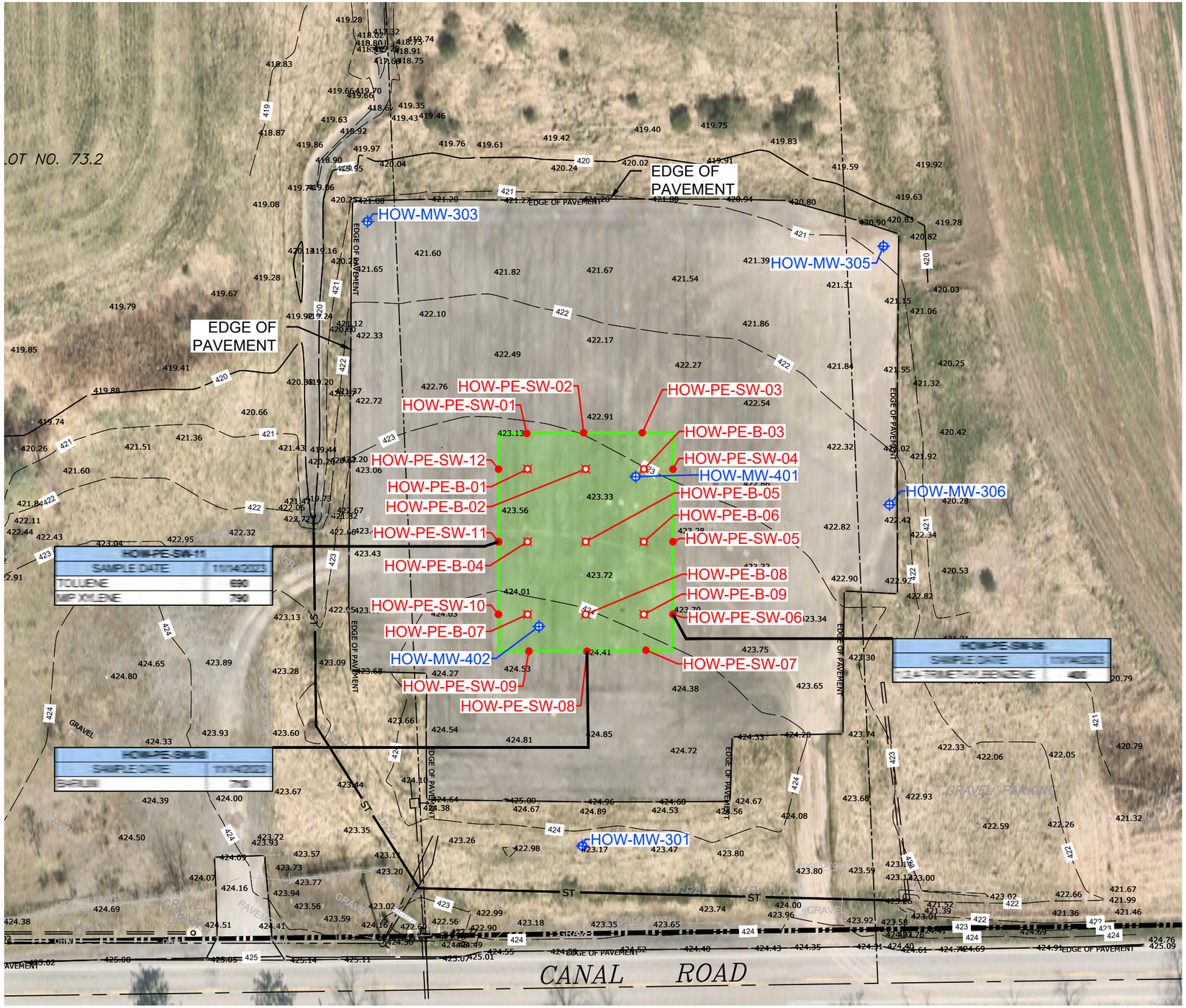
FILE NO.: Fig. 3 - GWSEC Map - April 2024 (HOW).dwg



LEGEND (SYMBOLS NOT TO SCALE):

——— – ———	LOT BOUNDARY
HOW-MW-###	GROUNDWATER MONITORING WELL
	AREA OF EXCAVATION AND ZERO VALENT IRON AMENDMENT
HOW-PE-SW-##	POST-EXCAVATION SIDEWALL SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER
HOW-PE-B-##	POST-EXCAVATION BOTTOM SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER

NOTES:

1. BASE MAP IMAGERY FROM NEARMAP DATED APRIL 14, 2023. ACTUAL CONDITIONS MAY VARY.
2. HORIZONTAL DATUM FOR THE TOPOGRAPHIC SURVEY IS THE NYS PLANE, CENTRAL ZONE, NAD83 PROJECTION. VERTICAL DATUM FOR THE TOPOGRAPHIC SURVEY AND SPECIFIED EXCAVATION ELEVATIONS ARE THE NAVD88 ELEVATION SYSTEM.
3. ONLY VOLATILE ORGANIC COMPOUNDS EXCEEDING SOIL CLEANUP OBJECTIVES IN **BOLD** VALUE ARE SHOWN IN DATA BOXES.
4. SAMPLE RESULTS PRESENTED IN MILLIGRAMS PER KILOGRAMS (mg/kg).

VOLATILE ORGANIC COMPOUND (VOC) (mg/kg)	COMMERCIAL USE*	INDUSTRIAL USE*
TOLUENE	500	1,000
1,2,4-TRIMETHYLBENZENE	190	380
MP XYLENE	500**	1,000**
METALS, TOTAL (mg/kg)	**COMMERCIAL USE***	**INDUSTRIAL USE***
BARIUM	400	10,000

NOTES:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
VOCs - Volatile Organic Compounds.
* - New York State Department of Environmental Conservation, Soil Cleanup Objectives (SCOs).
** - Criteria applicable to xylene (total), the sum of the xylene isomers.

N
TRUE NORTH

0 50' 100'

SCALE: 1" = 50'
SHEET SIZE: 11" BY 17"

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
HAZ-O-WASTE SITE (NORTHEAST ENVIRONMENTAL SERVICES)
NYSDEC SITE NO. 727003 - 4123 CANAL ROAD
TOWN OF LENOX, MADISON COUNTY, NEW YORK

TITLE:
POST-EXCAVATION SOIL SAMPLING RESULTS

DRAWN BY:	H. DELGADO	PROJ NO.:	392507.0000.0000
CHECKED BY:	M. O'DONNELL		
APPROVED BY:	K. BOGER		**FIGURE 4**
DATE:	JUNE 2024		

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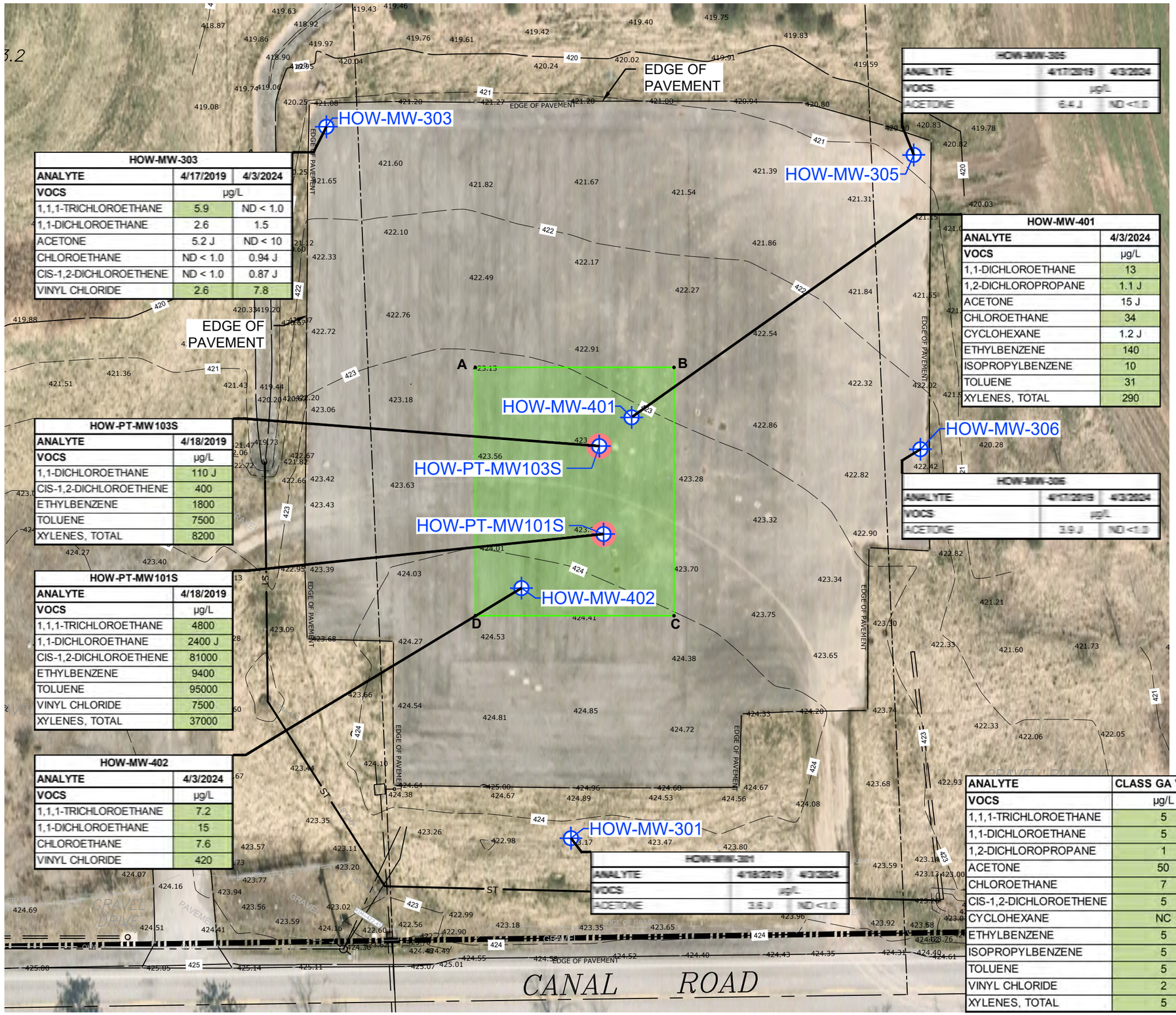
FILE NO.: Fig. 4 - PE Soil Samp. Results (HOW).dwg



HOW-MW-303		
ANALYTE	4/17/2019	4/3/2024
VOCS	µg/L	
1,1,1-TRICHLOROETHANE	5.9	ND < 1.0
1,1-DICHLOROETHANE	2.6	1.5
ACETONE	5.2 J	ND < 10
CHLOROETHANE	ND < 1.0	0.94 J
CIS-1,2-DICHLOROETHENE	ND < 1.0	0.87 J
VINYL CHLORIDE	2.6	7.8

HOW-MW-305		
ANALYTE	4/17/2019	4/3/2024
VOCS	µg/L	
ACETONE	6.4 J	ND <1.0

HOW-MW-401	
ANALYTE	4/3/2024
VOCS	µg/L
1,1-DICHLOROETHANE	13
1,2-DICHLOROPROPANE	1.1 J
ACETONE	15 J
CHLOROETHANE	34
CYCLOHEXANE	1.2 J
ETHYLBENZENE	140
ISOPROPYLBENZENE	10
TOLUENE	31
XYLENES, TOTAL	290

HOW-PT-MW103S	
ANALYTE	4/18/2019
VOCS	µg/L
1,1-DICHLOROETHANE	110 J
CIS-1,2-DICHLOROETHENE	400
ETHYLBENZENE	1800
TOLUENE	7500
XYLENES, TOTAL	8200

HOW-MW-306		
ANALYTE	4/17/2019	4/3/2024
VOCS	µg/L	
ACETONE	3.9 J	ND <1.0

HOW-PT-MW101S	
ANALYTE	4/18/2019
VOCS	µg/L
1,1,1-TRICHLOROETHANE	4800
1,1-DICHLOROETHANE	2400 J
CIS-1,2-DICHLOROETHENE	81000
ETHYLBENZENE	9400
TOLUENE	95000
VINYL CHLORIDE	7500
XYLENES, TOTAL	37000

HOW-MW-402	
ANALYTE	4/3/2024
VOCS	µg/L
1,1,1-TRICHLOROETHANE	7.2
1,1-DICHLOROETHANE	15
CHLOROETHANE	7.6
VINYL CHLORIDE	420

HOW-MW-301		
ANALYTE	4/18/2019	4/3/2024
VOCS	µg/L	
ACETONE	3.6 J	ND <1.0

LEGEND (SYMBOLS NOT TO SCALE):

- LOT BOUNDARY
- HOW-MW-3## — GROUNDWATER MONITORING WELL
- HOW-MW-10#S — ABANDONED GROUNDWATER MONITORING WELL
- AREA OF EXCAVATION AND ZERO VALENT IRON AMENDMENT

NOTES:

1. BASE MAP IMAGERY FROM NEARMAP DATED APRIL 14, 2023. ACTUAL CONDITIONS MAY VARY.
2. HORIZONTAL DATUM FOR THE TOPOGRAPHIC SURVEY IS THE NYS PLANE, CENTRAL ZONE, NAD83 PROJECTION. VERTICAL DATUM FOR THE TOPOGRAPHIC SURVEY IS THE NAVD88 ELEVATION SYSTEM.
3. µg/L - MICROGRAMS PER LITER.
4. J - ESTIMATED VALUE.
5. ND - NOT DETECTED ABOVE LABORATORY DETECTION LIMITS.
6. SHADING INDICATES RESULT ABOVE CLASS GA VALUE.
7. CLASS GA VALUE - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER.
8. ONLY DETECTED COMPOUNDS ARE SHOWN.

N
TRUE NORTH

0 40' 80'

SCALE: 1" = 40'
SHEET SIZE: 11" BY 17"

ANALYTE	CLASS GA VALUE
VOCS	µg/L
1,1,1-TRICHLOROETHANE	5
1,1-DICHLOROETHANE	5
1,2-DICHLOROPROPANE	1
ACETONE	50
CHLOROETHANE	7
CIS-1,2-DICHLOROETHENE	5
CYCLOHEXANE	NC
ETHYLBENZENE	5
ISOPROPYLBENZENE	5
TOLUENE	5
VINYL CHLORIDE	2
XYLENES, TOTAL	5

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
HAZ-O-WASTE SITE (NORTHEAST ENVIRONMENTAL SERVICES)
NYSDEC SITE NO. 727003 - 4123 CANAL ROAD
TOWN OF LENOX, MADISON COUNTY, NEW YORK

TITLE:
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER - APRIL 2019 / APRIL 2024

DRAWN BY:	H. DELGADO	PROJ NO.:	392507.0000.0000
CHECKED BY:	M. O'DONNELL		
APPROVED BY:	K. BOGER		**FIGURE 5**
DATE:	JUNE 2024		

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FILE NO.: Fig. 5 - VOCs in GW - April 2019_2024 (HOW).dwg

TABLES

Table 1
New York State Department of Environmental Conservation
Haz-O-Waste Final Engineering Report
4123 Canal Rd., Canastota NY, 13032
Summary of Results of Analysis of Post-Excavation Samples

					Sample Location:	HOW-PE-B-01		HOW-PE-B-02	HOW-PE-B-03	HOW-PE-B-04	HOW-PE-B-05	HOW-PE-B-06	HOW-PE-B-07	HOW-PE-B-08	HOW-PE-B-09	HOW-PE-SW-01	HOW-PE-SW-02
					Sample Name:	HOW-PE-B-01	FD-02@ B-01	HOW-PE-B-02	HOW-PE-B-03	HOW-PE-B-04	HOW-PE-B-05	HOW-PE-B-06	HOW-PE-B-07	HOW-PE-B-08	HOW-PE-B-09	HOW-PE-SW-01	HOW-PE-SW-02
					Lab Sample ID^:	23K1927-13/L1678851-13	23K1927-23/L1678851-23	23K1927-14/L1678851-14	23K1927-15/L1678851-15	23K1927-16/L1678851-16	23K1927-17/L1678851-17	23K1927-18/L1678851-18	23K1927-19/L1678851-19	23K1927-20/L1678851-20	23K1927-21/L1678851-21	23K1927-01/L1678851-01	23K1927-02/L1678851-02
					Sample Depth:	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	419 ft	419 ft
					Sample Date:	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023
Analysis	Analyte	Unit	Commercial Use*	Industrial Use*			Field Dup										
VOCs																	
	Benzene	mg/kg	44	89	0.0021 U	0.0038 U		0.0019 U	0.0022 U	0.002 U	1.2 U	0.72 U	0.0021 U	0.0021 U	**0.0013 J**	0.0019 U	0.068 U
	n-Butylbenzene	mg/kg	500	1,000	0.0021 U	**0.0077**		**0.00067 J**	0.0022 U	0.002 U	**0.66 J**	**0.16 J**	0.0021 U	0.0021 U	0.0021 U	0.0019 U	**0.46**
	sec-Butylbenzene	mg/kg	500	1,000	0.0021 U	**0.0024 J**		0.0019 U	0.0022 U	0.002 U	**0.39 J**	0.72 U	0.0021 U	0.0021 U	0.0021 U	0.0019 U	**0.11**
	tert-Butylbenzene	mg/kg	500	1,000	0.0021 U	0.0038 U		0.0019 U	0.0022 U	0.002 U	1.2 U	0.72 U	0.0021 U	0.0021 U	0.0021 U	0.0019 U	0.068 U
	Ethyl Benzene	mg/kg	390	780	0.0021 U	**0.070**		**0.021**	**0.044**	**0.0028**	**18**	**0.54 J**	**0.0069**	**0.085**	**0.076**	0.0019 U	**1.0**
	Isopropylbenzene (Cumene)	mg/kg	NC	NC	0.0021 U	**0.0088**		**0.0017 J**	**0.0024**	0.002 U	**2.5**	**0.14 J**	0.0021 U	0.0021 U	**0.0043**	0.0019 U	**0.28**
	p-Isopropyltoluene (p-Cymene)	mg/kg	NC	NC	0.0021 U	**0.0021 J**		0.0019 U	0.0022 U	0.002 U	**0.28 J**	**0.11 J**	0.0021 U	0.0021 U	0.0021 U	0.0019 U	**0.18**
	Methyl tert-Butyl Ether (MTBE)	mg/kg	500	1,000	0.0043 U	0.0077 U		0.0038 U	0.0043 U	0.004 U	1.2 U	0.72 U	0.0041 U	0.0041 U	0.0042 U	0.0038 U	0.068 U
	Naphthalene	mg/kg	500	1,000	0.0043 U	**0.0057 J**		**0.0016 J**	**0.00088 J**	0.004 U	**1.4 J**	**0.38 J**	0.0041 U	0.0041 U	0.0042 U	0.0038 U	**13**
	n-Propylbenzene	mg/kg	500	1,000	0.0021 U	**0.029**		**0.0056**	**0.0042**	**0.00087 J**	**9.3**	**0.28 J**	0.0021 U	0.0021 U	**0.0047**	0.0019 U	**0.43**
	Toluene	mg/kg	500	1,000	**0.0017 J**	**0.27**		**0.088**	**0.079**	**0.0020 J**	**37**	**2.7**	**0.0013 J**	**0.0062**	**0.065**	**0.012**	**0.52**
	1,2,4-Trimethylbenzene	mg/kg	190	380	0.0021 U	**0.090**		**0.037**	**0.024**	**0.00077 J**	**56**	**6.8**	0.0021 U	0.0021 U	**0.0093**	0.0019 U	**3.1**
	1,3,5-Trimethylbenzene	mg/kg	190	380	0.0021 U	**0.036**		**0.014**	**0.0083**	**0.00085 J**	**21**	**2.4**	0.0021 U	0.0021 U	**0.0025**	0.0019 U	**0.94**
	m/p Xylene	mg/kg	500**	1,000**	**0.0016 J**	**0.39**		**0.10**	**0.16**	**0.015**	**64**	**5.3**	**0.0056**	**0.050**	**0.037**	**0.0035 J**	**5.0**
	o-Xylene	mg/kg	500**	1,000**	0.0021 U	**0.058**		**0.033**	**0.048**	**0.0018 J**	**24**	**3.0**	**0.0028**	**0.0097**	**0.0062**	0.0019 U	**0.44**
	1,4-Dioxane	mg/kg	130	250	**0.055 J**	0.064 U		0.061 U	0.063 U	0.061 U	**0.026 J**	0.065 U	0.06 U	0.065 U	0.063 U	0.064 U	0.058 U
SVOCs																	
	Acenaphthene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Acenaphthylene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Anthracene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Benzo(a)anthracene	mg/kg	5.6	11	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Benzo(a)pyrene	mg/kg	1	1.1	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Benzo(b)fluoranthene	mg/kg	5.6	11	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Benzo(g,h,i)perylene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Benzo(k)fluoranthene	mg/kg	56	110	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Chrysene	mg/kg	56	110	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Dibenz(a,h)anthracene	mg/kg	0.56	1.1	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Fluoranthene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Fluorene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Indeno(1,2,3-cd)pyrene	mg/kg	5.6	11	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Naphthalene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	**0.13 J**	0.2 U	0.22 U	0.21 U	0.22 U	**0.55**
	Phenanthrene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
	Pyrene	mg/kg	500	1,000	0.22 U	0.21 U		0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.2 U	0.22 U	0.21 U	0.22 U	0.2 U
PCBs																	
	Aroclor-1016	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	0.096 U	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Aroclor-1221	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	0.096 U	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Aroclor-1232	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	0.096 U	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Aroclor-1242	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	0.096 U	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Aroclor-1248	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	0.096 U	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Aroclor-1254	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	**0.051 J**	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Aroclor-1260	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	0.096 U	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Aroclor-1262	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	0.096 U	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Aroclor-1268	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	0.096 U	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
	Total PCBs	mg/kg	NC	NC	0.1 U	0.1 U		0.097 U	0.1 U	0.098 U	**0.051 J**	0.1 U	0.096 U	0.1 U	0.099 U	0.1 U	0.093 U
Pesticides																	
	Alachlor	mg/kg	NC	NC	0.026 U	0.026 U		0.024 U	0.025 U	0.024 U	0.024 U	0.026 U	0.024 U	0.026 U	0.025 U	0.026 U	0.023 U
	Aldrin	mg/kg	0.68	1.4	0.0066 U	0.0064 U		0.0061 U	0.0063 U	0.0061 U	0.006 U	0.0065 U	0.006 U	0.0065 U	0.0062 U	0.0064 U	0.0058 U
	alpha-BHC	mg/kg	3.4	6.8	0.0066 U	0.0064 U		0.0061 U	0.0063 U	0.0061 U	0.006 U	0.0065 U	0.006 U	0.0065 U	0.0062 U	0.0064 U	0.0058 U
	beta-BHC	mg/kg	3	14	0.0066 U	0.0064 U		0.0061 U	0.0063 U	0.0061 U	0.006 U	0.0065 U	0.006 U	0.0065 U	0.0062 U	0.0064 U	0.0058 U
	delta-BHC	mg/kg	500	1,000	0.0066 U	0.0064 U		0.0061 U	0.0063 U	0.0061 U	0.006 U	0.0065 U	0.006 U	0.0065 U	0.0062 U	0.0064 U	0.0058 U
	gamma-BHC (Lindane)	mg/kg	9.2	23	0.0026 U	0.0026 U		0.0024 U	0.0025 U	0.0024 U	0.0024 U	0.0026 U	0.0024 U	0.0026 U	0.0025 U	0.0026 U	0.0023 U
	Chlordane	mg/kg	NC	NC	0.026 U	0.026 U		0.024 U	0.025 U	0.024 U	0.024 U	0.026 U	0.024 U	0.026 U	0.025 U	0.026 U	0.023 U
	4,4-DDD	mg/kg	92	180	0.0052 U	0.0051 U		0.0049 U	0.0051 U	0.0049 U	0.0048 U	**0.0036 J**	0.0048 U	**0.0029 J**	0.005 U	0.0052 U	0.0047 U
	4,4-DDE	mg/kg	62	120	0.0052 U	**0.0010 J**		0.0049 U	0.0051 U	0.0049 U	0.0048 U	**0.00059 J**	0.0048 U	**0.0073**	0.005 U	0.0052 U	0.0047 U
	4,4-DDT	mg/kg	47	94	0.0052 U	**0.00089 J**		0.0049 U	0.0051 U	0.0049 U	0.0048 U	0.0052 U	0.0048 U	**0.0016 J**	0.005 U	0.0052 U	0.0047 U
	Dieldrin	mg/kg	1.4	2.8	0.0052 U	0.0051 U		0.0049 U	0.0051 U	0.0049 U	0.0048 U	0.0052 U	0.0048 U	0.0052 U	0.005 U	0.0052 U	0.0047 U

Table 1
New York State Department of Environmental Conservation
Haz-O-Waste Final Engineering Report
4123 Canal Rd., Canastota NY, 13032
Summary of Results of Analysis of Post-Excavation Samples

					Sample Location:	**HOW-PE-B-01**		**HOW-PE-B-02**	**HOW-PE-B-03**	**HOW-PE-B-04**	**HOW-PE-B-05**	**HOW-PE-B-06**	**HOW-PE-B-07**	**HOW-PE-B-08**	**HOW-PE-B-09**	**HOW-PE-SW-01**	**HOW-PE-SW-02**
					Sample Name:	HOW-PE-B-01	FD-02@ B-01	HOW-PE-B-02	HOW-PE-B-03	HOW-PE-B-04	HOW-PE-B-05	HOW-PE-B-06	HOW-PE-B-07	HOW-PE-B-08	HOW-PE-B-09	HOW-PE-SW-01	HOW-PE-SW-02
					Lab Sample ID^:	23K1927-13/L1678851-13	23K1927-23/L1678851-23	23K1927-14/L1678851-14	23K1927-15/L1678851-15	23K1927-16/L1678851-16	23K1927-17/L1678851-17	23K1927-18/L1678851-18	23K1927-19/L1678851-19	23K1927-20/L1678851-20	23K1927-21/L1678851-21	23K1927-01/L1678851-01	23K1927-02/L1678851-02
					Sample Depth:	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	419 ft	419 ft
					Sample Date:	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023
Analysis	Analyte	Unit	Commercial Use*	Industrial Use*			Field Dup										
	Endosulfan I	mg/kg	200	920	0.0066 U	0.0064 U		0.0061 U	0.0063 U	0.0061 U	0.006 U	0.0065 U	0.006 U	0.0065 U	0.0062 U	0.0064 U	0.0058 U
	Endosulfan II	mg/kg	200	920	0.01 U	0.01 U		0.0097 U	0.01 U	0.0098 U	0.0096 U	0.01 U	0.0096 U	0.01 U	0.0099 U	0.01 U	0.0093 U
	Endosulfan Sulfate	mg/kg	200	920	0.01 U	0.01 U		0.0097 U	0.01 U	0.0098 U	0.0096 U	0.01 U	0.0096 U	0.01 U	0.0099 U	0.01 U	0.0093 U
	Endrin	mg/kg	89	410	0.01 U	0.01 U		0.0097 U	0.01 U	0.0098 U	0.0096 U	0.01 U	0.0096 U	0.01 U	0.0099 U	0.01 U	0.0093 U
	Endrin Aldehyde	mg/kg	NC	NC	0.01 U	0.01 U		0.0097 U	0.01 U	0.0098 U	0.0096 U	0.01 U	0.0096 U	0.01 U	0.0099 U	0.01 U	0.0093 U
	Endrin Ketone	mg/kg	NC	NC	0.01 U	0.01 U		0.0097 U	0.01 U	0.0098 U	0.0096 U	0.01 U	0.0096 U	0.01 U	0.0099 U	0.01 U	0.0093 U
	Heptachlor	mg/kg	15	29	0.0066 U	0.0064 U		0.0061 U	0.0063 U	0.0061 U	0.006 U	0.0065 U	0.006 U	0.0065 U	0.0062 U	0.0064 U	0.0058 U
	Heptachlor Epoxide	mg/kg	NC	NC	0.0066 U	0.0064 U		0.0061 U	0.0063 U	0.0061 U	0.006 U	0.0065 U	0.006 U	0.0065 U	0.0062 U	0.0064 U	0.0058 U
	Hexachlorobenzene	mg/kg	6	12	0.0079 U	0.0077 U		0.0073 U	0.0076 U	0.0073 U	0.0072 U	0.0077 U	0.0072 U	0.0078 U	0.0075 U	0.0077 U	0.007 U
	Methoxychlor	mg/kg	NC	NC	0.066 U	0.064 U		0.061 U	0.063 U	0.061 U	0.06 U	0.065 U	0.06 U	0.065 U	0.062 U	0.064 U	0.058 U
	Toxaphene	mg/kg	NC	NC	0.13 U	0.13 U		0.12 U	0.13 U	0.12 U	0.12 U	0.13 U	0.12 U	0.13 U	0.12 U	0.13 U	0.12 U
Herbicides																	
	2,4-D	mg/kg	NC	NC	0.07 U	0.07 U		0.07 U	0.07 U	**0.00926 J**	**0.0112 J**	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
	2,4-DB	mg/kg	NC	NC	0.07 U	0.07 U		0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
	2,4,5-TP (Silvex)	mg/kg	500	1,000	0.07 U	0.07 U		0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
	2,4,5-T	mg/kg	NC	NC	0.07 U	0.07 U		0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
	Dalapon	mg/kg	NC	NC	0.07 U	0.07 U		0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
	Dicamba	mg/kg	NC	NC	0.07 U	0.07 U		0.07 U	0.07 U	**0.0160 J**	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
	Dichloroprop	mg/kg	NC	NC	0.07 U	0.07 U		0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
	Dinoseb	mg/kg	NC	NC	0.07 U	0.07 U		0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
	MCPA	mg/kg	NC	NC	6.5 U	6.5 U		6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U
	MCPP	mg/kg	NC	NC	6.5 U	6.5 U		6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U
Metals, total																	
	Aluminum	mg/kg	NC	NC	**3,300**	**3,400**		**3,200**	**3,600**	**3,600**	**3,200**	**7,500**	**2,900**	**5,000**	**4,700**	**3,700**	**9,300**
	Antimony	mg/kg	NC	NC	2.1 U	2 U		2 U	2.1 U	2 U	1.9 U	2.1 U	2 U	2.1 U	2 U	2.1 U	1.9 U
	Arsenic	mg/kg	16	16	**2.1 J**	**1.2 J**		**2.1 J**	**1.5 J**	**3.2 J**	**3.0 J**	**2.5 J**	**2.3 J**	**4.6**	**4.5**	**3.2 J**	**8.2**
	Barium	mg/kg	400	10,000	**33**	**28**		**16**	**51**	**66**	**35**	**14**	**50**	**190**	**160**	**38**	**150**
	Beryllium	mg/kg	590	2,700	**0.23**	**0.19 J**		**0.21**	**0.28**	**0.20 J**	**0.18 J**	**0.36**	**0.17 J**	**0.30**	**0.28**	**0.26**	**0.50**
	Cadmium	mg/kg	9.3	60	0.43 U	0.41 U		0.39 U	0.41 U	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.4 U	0.43 U	**0.15 J**
	Calcium	mg/kg	NC	NC	**42,000**	**29,000**		**39,000**	**50,000**	**52,000**	**47,000**	**68,000**	**45,000**	**47,000**	**51,000**	**33,000**	**3,000**
	Chromium	mg/kg	NC	NC	**5.9**	**5.4**		**5.6**	**6.3**	**5.9**	**5.7**	**11**	**4.9**	**8.1**	**7.6**	**6.2**	**14**
	Chromium (VI)	mg/kg	400	800	0.21 U	0.2 U		0.19 U	0.2 U	0.19 U	0.19 U	0.21 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U
	Cobalt	mg/kg	NC	NC	**2.5**	**2.8**		**2.8**	**2.4**	**4.9**	**3.9**	**4.7**	**2.6**	**5.3**	**4.9**	**3.6**	**7.1**
	Copper	mg/kg	270	10,000	**17**	**17**		**25**	**15**	**19**	**270**	**35**	**15**	**17**	**16**	**20**	**14**
	Iron	mg/kg	NC	NC	**7,900**	**7,300**		**6,400**	**6,700**	**8,300**	**7,600**	**15,000**	**6,500**	**12,000**	**12,000**	**15,000**	**26,000**
	Lead	mg/kg	1,000	3,900	**3.0**	**3.7**		**4.0**	**3.1**	**2.8**	**3.3**	**2.5**	**2.3**	**5.3**	**5.0**	**5.2**	**6.1**
	Magnesium	mg/kg	NC	NC	**11,000**	**10,000**		**12,000**	**14,000**	**20,000**	**14,000**	**33,000**	**12,000**	**17,000**	**18,000**	**12,000**	**4,600**
	Manganese	mg/kg	10,000	10,000	**170**	**150**		**160**	**180**	**290**	**230**	**330**	**200**	**840**	**530**	**230**	**1,100**
	Mercury	mg/kg	2.8	5.7	0.032 U	**0.029**		0.03 U	0.029 U	**0.017 J**	**0.013 J**	**0.018 J**	**0.012 J**	**0.020 J**	**0.014 J**	0.032 U	**0.037**
	Nickel	mg/kg	310	10,000	**7.2**	**7.6**		**7.0**	**7.0**	**9.5**	**8.5**	**14**	**6.8**	**11**	**11**	**8.0**	**15**
	Potassium	mg/kg	NC	NC	**700**	**720**		**700**	**770**	**810**	**740**	**1,400**	**700**	**1,100**	**970**	**760**	**1,200**
	Selenium	mg/kg	1,500	6,800	4.3 U	4.1 U		3.9 U	4.1 U	4 U	3.8 U	4.2 U	3.9 U	4.2 U	4 U	4.3 U	3.7 U
	Silver	mg/kg	1,500	6,800	0.43 U	0.41 U		0.39 U	0.41 U	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.4 U	0.43 U	0.37 U
	Sodium	mg/kg	NC	NC	**52 J**	**54 J**		**50 J**	**64 J**	**88 J**	**81 J**	**98 J**	**55 J**	**92 J**	**90 J**	**69 J**	**44 J**
	Thallium	mg/kg	NC	NC	2.1 U	2 U		2 U	2.1 U	2 U	1.9 U	2.1 U	2 U	2.1 U	2 U	2.1 U	1.9 U
	Vanadium	mg/kg	NC	NC	**8.1**	**7.3**		**6.4**	**8.6**	**6.6**	**6.0**	**10**	**4.9**	**9.8**	**9.2**	**13**	**18**
	Zinc	mg/kg	10,000	10,000	**19**	**19**		**18**	**18**	**25**	**18**	**27**	**21**	**26**	**26**	**18**	**44**
PFAS																	
	Perfluorobutanoic Acid (PFBA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorobutanesulfonic Acid (PFBS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoropentanoic Acid (PFPeA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorohexanoic Acid (PFHxA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	11Cl-PF3OUdS (F53B Minor)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	9Cl-PF3ONS (F53B Major)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	HFPO-DA (GenX)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	8:2 Fluorotelomer Sulfonate (8:2 FTS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U

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4123 Canal Rd., Canastota NY, 13032
Summary of Results of Analysis of Post-Excavation Samples

					Sample Location:	**HOW-PE-B-01**		**HOW-PE-B-02**	**HOW-PE-B-03**	**HOW-PE-B-04**	**HOW-PE-B-05**	**HOW-PE-B-06**	**HOW-PE-B-07**	**HOW-PE-B-08**	**HOW-PE-B-09**	**HOW-PE-SW-01**	**HOW-PE-SW-02**
					Sample Name:	HOW-PE-B-01	FD-02@ B-01	HOW-PE-B-02	HOW-PE-B-03	HOW-PE-B-04	HOW-PE-B-05	HOW-PE-B-06	HOW-PE-B-07	HOW-PE-B-08	HOW-PE-B-09	HOW-PE-SW-01	HOW-PE-SW-02
					Lab Sample ID^:	23K1927-13/L1678851-13	23K1927-23/L1678851-23	23K1927-14/L1678851-14	23K1927-15/L1678851-15	23K1927-16/L1678851-16	23K1927-17/L1678851-17	23K1927-18/L1678851-18	23K1927-19/L1678851-19	23K1927-20/L1678851-20	23K1927-21/L1678851-21	23K1927-01/L1678851-01	23K1927-02/L1678851-02
					Sample Depth:	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	416 ft	419 ft	419 ft
					Sample Date:	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023
Analysis	Analyte	Unit	Commercial Use*	Industrial Use*			Field Dup										
	Perfluorodecanoic Acid (PFDA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorododecanoic Acid (PFDoA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoroheptanesulfonic Acid (PFHpS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	N-EtFOSAA	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	N-MeFOSAA	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorotetradecanoic Acid (PFTeA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorotridecanoic Acid (PFTriA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	4:2 Fluorotelomer Sulfonate (4:2 FTS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorodecanesulfonic Acid (PFDS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorooctane Sulfonamide (FOSA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorononanesulfonic Acid (PFNS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorohexanesulfonamide (FHxSA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorobutylsulfonamide (FBSA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorohexanesulfonic Acid (PFHxS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoro-3-methoxypropanoic Acid (PFMPA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoro(4-methoxybutanoic) Acid (PFMBA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	6:2 Fluorotelomer Sulfonate (6:2 FTS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoropentanesulfonic Acid (PFPeS)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoroundecanoic Acid (PFUnA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluoroheptanoic Acid (PFHpA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorooctanoic Acid (PFOA)	mg/kg	0.5	0.6	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	**0.00027 J**	0.00054 U	0.00058 U	**0.00019 J**
	Perfluorooctanesulfonic Acid (PFOS)	mg/kg	0.44	0.44	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U
	Perfluorononanoic Acid (PFNA)	mg/kg	NC	NC	0.00057 U	0.00056 U		0.00053 U	0.00053 U	0.00052 U	0.00052 U	0.00058 U	0.00052 U	0.00055 U	0.00054 U	0.00058 U	0.00051 U

Notes:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
NC - No NYSDEC standards exist for this analyte.
U - Analyte was not detected at specified quantitation limit.
Values in **bold** indicate the analyte was detected.
Values shown in bold and shaded type exceed one or more of the listed SCOs.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.
PCBs - Polychlorinated Biphenyls.
* - New York State Department of Enviromental Conservation, Soil Cleanup Objectives (SCOs).
** - Criteria applicable to xylene (total), the sum of the xylene isomers.
^ - Lab Sample ID for other/Herbicide analysis; otherwise the Lab sample ID applies to all listed analyses.

Table 1
New York State Department of Environmental Conservation
Haz-O-Waste Final Engineering Report
4123 Canal Rd., Canastota NY, 13032
Summary of Results of Analysis of Post-Excavation Samples

					Sample Location:		HOW-PE-SW-03		HOW-PE-SW-04		HOW-PE-SW-05		HOW-PE-SW-06		HOW-PE-SW-07		HOW-PE-SW-08		HOW-PE-SW-09		HOW-PE-SW-10		HOW-PE-SW-11		HOW-PE-SW-12		
					Sample Name:		HOW-PE-SW-03		HOW-PE-SW-04		HOW-PE-SW-05		HOW-PE-SW-06		HOW-PE-SW-07		HOW-PE-SW-08		HOW-PE-SW-09		HOW-PE-SW-10		HOW-PE-SW-11		HOW-PE-SW-12		FD-01@ SW12
					Lab Sample ID^:		23K1927-03/L1678851-03		23K1927-04/L1678851-04		23K1927-05/L1678851-05		23K1927-06/L1678851-06		23K1927-07/L1678851-07		23K1927-08/L1678851-08		23K1927-09/L1678851-09		23K1927-10/L1678851-10		23K1927-11/L1678851-11		23K1927-12/L1678851-12		23K1927-22/L1678851-22
					Sample Depth:		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft
					Sample Date:		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023
Analysis	Analyte	Unit	Commercial Use*	Industrial Use*																							Field Dup
VOCs																											
	Benzene	mg/kg	44	89		0.68	U	0.32	U	0.078	U	6.3	U	0.0017	U	0.0025	U	0.0011	U	0.58	U	7.1	U	0.002	U	0.0021	U
	n-Butylbenzene	mg/kg	500	1,000		**0.18**	**J**	**0.082**	**J**	0.078	U	**7.7**		0.0017	U	0.0025	U	0.0011	U	**2.4**		**1.1**	**J**	**0.013**		**0.0021**	
	sec-Butylbenzene	mg/kg	500	1,000		0.68	U	**0.060**	**J**	0.078	U	**4.5**	**J**	0.0017	U	0.0025	U	0.0011	U	**2.3**		7.1	U	**0.0056**		**0.0010**	**J**
	tert-Butylbenzene	mg/kg	500	1,000		0.68	U	0.32	U	0.078	U	6.3	U	0.0017	U	0.0025	U	0.0011	U	**0.10**	**J**	7.1	U	0.002	U	0.0021	U
	Ethyl Benzene	mg/kg	390	780		**9.5**		**1.3**		**0.047**	**J**	**100**		0.0017	U	0.0025	U	0.0011	U	0.58	U	**240**		**0.0022**		0.0021	U
	Isopropylbenzene (Cumene)	mg/kg	NC	NC		**0.73**		**0.32**		0.078	U	**11**		0.0017	U	0.0025	U	0.0011	U	**0.92**		**3.5**	**J**	**0.012**		**0.0029**	
	p-Isopropyltoluene (p-Cymene)	mg/kg	NC	NC		0.68	U	**0.057**	**J**	0.078	U	**3.0**	**J**	0.0017	U	0.0025	U	0.0011	U	0.58	U	7.1	U	**0.0041**		0.0021	U
	Methyl tert-Butyl Ether (MTBE)	mg/kg	500	1,000		0.68	U	0.32	U	0.078	U	6.3	U	0.0034	U	0.005	U	0.0022	U	0.58	U	7.1	U	0.0039	U	0.0041	U
	Naphthalene	mg/kg	500	1,000		**34**		**3.4**		0.16	U	**9.8**	**J**	0.0034	U	0.005	U	0.0022	U	**7.6**		**27**		**0.016**		**0.0048**	
	n-Propylbenzene	mg/kg	500	1,000		**1.2**		**1.1**		**0.011**	**J**	**71**		0.0017	U	0.0025	U	0.0011	U	**1.7**		**3.9**	**J**	**0.031**		**0.0073**	
	Toluene	mg/kg	500	1,000		**77**		**4.8**		**0.087**		**200**		0.0017	U	0.0025	U	**0.0019**		0.58	U	**790**		**0.0091**		**0.0027**	
	1,2,4-Trimethylbenzene	mg/kg	190	380		**5.9**		**11**		**0.046**	**J**	**400**		0.0017	U	0.0025	U	0.0011	U	**0.34**	**J**	**13**		**0.25**		**0.021**	
	1,3,5-Trimethylbenzene	mg/kg	190	380		**2.3**		**3.9**		**0.020**	**J**	**150**		0.0017	U	0.0025	U	0.0011	U	**0.12**	**J**	**4.9**	**J**	0.002	U	0.0021	U
	m/p Xylene	mg/kg	500**	1,000**		**36**		**5.3**		**0.13**	**J**	**330**		0.0034	U	**0.0033**	**J**	**0.0019**	**J**	1.2	U	**690**		**0.0092**		**0.0027**	**J**
	o-Xylene	mg/kg	500**	1,000**		**14**		**2.4**		**0.037**	**J**	**130**		0.0017	U	0.0025	U	0.0011	U	0.58	U	**200**		**0.0024**		**0.00076**	**J**
	1,4-Dioxane	mg/kg	130	250		0.064	U	0.063	U	0.063	U	0.059	U	0.058	U	0.074	U	0.06	U	0.058	U	0.13	U	0.062	U	0.064	U
SVOCs																											
	Acenaphthene	mg/kg	500	1,000		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Acenaphthylene	mg/kg	500	1,000		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Anthracene	mg/kg	500	1,000		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Benzo(a)anthracene	mg/kg	5.6	11		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Benzo(a)pyrene	mg/kg	1	1.1		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Benzo(b)fluoranthene	mg/kg	5.6	11		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Benzo(g,h,i)perylene	mg/kg	500	1,000		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Benzo(k)fluoranthene	mg/kg	56	110		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Chrysene	mg/kg	56	110		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Dibenz(a,h)anthracene	mg/kg	0.56	1.1		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Fluoranthene	mg/kg	500	1,000		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Fluorene	mg/kg	500	1,000		0.21	U	0.21	U	**0.27**	**J**	0.2	U	0.2	U	0.25	U	0.4	U	**1.3**		1.3	U	0.21	U	0.22	U
	Indeno(1,2,3-cd)pyrene	mg/kg	5.6	11		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	0.39	U	1.3	U	0.21	U	0.22	U
	Naphthalene	mg/kg	500	1,000		**0.089**	**J**	0.21	U	**1.5**		0.2	U	0.2	U	0.25	U	0.4	U	**0.43**		1.3	U	**0.31**		0.22	U
	Phenanthrene	mg/kg	500	1,000		0.21	U	0.21	U	**0.62**		**0.30**		0.2	U	0.25	U	0.4	U	**2.9**		1.3	U	**0.11**	**J**	**0.16**	**J**
	Pyrene	mg/kg	500	1,000		0.21	U	0.21	U	0.42	U	0.2	U	0.2	U	0.25	U	0.4	U	**0.16**	**J**	1.3	U	0.21	U	0.22	U
PCBs																											
	Aroclor-1016	mg/kg	NC	NC		0.1	U	0.1	U	0.1	U	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	0.1	U	0.1	U	0.1	U
	Aroclor-1221	mg/kg	NC	NC		0.1	U	0.1	U	0.1	U	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	0.1	U	0.1	U	0.1	U
	Aroclor-1232	mg/kg	NC	NC		0.1	U	0.1	U	0.1	U	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	0.1	U	0.1	U	0.1	U
	Aroclor-1242	mg/kg	NC	NC		0.1	U	0.1	U	0.1	U	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	0.1	U	0.1	U	0.1	U
	Aroclor-1248	mg/kg	NC	NC		**0.24**		0.1	U	**0.072**	**J**	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	**0.027**	**J**	**0.25**		**0.17**	
	Aroclor-1254	mg/kg	NC	NC		**0.70**		0.1	U	**0.091**	**J**	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	0.1	U	0.1	U	0.1	U
	Aroclor-1260	mg/kg	NC	NC		0.1	U	0.1	U	0.1	U	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	0.1	U	0.1	U	0.1	U
	Aroclor-1262	mg/kg	NC	NC		0.1	U	0.1	U	0.1	U	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	0.1	U	0.1	U	0.1	U
	Aroclor-1268	mg/kg	NC	NC		0.1	U	0.1	U	0.1	U	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	0.1	U	0.1	U	0.1	U
	Total PCBs	mg/kg	NC	NC		**0.94**		0.1	U	**0.163**	**J**	0.094	U	0.094	U	0.12	U	0.096	U	0.092	U	**0.027**	**J**	**0.25**		**0.17**	
Pesticides																											
	Alachlor	mg/kg	NC	NC		0.025	U	0.025	U	0.025	U	0.024	U	0.023	U	0.029	U	0.024	U	0.023	U	0.026	U	0.025	U	0.025	U
	Aldrin	mg/kg	0.68	1.4		0.0064	U	0.0063	U	0.0063	U	0.0059	U	0.0059	U	0.0073	U	0.006	U	0.0058	U	0.0065	U	0.0063	U	0.0062	U
	alpha-BHC	mg/kg	3.4	6.8		0.0064	U	0.0063	U	0.0063	U	0.0059	U	0.0059	U	0.0073	U	0.006	U	0.0058	U	0.0065	U	0.0063	U	0.0062	U
	beta-BHC	mg/kg	3	14		0.0064	U	0.0063	U	0.0063	U	0.0059	U	0.0059	U	0.0073	U	0.006	U	0.0058	U	0.0065	U	0.0063	U	0.0062	U
	delta-BHC	mg/kg	500	1,000		0.0064	U	0.0063	U	0.0063	U	0.0059	U	0.0059	U	0.0073	U	0.006	U	0.0058	U	0.0065	U	0.0063	U	0.0062	U
	gamma-BHC (Lindane)	mg/kg	9.2	23		0.0025	U	0.0025	U	0.0025	U	0.0024	U	0.0023	U	0.0029	U	0.0024	U	0.0023	U	0.0026	U	0.0025	U	0.0025	U
	Chlordane	mg/kg	NC	NC		0.025	U	0.025	U	0.025	U	0.024	U	0.023	U	0.029	U	0.024	U	0.023	U	0.026	U	0.025	U	0.025	U
	4,4-DDD	mg/kg	92	180		0.0051	U	0.005	U	0.005	U	0.0047	U	0.0047	U	0.0059	U	0.0048	U	0.0046	U	**0.0018**	**J**	0.005	U	0.005	U
	4,4-DDE	mg/kg	62	120		0.0051	U	0.005	U	0.005	U	0.0047	U	0.0047	U	0.0059	U	**0.0016**	**J**	0.0046	U	**0.0011**	**J**	0.005	U	0.005	U
	4,4-DDT	mg/kg	47	94		0.0051	U	0.005	U	0.005	U	0.0047	U	0.0047	U	0.0059	U	**0.00063**	**J**	0.0046	U	**0.00094**	**J**	0.005	U	0.005	U
	Dieldrin	mg/kg	1.4	2.8		0.0051	U	0.005	U	0.005	U	0.0047	U	0.0047	U	0.0059	U	0.0048	U	0.0046	U	0.0052	U	0.005	U	0.005	U

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4123 Canal Rd., Canastota NY, 13032
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					Sample Location:		HOW-PE-SW-03		HOW-PE-SW-04		HOW-PE-SW-05		HOW-PE-SW-06		HOW-PE-SW-07		HOW-PE-SW-08		HOW-PE-SW-09		HOW-PE-SW-10		HOW-PE-SW-11		HOW-PE-SW-12		
					Sample Name:		HOW-PE-SW-03		HOW-PE-SW-04		HOW-PE-SW-05		HOW-PE-SW-06		HOW-PE-SW-07		HOW-PE-SW-08		HOW-PE-SW-09		HOW-PE-SW-10		HOW-PE-SW-11		HOW-PE-SW-12		FD-01@ SW12
					Lab Sample ID^:		23K1927-03/L1678851-03		23K1927-04/L1678851-04		23K1927-05/L1678851-05		23K1927-06/L1678851-06		23K1927-07/L1678851-07		23K1927-08/L1678851-08		23K1927-09/L1678851-09		23K1927-10/L1678851-10		23K1927-11/L1678851-11		23K1927-12/L1678851-12		23K1927-22/L1678851-22
					Sample Depth:		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft
					Sample Date:		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023
Analysis	Analyte	Unit	Commercial Use*	Industrial Use*																							Field Dup
	Endosulfan I	mg/kg	200	920		0.0064	U	0.0063	U	0.0063	U	0.0059	U	0.0059	U	0.0073	U	0.006	U	0.0058	U	0.0065	U	0.0063	U	0.0062	U
	Endosulfan II	mg/kg	200	920		0.01	U	0.01	U	0.01	U	0.0094	U	0.0094	U	0.012	U	0.0096	U	0.0092	U	0.01	U	0.01	U	0.01	U
	Endosulfan Sulfate	mg/kg	200	920		0.01	U	0.01	U	0.01	U	0.0094	U	0.0094	U	0.012	U	0.0096	U	0.0092	U	0.01	U	0.01	U	0.01	U
	Endrin	mg/kg	89	410		0.01	U	0.01	U	0.01	U	0.0094	U	0.0094	U	0.012	U	0.0096	U	0.0092	U	0.01	U	0.01	U	0.01	U
	Endrin Aldehyde	mg/kg	NC	NC		0.01	U	0.01	U	0.01	U	0.0094	U	0.0094	U	0.012	U	0.0096	U	0.0092	U	0.01	U	0.01	U	0.01	U
	Endrin Ketone	mg/kg	NC	NC		0.01	U	0.01	U	0.01	U	0.0094	U	0.0094	U	0.012	U	0.0096	U	0.0092	U	0.01	U	0.01	U	0.01	U
	Heptachlor	mg/kg	15	29		0.0064	U	0.0063	U	0.0063	U	0.0059	U	0.0059	U	0.0073	U	0.006	U	0.0058	U	0.0065	U	0.0063	U	0.0062	U
	Heptachlor Epoxide	mg/kg	NC	NC		0.0064	U	0.0063	U	0.0063	U	0.0059	U	0.0059	U	0.0073	U	0.006	U	0.0058	U	0.0065	U	0.0063	U	0.0062	U
	Hexachlorobenzene	mg/kg	6	12		0.0076	U	0.0076	U	**0.0066**	**J**	0.0071	U	0.007	U	0.0088	U	0.0072	U	0.0069	U	0.0078	U	0.0075	U	0.0075	U
	Methoxychlor	mg/kg	NC	NC		0.064	U	0.063	U	0.063	U	0.059	U	0.059	U	0.073	U	0.06	U	0.058	U	0.065	U	0.063	U	0.062	U
	Toxaphene	mg/kg	NC	NC		0.13	U	0.13	U	0.13	U	0.12	U	0.12	U	0.15	U	0.12	U	0.12	U	0.13	U	0.13	U	0.12	U
Herbicides																											
	2,4-D	mg/kg	NC	NC		0.07	U	0.07	U	0.07	U	**0.0178**	**J**	**0.0102**	**J**	0.07	U	**0.0134**	**J**	0.07	U	0.07	U	**0.0188**	**J**	0.07	U
	2,4-DB	mg/kg	NC	NC		0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
	2,4,5-TP (Silvex)	mg/kg	500	1,000		0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
	2,4,5-T	mg/kg	NC	NC		0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
	Dalapon	mg/kg	NC	NC		0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
	Dicamba	mg/kg	NC	NC		0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
	Dichloroprop	mg/kg	NC	NC		0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
	Dinoseb	mg/kg	NC	NC		0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
	MCPA	mg/kg	NC	NC		6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U
	MCPP	mg/kg	NC	NC		6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U	6.5	U
Metals, total																											
	Aluminum	mg/kg	NC	NC		**10,000**		**8,200**		**9,500**		**8,100**		**8,700**		**11,000**		**6,900**		**7,900**		**6,800**		**9,100**		**8,200**	
	Antimony	mg/kg	NC	NC		2	U	2	U	2.1	U	1.9	U	1.9	U	2.4	U	1.9	U	1.8	U	2.1	U	2	U	2.1	U
	Arsenic	mg/kg	16	16		**4.9**		**1.2**	**J**	**8.0**		**2.3**	**J**	**8.1**		**15**		**4.3**		**8.8**		**12**		**4.5**		**4.8**	
	Barium	mg/kg	400	10,000		**170**		**33**		**130**		**110**		**190**		**710**		**40**		**180**		**38**		**170**		**75**	
	Beryllium	mg/kg	590	2,700		**0.45**		**0.35**		**0.53**		**0.37**		**0.45**		**0.65**		**0.38**		**0.50**		**0.47**		**0.50**		**0.40**	
	Cadmium	mg/kg	9.3	60		**0.22**	**J**	0.41	U	0.41	U	**0.18**	**J**	**0.35**	**J**	**0.42**	**J**	0.38	U	**0.25**	**J**	0.42	U	**0.26**	**J**	0.43	U
	Calcium	mg/kg	NC	NC		**3,300**		**28,000**		**3,000**		**17,000**		**6,500**		**4,900**		**30,000**		**2,800**		**4,600**		**6,300**		**1,800**	
	Chromium	mg/kg	NC	NC		**16**		**12**		**16**		**11**		**13**		**17**		**11**		**13**		**11**		**13**		**13**	
	Chromium (VI)	mg/kg	400	800		**1.2**		0.2	U	0.4	U	0.18	U	0.18	U	0.23	U	0.19	U	0.18	U	0.21	U	0.19	U	0.2	U
	Cobalt	mg/kg	NC	NC		**8.2**		**5.0**		**11**		**3.5**		**10**		**15**		**5.1**		**13**		**7.5**		**5.7**		**7.3**	
	Copper	mg/kg	270	10,000		**15**		**12**		**23**		**16**		**11**		**15**		**28**		**24**		**32**		**19**		**14**	
	Iron	mg/kg	NC	NC		**22,000**		**16,000**		**27,000**		**9,600**		**26,000**		**36,000**		**15,000**		**22,000**		**28,000**		**15,000**		**18,000**	
	Lead	mg/kg	1,000	3,900		**8.6**		**3.7**		**6.0**		**27**		**5.7**		**8.3**		**5.3**		**5.5**		**5.3**		**9.0**		**4.5**	
	Magnesium	mg/kg	NC	NC		**5,300**		**18,000**		**5,400**		**6,400**		**4,300**		**5,300**		**13,000**		**4,300**		**5,400**		**4,700**		**4,700**	
	Manganese	mg/kg	10,000	10,000		**2,100**		**200**		**480**		**290**		**5,800**		**3,900**		**260**		**3,500**		**400**		**390**		**340**	
	Mercury	mg/kg	2.8	5.7		**0.057**		**0.034**		**0.022**	**J**	**0.028**		**0.054**		**0.036**		0.028	U	**0.022**	**J**	**0.014**	**J**	**0.015**	**J**	**0.037**	
	Nickel	mg/kg	310	10,000		**17**		**14**		**21**		**9.9**		**14**		**18**		**12**		**21**		**14**		**13**		**16**	
	Potassium	mg/kg	NC	NC		**1,400**		**1,400**		**1,800**		**1,400**		**1,200**		**1,700**		**1,400**		**1,200**		**1,200**		**1,400**		**1,300**	
	Selenium	mg/kg	1,500	6,800		4	U	4.1	U	4.1	U	3.8	U	3.8	U	4.8	U	3.8	U	3.7	U	4.2	U	4	U	4.3	U
	Silver	mg/kg	1,500	6,800		0.4	U	0.41	U	0.41	U	0.38	U	0.38	U	0.48	U	0.38	U	0.37	U	0.42	U	0.4	U	0.43	U
	Sodium	mg/kg	NC	NC		**56**	**J**	**68**	**J**	**67**	**J**	**170**	**J**	**65**	**J**	240	U	**66**	**J**	**79**	**J**	**53**	**J**	**46**	**J**	**49**	**J**
	Thallium	mg/kg	NC	NC		2	U	2	U	2.1	U	1.9	U	1.9	U	2.4	U	1.9	U	1.8	U	2.1	U	2	U	2.1	U
	Vanadium	mg/kg	NC	NC		**17**		**13**		**20**		**11**		**17**		**25**		**12**		**18**		**15**		**14**		**15**	
	Zinc	mg/kg	10,000	10,000		**46**		**30**		**42**		**40**		**43**		**72**		**29**		**36**		**35**		**46**		**34**	
PFAS																											
	Perfluorobutanoic Acid (PFBA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorobutanesulfonic Acid (PFBS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoropentanoic Acid (PFPeA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorohexanoic Acid (PFHxA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	11Cl-PF3OUdS (F53B Minor)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	9Cl-PF3ONS (F53B Major)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	HFPO-DA (GenX)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	8:2 Fluorotelomer Sulfonate (8:2 FTS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U

Table 1
New York State Department of Environmental Conservation
Haz-O-Waste Final Engineering Report
4123 Canal Rd., Canastota NY, 13032
Summary of Results of Analysis of Post-Excavation Samples

					Sample Location:		HOW-PE-SW-03		HOW-PE-SW-04		HOW-PE-SW-05		HOW-PE-SW-06		HOW-PE-SW-07		HOW-PE-SW-08		HOW-PE-SW-09		HOW-PE-SW-10		HOW-PE-SW-11		HOW-PE-SW-12		
					Sample Name:		HOW-PE-SW-03		HOW-PE-SW-04		HOW-PE-SW-05		HOW-PE-SW-06		HOW-PE-SW-07		HOW-PE-SW-08		HOW-PE-SW-09		HOW-PE-SW-10		HOW-PE-SW-11		HOW-PE-SW-12		FD-01@ SW12
					Lab Sample ID^:		23K1927-03/L1678851-03		23K1927-04/L1678851-04		23K1927-05/L1678851-05		23K1927-06/L1678851-06		23K1927-07/L1678851-07		23K1927-08/L1678851-08		23K1927-09/L1678851-09		23K1927-10/L1678851-10		23K1927-11/L1678851-11		23K1927-12/L1678851-12		23K1927-22/L1678851-22
					Sample Depth:		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft		419 ft
					Sample Date:		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023		11/14/2023
Analysis	Analyte	Unit	Commercial Use*	Industrial Use*																							Field Dup
	Perfluorodecanoic Acid (PFDA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorododecanoic Acid (PFDoA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoroheptanesulfonic Acid (PFHpS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	N-EtFOSAA	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	N-MeFOSAA	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorotetradecanoic Acid (PFTeA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorotridecanoic Acid (PFTriA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	4:2 Fluorotelomer Sulfonate (4:2 FTS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorodecanesulfonic Acid (PFDS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorooctane Sulfonamide (FOSA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorononanesulfonic Acid (PFNS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorohexanesulfonamide (FHxSA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorobutylsulfonamide (FBSA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorohexanesulfonic Acid (PFHxS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoro-3-methoxypropanoic Acid (PFMPA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoro(4-methoxybutanoic) Acid (PFMBA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	6:2 Fluorotelomer Sulfonate (6:2 FTS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoropentanesulfonic Acid (PFPeS)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoroundecanoic Acid (PFUnA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluoroheptanoic Acid (PFHpA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorooctanoic Acid (PFOA)	mg/kg	0.5	0.6		**0.00030**	**J**	0.00057	U	0.00056	U	**0.00028**	**J**	0.00049	U	**0.00078**		0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorooctanesulfonic Acid (PFOS)	mg/kg	0.44	0.44		0.00053	U	0.00057	U	**0.0014**		0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U
	Perfluorononanoic Acid (PFNA)	mg/kg	NC	NC		0.00053	U	0.00057	U	0.00056	U	0.0005	U	0.00049	U	0.00066	U	0.0005	U	0.00052	U	0.00056	U	0.00052	U	0.00055	U

Notes:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
NC - No NYSDEC standards exist for this analyte.
U - Analyte was not detected at specified quantitation limit.
Values in **bold** indicate the analyte was detected.
Values shown in bold and shaded type exceed one or more of the listed SCOs.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.
PCBs - Polychlorinated Biphenyls.
* - New York State Department of Enviromental Conservation, Soil Cleanup Objectives (SCOs).
** - Criteria applicable to xylene (total), the sum of the xylene isomers.
^ - Lab Sample ID for other/Herbicide analysis; otherwise the Lab sample ID applies to all listed analyses.

Table 2
New York State Department of Environmental Conservation
Haz-O-Waste Final Engineering Report
4123 Canal Rd., Canastota NY, 13032
Summary of Results of Analysis of Groundwater for Volatile Organic Compounds

	Sample Location:	HOW-MW-301				HOW-MW-303		HOW-MW-305		HOW-MW-306		HOW-MW-401		HOW-MW-402	
	Sample Name:	HOW-MW-301		DUP-01		HOW-MW-303		HOW-MW-305		HOW-MW-306		HOW-MW-401		HOW-MW-402	
	Laboratory Sample ID:	480-218481-1		480-218481-4		480-218481-3		480-218481-7		480-218481-8		480-218481-2		480-218481-6	
	Sample Date:	4/3/2024		4/3/2024		4/3/2024		4/3/2024		4/3/2024		4/3/2024		4/3/2024	
	Matrix:	GW		GW		GW		GW		GW		GW		GW	
	Unit:	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Analyte	Class GA Value* (µg/L)														
1,1,1-Trichloroethane	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	**7.2**	
1,1,2-Trichloroethane	1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,1,2-Trichloro- 1,2,2-trifluoroethane	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5	1.0	U	1.0	U	**1.5**		1.0	U	1.0	U	**13**		**15**	
1,1-Dichloroethene	5	1.0	U	1.0	U	1.0	UT	1.0	U	1.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	0.04	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,2-Dibromoethane (Ethylene dibromide)	0.0006	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,2-Dichloroethane	0.6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.1**	**J**	5.0	U
1,2-Dichloropropane	1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,3-Dichlorobenzene	3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
2-Butanone (MEK)	50	10	U	10	U	10	U	10	U	10	U	50	U	50	U
2-Hexanone	50	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	25	U	25	U
4-Methyl-2-pentanone	NC	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	25	U	25	U
Acetone	50	10	U	10	U	10	U	10	U	10	U	**15**	**J**	50	U
Benzene	1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Bromodichloromethane	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Bromoform	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Bromomethane	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Carbon disulfide	60	1.0	U	1.0	U	1.0	UT	1.0	U	1.0	U	5.0	U	5.0	U
Carbon tetrachloride	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Chlorobenzene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Chloroethane	5	1.0	U	1.0	U	**0.94**	**J**	1.0	U	1.0	U	**34**		**7.6**	
Chloroform	7	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Chloromethane	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5	1.0	U	1.0	U	**0.87**	**J**	1.0	U	1.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	0.4[a]	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Cyclohexane	NC	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**	**J**	5.0	U
Dibromochloromethane	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Dichlorodifluoromethane	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Ethylbenzene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**140**		5.0	U
Isopropylbenzene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**10**		5.0	U
Methyl acetate	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	13	U	13	U
Methyl tert-butyl ether	10	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Methylcyclohexane	NC	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Methylene chloride	5	1.0	U	1.0	U	1.0	UT	1.0	U	1.0	U	5.0	U	5.0	U
Styrene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Tetrachloroethene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Toluene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**31**		5.0	U
trans-1,2-Dichloroethene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
trans-1,3-Dichloropropene	0.4[a]	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Trichloroethene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	5.0	U
Vinyl chloride	2	1.0	U	1.0	U	**7.8**		1.0	U	1.0	U	5.0	U	**420**	
Xylenes, total	5[b]	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	**290**		10	U

NOTES:
µg/L - MICROGRAMS PER LITER
J - ESTIMATED VALUE
NC - NO CRITERION
T - LCS AND/OR LCSD IS OUTSIDE ACCEPTANCE LIMITS, BIASED HIGH.
U - ANALYTE WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
VALUES IN BOLD INDICATE THE ANALYTE WAS DETECTED.
SHADING INDICATES RESULT ABOVE CLASS GA VALUE.
*CLASS GA VALUE - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER.