NEW YORK
STATE OF
OPPORTUNITY

Department of
Environmental
Conservation

MULTISITE REVIEW
NEW CASSEL INDUSTRIAL AREA

Sites No. 130043 and 330043A, B, C, D, E, F, G, H, I, K, L, M, N, P, S, U and V

May 2020

MULTISITE REVIEW
NEW CASSEL INDUSTRIAL AREA
OBJECTIVES

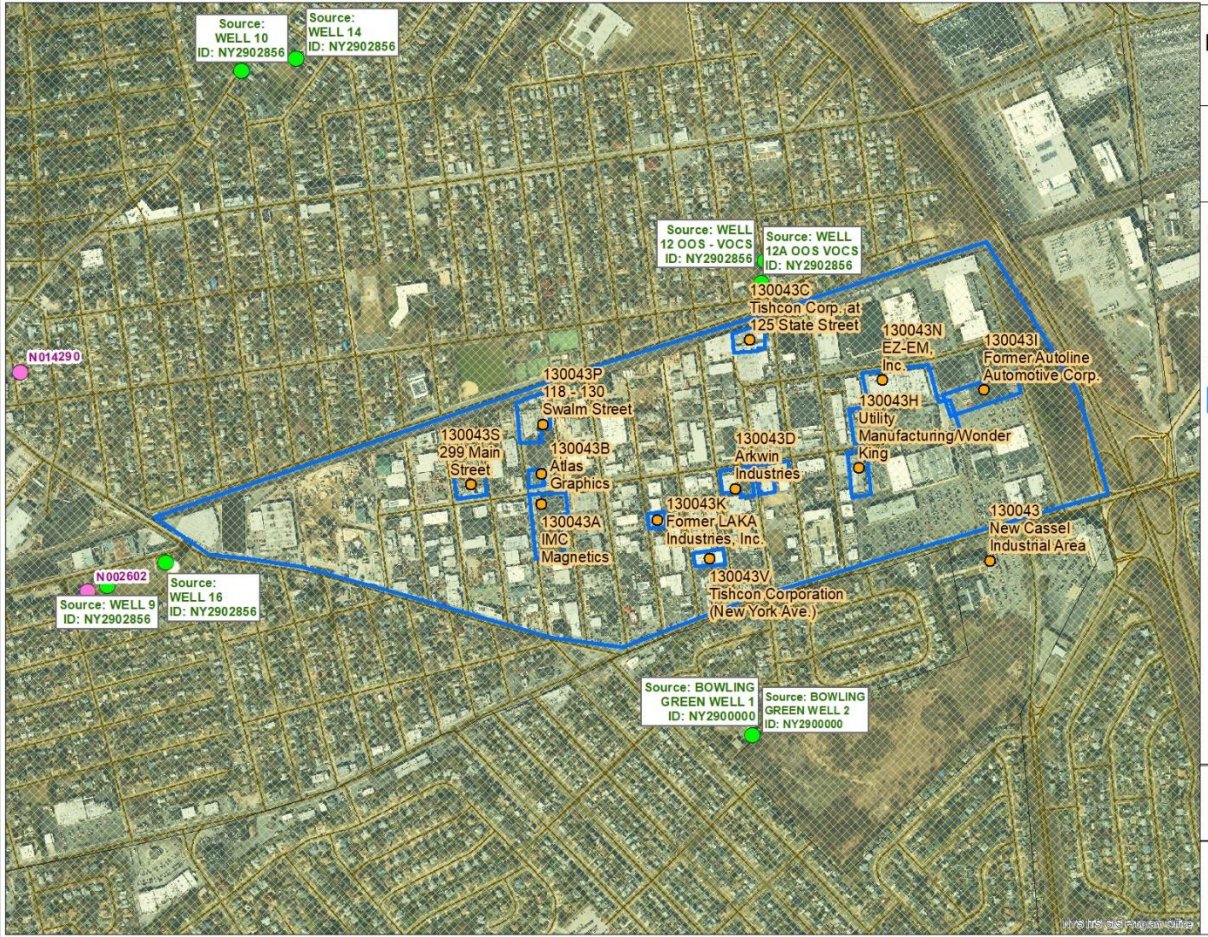
- Determine the approach for completion of the Soil Vapor Intrusion Investigations for the seven Soil Vapor Intrusion Legacy Sites within the New Cassel Industrial Area
- Determine what is needed to achieve reclassification for the Legacy Sites and several other sites. Actions needed may include finishing SVI investigations, obtaining Environmental Easements and obtaining PRR reports
- Determining the need for further EC investigations

New Cassel Industrial Area Composite Site Site 130043

The NCIA is located in an urban and industrial area with level topography and is bounded to the north by a residential area and to the south be commercial and institutional establishments along Old Country Road. The site encompasses approximately 170 acres of land.

NEW CASSEL INDUSTRIAL AREA
Geology and Hydrology

- UNSATURATED AND SATURATED ZONES CONSIST OF STRATIFIED SAND AND GRAVEL WITH SOME SILT AND CLAY LENSES
- GROUNDWATER ABOUT 65 FT BGS
- GROUNDWATER FLOW PREDOMINANTLY SSW



New Cassel Industrial Area Active Sites

Region 1 Nassau County
Town of North Hempstead

Legend

N

- Remediation Sites
- Public Wells
- Potential Private Wells
- Public Water Supply Service Areas
- Site Border

0 0.125 0.25 Miles

1 inch = 600 feet

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NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

Date Created: 4/22/2020

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COMPOSITE SITE HISTORY
SITE 130043

- The New Cassel Industrial Area was listed on the Registry in 1988 as a Class 2 site due to the presence of high levels of VOCs in groundwater
- In 1995, based on a Site Investigation Report by LMS, the entire NCIA was removed from the registry and replaced by seven individual sites. The number if individual sites would eventually reach 17. Thirteen sites eventually became Class 2.

COMPOSITE SITE HISTORY' SITE 130043

- In 2000 thru 2002, a Remedial Investigation was conducted for Off-Site Groundwater migrating from the NCIA
- Water supply wells for the Bowling Green Water District lie directly downgradient from the NCIA

COMPOSITE SITE HISTORY
SITE 130043

- In 2003 a ROD was issued for Off-Site Groundwater South of the New Cassel Industrial Area Sites.
- The ROD specified full plume remediation
- The ROD has not, as of this time, been implemented. Responsibility for Off-Site Groundwater Remediation at the NCIA has been transferred to the EPA.
- Currently, 8 individual sites remain as Class 2 sites

SVI LEGACY SITES
Sites 130043 A, B, C, F, K, N and V

- In 2007, 7 Sites were designated as SVI legacy sites. These were sites 130043A, B, C, F, K, N and V.
- Remedial parties were approached to carry out investigations, and none of them elected to do so.
- In 2008 DEC's consultant (CD&M) conducted an SVI investigation at these sites. This investigation sampled soil vapor at the site peripheries, and also provided for Groundwater sampling at each site.

New Cassel Industrial Area SVI Legacy Sites

Region 1 Nassau County
Town of North Hempstead

Legend

N

- Public Wells
- Potential Private Wells
- Site Border

0 0.125 0.25 Miles

1 inch = 550 feet

INTENDED TO PRINT AS 11 X 17

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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SVI LEGACY SITES CONTINUED

- In 2010 the DEC's consultant (MACTEC) conducted further SVI investigations at the legacy sites. This investigation provided indoor air and subslab sampling at each site. Additionally, soil borings were conducted at the 130043V site.
- The report for this investigation was completed in 2011.
- The 2008 and 2011 reports were not deemed sufficient as a basis for closing the SVI investigations.

• IMC MAGNETICS SITE 130043A

- Current Class 2 Site.
- Soil and Groundwater Remedial Investigations were completed in 1997 and 1999 respectively. The Remedial Investigations found VOC contamination in soils near the NW corner of the property and in On-Site Groundwater.
- In 1998 an OU-1 – On-Site Soils ROD was issued. The Seclected Remedy was Air Sparging applied to an area near the NW corner of the property.

• IMC MAGNETICS CONTINUED Site 130043A

- In 2000, an OU - 2 – On Site Groundwater ROD was issued. The selected remedy was In-Situ Oxidation, applied in an area near the NW corner of the Property.
- The selected remedies in the On-Site Soils and On-Site Groundwater RODS were implemented in 1999 and 2001 respectively.

IMC MAGNETICS CONTINUED
Site 130043A

- A Vapor Intrusion Investigation Report for the Site (and the other legacy sites) was completed in 2008. This investigation sampled locations on the site periphery.
- PCE in concentrations as high as 224,000 ppb was found at 45 ft bgs in the NW corner of the site.
- Groundwater samples taken in the same area showed 14ppb total VOCs. (Groundwater depth was approximately 65 ft bgs).

IMC MAGNETICS CONTINUED
Site 130043A

- A followup investigation of indoor air and subslab vapor intrusion was finished in 2011.
- Subslab soil vapor contained concentrations of PCE as high as 400,000 ug/m3. PCE concentrations in indoor air were as high as 220 ug/m3.
- Subsequently, modifications to the site building's heating system were made with the intention of mitigating indoor air concentrations.

Figure 4-1
Site A
Soil Vapor Chlorinated VOC Detections
570 Main Street
New Cassel Industrial Area
North Hempstead, New York

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Table 3.1 - IMC Magnetics (130043A) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	IMC Magnetics (130043A)									
Site	Structure A									
Location ID	A-SS-01		A-SS-02		A-SS-03		A-IA-01		A-IA-02	
Sample Date	2/15/2010		2/15/2010		2/15/2010		2/15/2010		2/15/2010	
Sample ID	130043A-SS-01		130043A-SS-02		130043A-SS-03		130043A-IA-01		130043A-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**240**		**2.8**		**95**		0.83	UJ	0.83	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	**11**		**2.3**		**470**	EJ	1.2	U	**1.8**	
1,1,2-Trichloroethane	**1.9**	J	0.83	U	0.83	U	0.83	UJ	0.83	UJ
1,1-Dichloroethane	**19**		0.62	U	0.62	U	0.62	U	0.62	U
1,2,4-Trimethylbenzene	**2.9**	J	**1.3**	J	**6.7**	J	**19**	J	7	J
1,3,5-Trimethylbenzene	**0.9**	J	0.75	UJ	**2.3**	J	**4.6**	J	7.3	J
2-Butanone	**13**		**2.9**		4		0.9	U	**5.2**	
2-Hexanone	1.2	UJ	1.2	U	**1.1**	J	1.2	UJ	1.2	UJ
2-Propanol	**260**		**40**		53		**120**		0.37	U
4-Ethyltoluene	0.75	UJ	0.75	U	**1.3**		7.8	J	**13**	J
4-Methyl-2-pentanone	**4.9**	J	**1**	J	**1**	J	**3.4**	J	**3.2**	J
Acetone	**170**		**29**		**46**		**59**		**49**	
Benzene	17		**0.62**		**4.3**		**8.4**	J	**11**	
Bromodichloromethane	1	UJ	1	U	1	U	1	UJ	3.7	J
Carbon disulfide	**6.8**		**0.98**		**1.3**		0.47	U	0.47	U
Carbon tetrachloride	0.96	UJ	0.96	U	0.96	U	**0.45**	J	**0.51**	J
Chloroform	**210**		**29**		**10**		**1.1**		**88**	
Chloromethane	0.31	U	0.31	U	0.31	U	**0.99**		1.5	
Cis-1,2-Dichloroethene	**2800**	EJ	0.6	U	0.6	U	**1.6**		0.6	U
Cyclohexane	**23**		**4.2**		0.52	U	**14**		**18**	
Dichlorodifluoromethane	0.75	U	**3.8**		**2.3**		**2.4**		**2.3**	
Ethyl acetate	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Ethyl benzene	**8.3**	J	**0.62**	J	**1.8**		**12**	J	**11**	J
Heptane	0.62	UJ	0.62	U	**3.6**		**13**		27	
Hexane	**5.9**		**1**		3.7		**21**		**29**	
Isooctane	**2.5**	J	0.71	U	**0.47**	J	**16**		**11**	
Methylene chloride	**71**		0.53	U	0.53	U	**3.5**		1.2	
Styrene	**1.6**	J	0.65	U	**0.69**		0.65	UJ	0.65	UJ
Tetrachloroethene	**400000**		**4600**		**42000**		**74**	J	**220**	J
Toluene	**19**		**3**		7.7		**41**		**47**	
trans-1,2-Dichloroethene	**420**		0.6	U	0.6	U	0.6	U	0.6	U
Trichloroethene	**4400**	J	**81**		**19**		**5.6**	J	**1.6**	J
Trichlorofluoromethane	0.86	U	**1.4**		**2.1**		**1.1**		**1**	
Xylene, m/p	**32**		**1.8**		3.4		**16**	J	**35**	J
Xylene, o	**8**	J	**0.62**	J	1.5		**13**	J	**10**	J

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:
Highlighted results within the guidance criteria for **Mitigate**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that reasonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Created by: BAS 04/27/2010
Checked by: LJD 04/28/2010

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: IMC Magnetics Site ID: 130043A

Date(s) Sampled: Nov. 14, 2018 Class: _____

Number of Monitoring Wells: 2 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	.18J	☐
PFOA in groundwater	10 ng/L (ppt)	23.5	☑
PFOS in groundwater	10 ng/L (ppt)	26.6	☑
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	7.28 (PFPeA)	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	66.11	☐

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	1,600 ft	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane		
PFAS		

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☑ **Yes** ☐ **No**

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

_____ Project Manager

_____ Section Chief

_____ Bureau Director

_____ Date Signed

ATLAS GRAPHICS
Site 130043B

- Current Class 2 Site
- The RI was completed in 1999. Groundwater and soils at the site were found to be contaminanted with VOCs including PCE, TCE and breakdown products thereof. Total VOCs in groundwater were as high as 4819ppb. Soil contamination was concentrated near a cesspool located near the SW corner of the property

Atlas Graphics Continued
Site 130043B

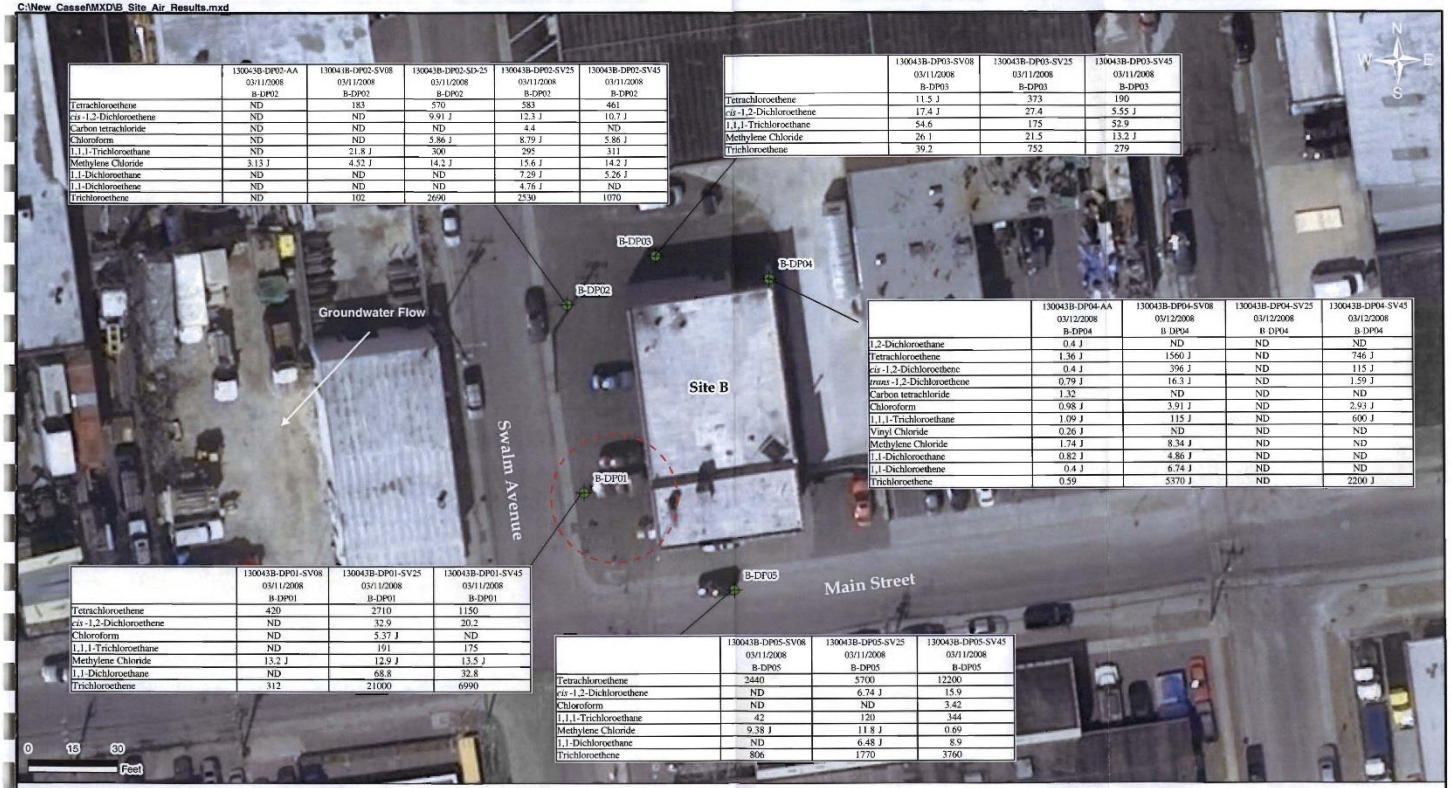
- In 2000 an OU-1 ROD was issued
- The Selected remedy was AS/SVE with semiannual groundwater monitoring and institutional controls.
- The AS/SVE system was installed in 2001. The IC is in place, however, there is no record of GW monitoring until 2008.

Atlas Graphics Continued
Site 130043B

- The Vapor Intrusion Investigation for the Site was completed in 2008. This investigation sampled locations on the site periphery.
- PCE and TCE were found in concentrations as high as 12,200 and 21,000 ug/m3 respectively were found in borings taken from the SW (downgradient) portion of the site.

Atlas Graphics Continued
Site 130043B

- The Indoor Air and Subslab Soil Vapor Intrusion investigation was completed in 2011.
- PCE and TCE were detected in sub-slab samples in concentrations as high as 4,200 ug/m3 and 4,100 ug/m3 respectively



	130043B-DP02-AA 03/11/2008 B-DP02	130043B-DP02-SV08 03/11/2008 B-DP02	130043B-DP02-SD-25 03/11/2008 B-DP02	130043B-DP02-SV25 03/11/2008 B-DP02	130043B-DP02-SV45 03/11/2008 B-DP02
Tetrachloroethene	ND	183	570	583	461
cis -1,2-Dichloroethene	ND	ND	9.91 J	12.3 J	10.7 J
Carbon tetrachloride	ND	ND	ND	4.4	ND
Chloroform	ND	ND	5.86 J	8.79 J	5.86 J
1,1,1-Trichloroethane	ND	21.8 J	300	295	311
Methylene Chloride	3.13 J	4.52 J	14.2 J	15.6 J	14.2 J
1,1-Dichloroethane	ND	ND	ND	7.29 J	5.26 J
1,1-Dichloroethene	ND	ND	ND	4.76 J	ND
Trichloroethene	ND	102	2690	2530	1070

	130043B-DP03-SV08 03/11/2008 B-DP03	130043B-DP03-SV25 03/11/2008 B-DP03	130043B-DP03-SV45 03/11/2008 B-DP03
Tetrachloroethene	11.5 J	373	190
cis -1,2-Dichloroethene	17.4 J	27.4	5.55 J
1,1,1-Trichloroethane	54.6	175	52.9
Methylene Chloride	26.1	21.5	13.2 J
Trichloroethene	39.2	752	279

	130043B-DP04-AA 03/12/2008 B-DP04	130043B-DP04-SV08 03/12/2008 B-DP04	130043B-DP04-SV25 03/12/2008 B-DP04	130043B-DP04-SV45 03/12/2008 B-DP04
1,2-Dichloroethane	0.4 J	ND	ND	ND
Tetrachloroethene	1.36 J	1560 J	ND	746 J
cis -1,2-Dichloroethene	0.4 J	396 J	ND	115 J
trans -1,2-Dichloroethene	0.79 J	16.3 J	ND	1.59 J
Carbon tetrachloride	1.32	ND	ND	ND
Chloroform	0.98 J	3.91 J	ND	2.93 J
1,1,1-Trichloroethane	1.09 J	115 J	ND	600 J
Vinyl Chloride	0.26 J	ND	ND	ND
Methylene Chloride	1.74 J	8.34 J	ND	ND
1,1-Dichloroethane	0.82 J	4.86 J	ND	ND
1,1-Dichloroethene	0.4 J	6.74 J	ND	ND
Trichloroethene	0.59	5370 J	ND	2200 J

	130043B-DP01-SV08 03/11/2008 B-DP01	130043B-DP01-SV25 03/11/2008 B-DP01	130043B-DP01-SV45 03/11/2008 B-DP01
Tetrachloroethene	420	2710	1150
cis -1,2-Dichloroethene	ND	32.9	20.2
Chloroform	ND	5.37 J	ND
1,1,1-Trichloroethane	ND	191	175
Methylene Chloride	13.2 J	12.9 J	13.5 J
1,1-Dichloroethane	ND	68.8	32.8
Trichloroethene	312	21000	6990

	130043B-DP05-SV08 03/11/2008 B-DP05	130043B-DP05-SV25 03/11/2008 B-DP05	130043B-DP05-SV45 03/11/2008 B-DP05
Tetrachloroethene	2440	5700	12200
cis -1,2-Dichloroethene	ND	6.74 J	15.9
Chloroform	ND	ND	3.42
1,1,1-Trichloroethane	42	120	344
Methylene Chloride	9.38 J	11.8 J	0.69
1,1-Dichloroethane	ND	6.48 J	8.9
Trichloroethene	806	1770	3760

Sampling Location

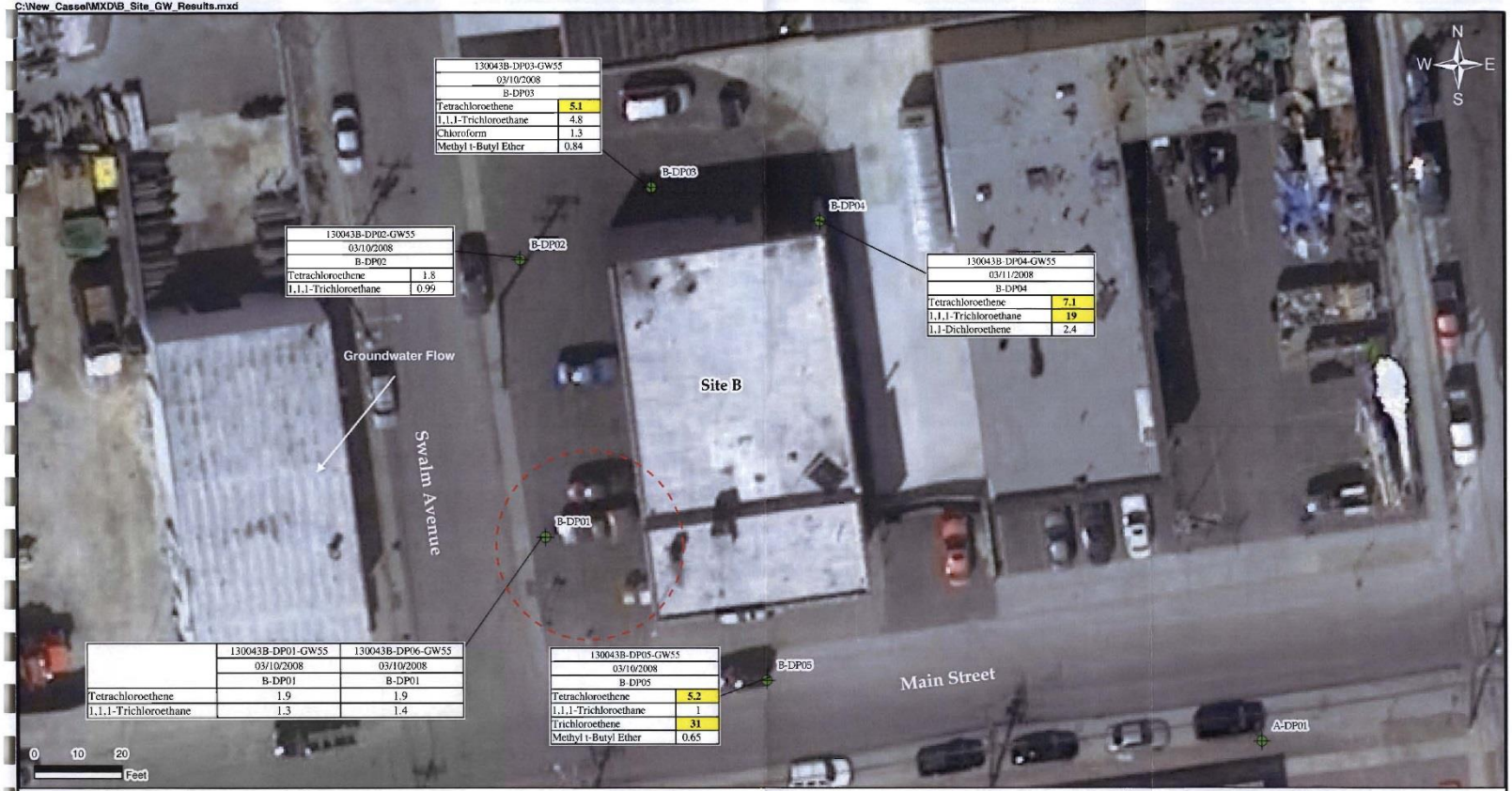
Potential Historical Source Area Based on Previous Documentation

Notes:
All units in µg\m3.
ND=Non-detect

CDM

Figure 4-2
Site B
Soil Vapor Chlorinated VOC Detections
567 Main Street
New Cassel Industrial Area
North Hempstead, New York

NEW YORK STATE OF OPPORTUNITY
Department of Environmental Conservation



Sampling Location

Potential Historical Source Area
Based on Previous Documentation

Notes:
All units in µg\L.
All exceedances highlighted and bolded.

Site Specific Groundwater Delineation Criteria	
Toluene	5
Tetrachloroethene	5
c/a -1,2-Dichloroethene	5
1,1,1-Trichloroethane	5
Methylene chloride	5
1,1-Dichloroethane	5
1,1- Dichloroethene	5
Trichlorofluoromethane	5
Trichloroethene	5
Chloroform	7
Methyl t-Butyl Ether	10
Metylcyclohexane	50
Acetone	50

CDM

Figure 4-9
Site B
Groundwater VOC Exceedances
567 Main Street
New Cassel Industrial Area
North Hempstead, New York

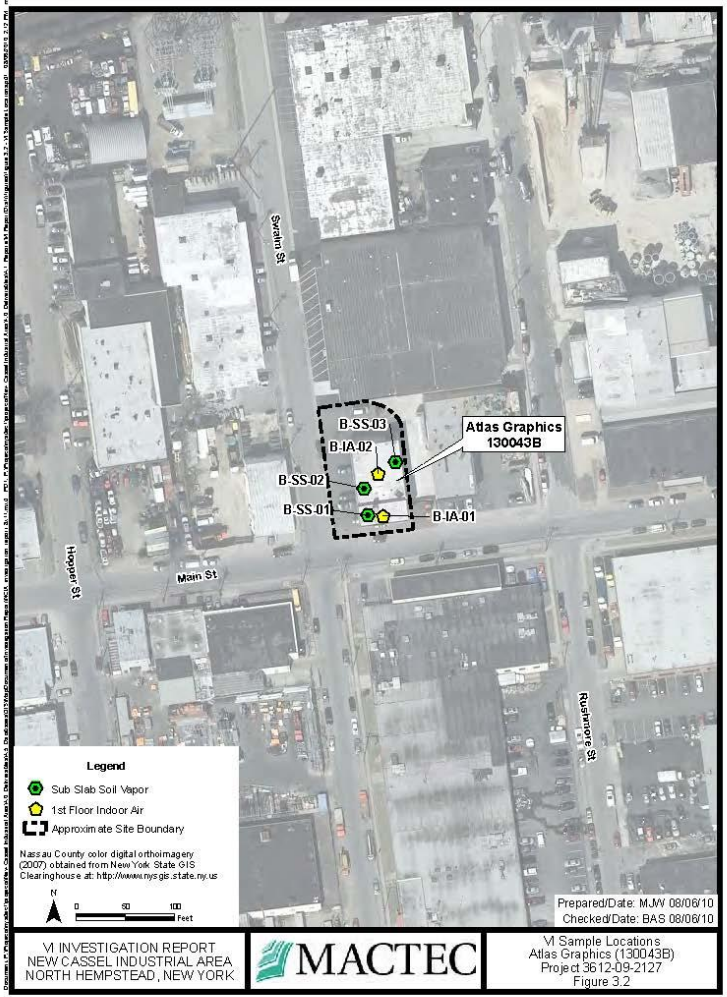


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Table 3.2 - Atlas Graphics (130043B) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Atlas Graphics (130043B)									
Site	Structure B									
Location ID	B-SS-01		B-SS-02		B-SS-03		B-IA-01		B-IA-02	
Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
Sample ID	130043B-SS-01		130043B-SS-02		130043B-SS-03		130043B-IA-01		130043B-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**180**	EJ	**240**		**160**	EJ	0.83	U	0.83	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	**35**		**3.2**		**44**		1.2	U	1.2	U
1,1,2-Trichloroethane	0.83	U	**3.8**		**1.1**		0.83	U	0.83	U
1,1-Dichloroethane	**56**		**3.5**		**22**		0.62	U	0.62	U
1,1-Dichloroethene	0.6	U	**2.5**		0.6	U	0.6	U	0.6	U
1,2,4-Trimethylbenzene	**1.8**	J	**40**	J	**3.1**	J	**0.8**	J	**1.4**	J
1,3,5-Trimethylbenzene	0.75	UJ	**12**	J	**0.75**	J	0.75	UJ	**0.5**	J
1,4-Dioxane	1.1	U	**17**		1.1	U	1.1	U	1.1	U
2-Butanone	**6.6**	J	**7.8**	J	**5.7**	J	**1.5**		0.9	U
2-Hexanone	**1.3**		1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ
2-Propanol	**71**	EJ	**230**	J	**60**	EJ	**38**		**110**	
4-Ethyltoluene	**0.55**	J	**9.7**	J	**1.3**	J	**0.5**	J	**1**	J
4-Methyl-2-pentanone	**2.1**		**3.2**	J	1.2	UJ	1.2	UJ	1.2	UJ
Acetone	**110**	EJ	**610**		**82**	EJ	**180**		**360**	
Benzene	**1.5**		**5**		**1.8**		**1.3**		**2.1**	
Carbon disulfide	**10**		**10**		**3.2**		0.47	U	0.47	U
Chloroform	**4.6**		**31**		**17**		0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	**0.73**		**0.59**	
Cis-1,2-Dichloroethene	**19**		**26**		**8.5**		0.6	U	0.6	U
Cyclohexane	0.52	U	0.52	U	0.52	U	0.52	U	**3.3**	
Dichlorodifluoromethane	**2.3**		**2.6**		**2.8**		**2**		**2**	
Ethyl acetate	0.92	U	0.92	U	0.92	U	0.92	U	**1.4**	
Ethyl benzene	**22**		**270**		**150**	EJ	**1300**	EJ	**2300**	EJ
Heptane	0.62	U	0.62	U	0.62	U	**1.2**		**2.5**	
Hexane	0.54	U	0.54	U	0.54	U	**2.1**		**4.9**	
Isooctane	0.71	U	0.71	U	0.71	U	**1.1**		**2.2**	
Methylene chloride	0.53	U	0.53	U	0.53	U	**0.42**	J	**0.42**	J
Styrene	**2.6**		0.65	UJ	0.65	UJ	0.65	UJ	0.65	UJ
Tetrachloroethene	**4200**		**1400**		**1700**	J	**1.9**	J	**1.6**	J
Toluene	**17**		**76**		**46**		**600**		**1300**	EJ
trans-1,2-Dichloroethene	0.6	U	**5.1**		0.6	U	0.6	U	0.6	U
Trichloroethene	**16000**		**31000**		**4100**		**27**		**28**	
Trichlorofluoromethane	**3.5**		**53**		**42**		**0.97**		**0.97**	
Xylene, m/p	**92**		**1200**		**740**	EJ	**4600**	EJ	**6900**	EJ
Xylene, o	**10**		**150**		**80**		**430**		**900**	J

Notes:
NYSDEC – New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:

Highlighted results within the guidance criteria for **Mitigate**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", or no further action to be taken (New York State Department of Health, 2006)

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: Atlas Site ID: 130043B

Date(s) Sampled: November 14, 2018 Class: 2

Number of Monitoring Wells: 1 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	0.039	☐
PFOA in groundwater	10 ng/L (ppt)	9.83	☐
PFOS in groundwater	10 ng/L (ppt)	5.59	☐
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	8.89	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	42.68	☐

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	2,150	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	no	
PFAS	no	

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☑ **Yes** ☑ **No**

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

Project Manager Section Chief

Bureau Director Date Signed

Tishcon Corporation @ 125 State Street Site 130043C

- Currently a Class 4 site.
- The RI found chloroform as high as 160ppm in an on-site storm drain. The principal groundwater contaminants were PCE and TCE, found in concentrations as high as 66 and 61 ppb in downgradient groundwater.

Tishcon @ 125 State St. Continued Site 130043C

- 1998 ROD. The selected remedy was excavation of the source area located near a storm drain located on the south (downgradient) side of the on-site building, groundwater monitoring, and ICs.
- The excavation was completed in 1999. Some groundwater monitoring was done in 2008, and an environmental easement is expected to be in place, along with an SMP sometime in 2020.

Tishcon @ 125 State St. Continued Site 130043C

- The 2008 SVI investigation found concentrations of PCE as high as 13,600 ug/m3 and TCA as high as 2,730 ug/m3 in soil vapor in the SW area of the site.
- The 2011 indoor air and sub-slab SVI investigation found concentrations of PCE as high as 9,800 ug/m3 and TCE as high as 3,300 ug/m3 in subslab samples
- Concentrations of PCE as high as 2.0ug/m3 and TCE as high as 0.55 ug/m3 were found in indoor air samples.

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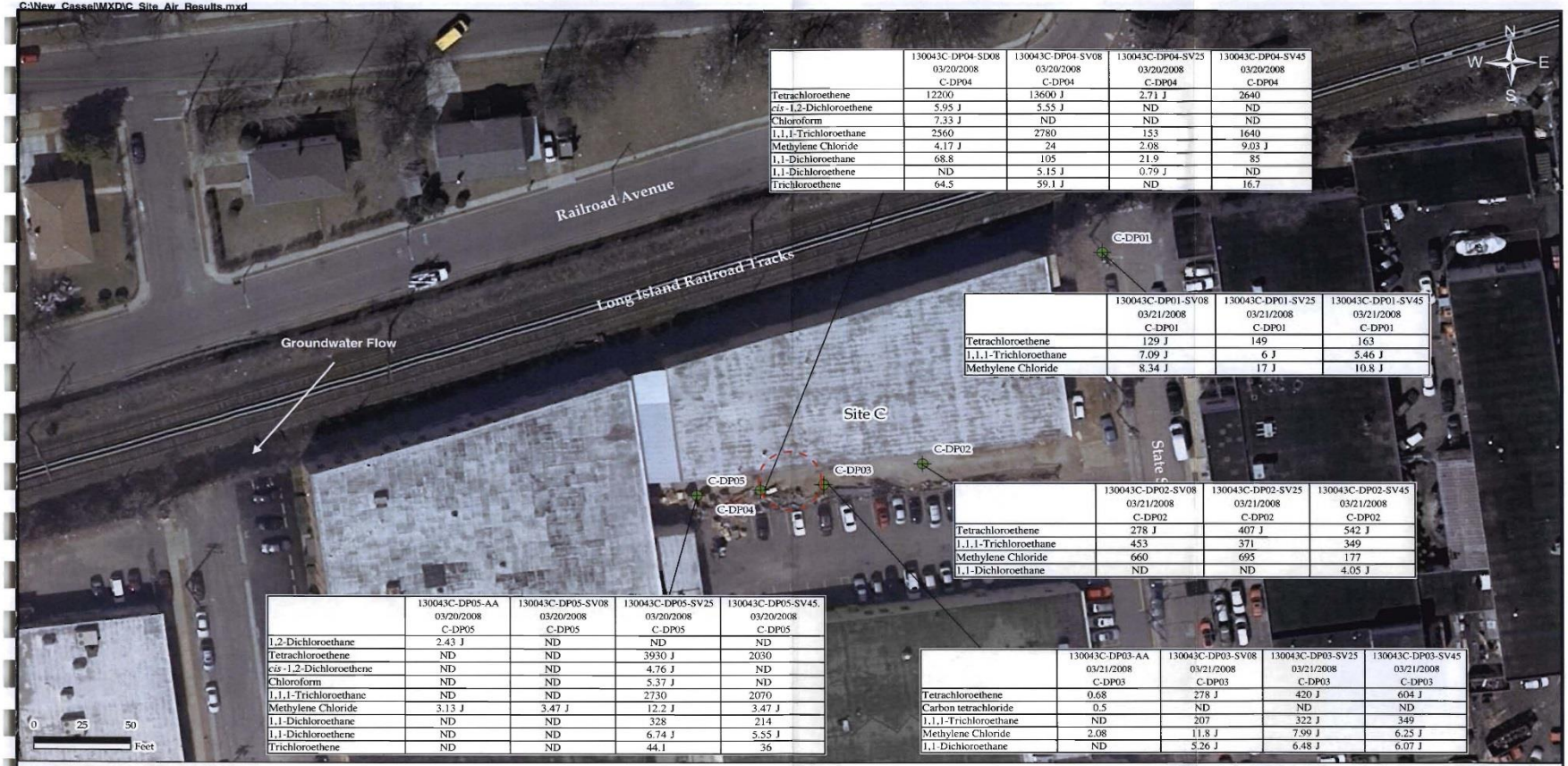


	130043C-DP04-SD08 03/20/2008 C-DP04	130043C-DP04-SV08 03/20/2008 C-DP04	130043C-DP04-SV25 03/20/2008 C-DP04	130043C-DP04-SV45 03/20/2008 C-DP04
Tetrachloroethene	12200	13600 J	2.71 J	2640
cis-1,2-Dichloroethene	5.95 J	5.55 J	ND	ND
Chloroform	7.33 J	ND	ND	ND
1,1,1-Trichloroethane	2560	2780	153	1640
Methylene Chloride	4.17 J	24	2.08	9.03 J
1,1-Dichloroethane	68.8	105	21.9	85
1,1-Dichloroethene	ND	5.15 J	0.79 J	ND
Trichloroethene	64.5	59.1 J	ND	16.7

	130043C-DP01-SV08 03/21/2008 C-DP01	130043C-DP01-SV25 03/21/2008 C-DP01	130043C-DP01-SV45 03/21/2008 C-DP01
Tetrachloroethene	129 J	149	163
1,1,1-Trichloroethane	7.09 J	6 J	5.46 J
Methylene Chloride	8.34 J	17 J	10.8 J

	130043C-DP02-SV08 03/21/2008 C-DP02	130043C-DP02-SV25 03/21/2008 C-DP02	130043C-DP02-SV45 03/21/2008 C-DP02
Tetrachloroethene	278 J	407 J	542 J
1,1,1-Trichloroethane	453	371	349
Methylene Chloride	660	695	177
1,1-Dichloroethane	ND	ND	4.05 J

	130043C-DP05-AA 03/20/2008 C-DP05	130043C-DP05-SV08 03/20/2008 C-DP05	130043C-DP05-SV25 03/20/2008 C-DP05	130043C-DP05-SV45. 03/20/2008 C-DP05
1,2-Dichloroethane	2.43 J	ND	ND	ND
Tetrachloroethene	ND	ND	3930 J	2030
cis-1,2-Dichloroethene	ND	ND	4.76 J	ND
Chloroform	ND	ND	5.37 J	ND
1,1,1-Trichloroethane	ND	ND	2730	2070
Methylene Chloride	3.13 J	3.47 J	12.2 J	3.47 J
1,1-Dichloroethane	ND	ND	328	214
1,1-Dichloroethene	ND	ND	6.74 J	5.55 J
Trichloroethene	ND	ND	44.1	36

	130043C-DP03-AA 03/21/2008 C-DP03	130043C-DP03-SV08 03/21/2008 C-DP03	130043C-DP03-SV25 03/21/2008 C-DP03	130043C-DP03-SV45 03/21/2008 C-DP03
Tetrachloroethene	0.68	278 J	420 J	604 J
Carbon tetrachloride	0.5	ND	ND	ND
1,1,1-Trichloroethane	ND	207	322 J	349
Methylene Chloride	2.08	11.8 J	7.99 J	6.25 J
1,1-Dichloroethane	ND	5.26 J	6.48 J	6.07 J

Sampling Location

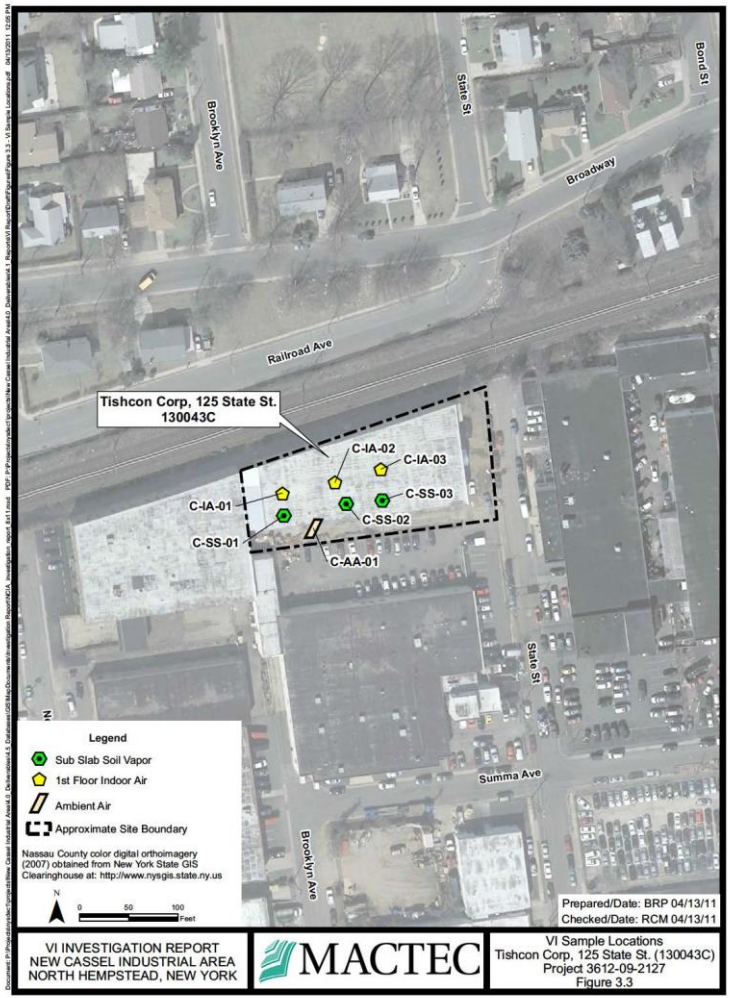
Potential Historical Source Area
Based on Previous Documentation

Notes:
All units in µg\m3.
ND=Non-detect

CDM

Figure 4-3
Site C
Soil Vapor Chlorinated VOC Detections
125 State Street
New Cassel Industrial Area
North Hempstead, New York

Figure 4-10
Site C
Groundwater VOC Exceedances
125 State Street
New Cassel Industrial Area
North Hempstead, New York



NEW YORK STATE OF OPPORTUNITY
Department of Environmental Conservation

Table 3.3 Tishcon Corp. (130043C) - 2011 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Tishcon Corp. (130043C)													
Site	Structure C													
Location ID	C-SS-01		C-SS-01		C-SS-02		C-SS-03		C-IA-01		C-IA-02		C-IA-03	
Sample Date	2/1/2011		2/1/2011		2/1/2011		2/1/2011		2/1/2011		2/1/2011		2/1/2011	
Sample ID	130043C-SS-01		130043C-SS-01 D		130043C-SS-02		130043C-SS-03		130043C-IA-01		130043C-IA-02		130043C-IA-03	
QC Code	FS		FD		FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Tetrachloroethene	**9,800**	J	**7,500**	J	**860**		**4,600**		**2**		**2**		**2**	
Trichloroethene	**17**		**20**		**3.3**		**22**		**0.55**		**0.27**		**0.38**	
1,1,1-Trichloroethane	**3,300**	J	**2,300**		**440**		**850**		**1**	J	**1**	J	**1**	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**1**	J	**1**	J	0.86	J	1.2	U	1.2	U	1.2	U	1.2	U
1,1-Dichloroethane	**38**		**41**		**18**		**18**		0.62	U	0.62	U	0.62	U
1,1-Dichloroethene	**2.2**		**2.4**		**0.6**		0.6	U	0.6	U	0.6	U	0.6	U
1,2,4-Trimethylbenzene	**1.3**		**1**		**1.4**		**0.65**	J	**1.7**		**1.3**		**1.3**	
1,2-Dichloroethane	0.62	U	0.62	U	**1.5**		0.62	U	0.62	U	0.62	U	0.62	U
1,3,5-Trimethylbenzene	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	**0.65**	J
1,4-Dichlorobenzene	0.92	U	0.92	U	**0.86**	J	0.92	U	0.92	U	0.92	U	0.92	U
1,4-Dioxane	**34**	J	**37**	J	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ
2-Butanone	**2.8**		**2.8**		**11**		**5.2**		**17**		**31**		**47**	
2-Hexanone	1.2	UJ	1.2	UJ	**0.46**	J	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ
2-Propanol	**44**		**52**		**130**		**40**		**2.7**		**4.5**		**3.8**	
4-Ethyltoluene	0.75	U	0.75	U	0.75	U	**0.55**	J	0.75	U	0.75	U	**0.8**	
Acetone	**29**		**23**		**42**		59		**22**		**51**		**63**	
Benzene	**0.62**		**0.45**	J	**1.1**		**1**		**1.2**		**1.1**		**1.2**	
Carbon disulfide	**2.2**		**2.2**		**2.1**		**1.9**		0.47	U	0.47	U	0.47	U
Carbon tetrachloride	0.96	U	0.96	U	0.96	U	0.96	U	**0.64**		**0.64**		**0.51**	
Chloroform	**2.2**		**2**		**1.1**		**2.1**		0.74	U	0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.94	
Cis-1,2-Dichloroethene	0.6	U	0.6	U	0.6	U	**0.48**	J	0.6	U	0.6	U	0.6	U
Cyclohexane	**0.49**	J	**0.49**	J	**0.94**		0.52	U	**0.56**		0.52	U	0.52	U
Dichlorodifluoromethane	**3.7**		**3.7**		**2.9**		0.75	U	0.75	U	**2.8**		**2.8**	
Ethyl benzene	**0.53**	J	0.66	U	**1.4**		**0.62**	J	0.71		**0.62**	J	**0.62**	J
Heptane	**1**		**1**		**2.9**		**1.8**		**0.92**		**0.54**	J	**0.79**	
Hexane	0.54	U	0.54	U	**3.8**		**1**		**3.5**		7.5		**8.6**	
Methylene chloride	**1.3**		**1.2**		**1.8**		0.56		**1.3**		**5.5**		**4.4**	
Styrene	**0.48**	J	**0.52**	J	**1.1**		**0.91**		**0.43**	J	**0.69**		**0.56**	J
Tetrahydrofuran	0.45	UJ	0.45	UJ	**2.4**	J	0.45	UJ	**3.1**	J	**16**		**15**	
Toluene	**4.5**		**3.9**		**9.2**		6		**3.4**		**3.7**		**3.4**	
Trichlorofluoromethane	**3.7**		**3.7**		2.9		**2.8**		0.86	U	**2.6**		**2.5**	
Xylene, m/p	**1.4**		**1.3**		**3.4**		**1.9**		**1.4**		**1.4**		**1.3**	
Xylene, o	**0.44**	J	0.66	U	**1.1**		**0.44**	J	0.66		**0.57**	J	**0.62**	J

Notes:

NYSDEC = New York State Department of Environmental Conservation

Results presented in microgram per cubic meter ($\mu g/M^3$)

Samples analyzed for VOCs by USEPA Method TO-15.

VOC = volatile organic compound

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the guidance criteria for **Mitigate**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that reasonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Created By: RCM 4/14/2011
Checked By: BAS 04/16/2011

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Former Tishcon
Site 130043F

- Class N site.
- The March 1996 RI did not identify an on-site source area
- Groundwater contamination was attributed to upgradient or cross-gradient sources.
- The selected remedy in the 1998 ROD was no action.

Former Tishcon Continued Site 130043F

- The 2008 SVI investigation found PCE as high as 1,080 ug/m3 in a soil vapor sample in the NE corner of the site. In the same location TCE was found at 145 ug/m3. Note that this is the upgradient corner of the site.
- The 2011 sub-slab and indoor air SVI investigation found a maximum of 290 ug/m3 of PCE in sub-slab sampling.
- Maximum VOC level for indoor air was 3.2 ug/m3 of TCE

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	130043F-DP03-SD08. 03/07/2008 F-DP03	130043F-DP03-SV08. 03/07/2008 F-DP03	130043F-DP03-SV25 03/07/2008 F-DP03	130043F-DP03-SV45 03/07/2008 F-DP03
Tetrachloroethene	244	231	678	949
Chloroform	ND	ND	0.98 J	ND
1,1,1-Trichloroethane	9.28 J	8.18 J	20.7	24 J
Methylene Chloride	4.52 J	6.25 J	1.39 J	5.21 J
Trichloroethene	ND	ND	29	37.1

	130043F-DP04-AA 03/07/2008 F-DP04	130043F-DP04-SV08. 03/07/2008 F-DP04	130043F-DP04-SV25 03/07/2008 F-DP04	130043F-DP04-SV45 03/07/2008 F-DP04
Tetrachloroethene	1.36 J	122	746	1080
cis -1,2-Dichloroethene	0.79 J	ND	6.74 J	ND
1,1,1-Trichloroethane	5.46	ND	24.6 J	22.9 J
Vinyl Chloride	1.79	ND	13.3	ND
Methylene Chloride	2.78 J	3.47 J	4.52 J	ND
1,1-Dichloroethane	2.83	ND	23.5	ND
Trichloroethene	0.86	ND	96.7	145

	130043F-DP02-AA 03/04/2008 F-DP02	130043F-DP02-SV08 03/04/2008 F-DP02	130043F-DP02-SV25 03/04/2008 F-DP02	130043F-DP02-SV45 03/04/2008 F-DP02
Tetrachloroethene	3.39	108	210 J	325 J
Carbon tetrachloride	0.44	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	25.6 J	28.4 J
Methylene Chloride	6.95	3.47 J	4.17 J	ND
Trichloroethene	ND	5.37	8.6 J	16.7 J

	130043F-DP05-SV08 03/07/2008 F-DP05	130043F-DP05-SV25 03/07/2008 F-DP05	130043F-DP05-SV45 03/07/2008 F-DP05
Tetrachloroethene	163	407	549
1,1,1-Trichloroethane	ND	12.5 J	28.4
Methylene Chloride	ND	ND	4.52 J
1,1-Dichloroethane	ND	ND	6.88 J
Trichloroethene	ND	17.2	33.3

	130043F-DP01-SV08 03/04/2008 F-DP01	130043F-DP01-SV25 03/04/2008 F-DP01	130043F-DP01-SV45 03/04/2008 F-DP01
Tetrachloroethene	2.03 J	210 J	231 J
Carbon tetrachloride	0.5 J	ND	ND
1,1,1-Trichloroethane	ND	28.4 J	27.8 J
Methylene Chloride	5.91 J	3.82 J	19.8 J
Trichloroethene	0.54 J	10.7 J	14 J

Sampling Location

*Previous investigations failed to locate source areas (e.g, cesspools, drainage structures)

Notes:
All units in µg\m3.
ND=Non-detect

CDM

Figure 4-4
Site F
Soil Vapor Chlorinated VOC Detections
68 Kinkel Street
New Cassel Industrial Area
North Hempstead, New York

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Sampling Location

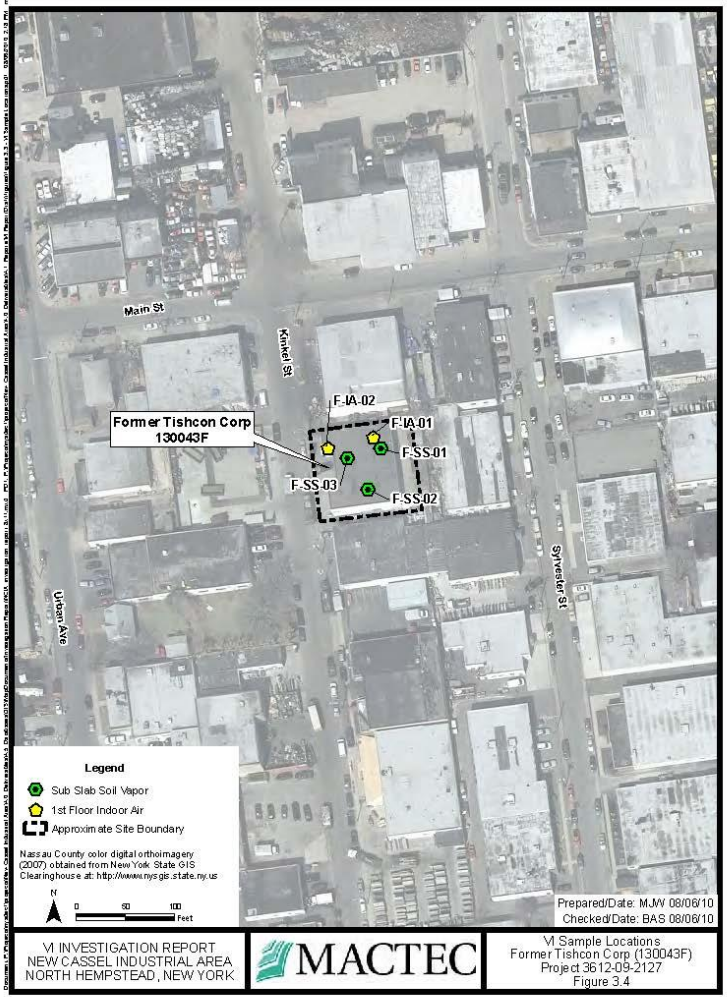
*Previous investigations failed to locate source areas (e.g. cesspools, drainage structures)

Notes:
All units in µg\L.
All exceedances highlighted and bolded.
ND=Non-detect

Site Specific Groundwater Delineation Criteria	
Toluene	5
Tetrachloroethene	5
cis-1,2-Dichloroethene	5
1,1,1-Trichloroethane	5
Methylene chloride	5
1,1-Dichloroethane	5
1,1- Dichloroethene	5
Trichlorofluoromethane	5
Trichloroethene	5
Chloroform	7
Methyl t-Butyl Ether	10
Merylcyclohexane	50
Acetone	50

CDM

Figure 4-11
Site F
Groundwater VOC Exceedances
68 Kinkel Street
New Cassel Industrial Area
North Hempstead, New York



NEW YORK STATE OF OPPORTUNITY
Department of Environmental Conservation

Table 3.4 - Former Tishcon Corp. (130043F) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Former Tishcon Corp (130043F)									
Site	Structure F									
Location ID	F-SS-01		F-SS-02		F-SS-03		F-IA-01		F-IA-02	
Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
Sample ID	130043F-SS-01		130043F-SS-02		130043F-SS-03		130043F-IA-01		130043F-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**60**		**9.9**		**110**		0.83	U	0.83	UJ
1,2,4-Trimethylbenzene	1	UJ	7.4	U	**1.2**		7.4	U	**2.7**	J
1,3,5-Trimethylbenzene	0.75	UJ	**2.7**	U	0.75	UJ	**1.6**	J	**1.2**	J
1,4-Dioxane	**0.4**	J	1.1	U	1.1	U	1.1	U	1.1	UJ
2-Butanone	**4.7**		**12**		**1.7**		**8.3**		0.9	U
2-Hexanone	1.2	U	**1.4**	J	1.2	U	1.2	UJ	1.2	UJ
2-Propanol	**66**	EJ	**59**		**25**		**5.5**		0.37	U
4-Ethyltoluene	0.75	U	**1.8**	J	0.75	U	**3.4**	J	**1.7**	J
4-Methyl-2-pentanone	**0.96**	J	**3.1**	J	**0.75**	J	**2**	J	**1.6**	J
Acetone	**63**	EJ	**300**		**43**		**24**	EJ	**24**	EJ
Benzene	**0.78**		**3.2**		**0.42**	J	**1.4**		**1.6**	J
Carbon disulfide	**1.2**		**5.6**		**0.57**		0.47	U	**0.6**	J
Carbon tetrachloride	0.96	U	0.96	U	0.96	U	**0.51**	J	**0.45**	J
Chloroform	0.74	U	**0.94**		0.74	U	0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	**0.86**		**0.76**	J
Cyclohexane	0.52	U	**1.4**		0.52	U	0.52	U	**36**	J
Dichlorodifluoromethane	**5.7**		**2.4**		0.75	U	**2.3**		**2.2**	J
Ethyl acetate	0.92	U	0.92	U	0.92	U	0.92	U	**26**	EJ
Ethyl benzene	**1.7**		**2.5**	J	**1.1**		**7.3**	J	**3.8**	J
Heptane	0.62	U	**8.3**		**0.46**	J	**1.7**		**3.1**	J
Hexane	0.54	U	**7.5**		0.54	U	0.54	U	**16**	EJ
Isooctane	0.71	U	0.71	U	0.71	U	0.71	U	**0.57**	J
Methylene chloride	0.53	U	0.53	U	0.53	U	**0.42**	J	**1.6**	J
Styrene	**0.61**	J	0.65	UJ	0.65	U	0.65	UJ	**1.3**	J
Tetrachloroethene	**280**		**110**	J	**290**		**1.7**	J	**1.9**	J
Toluene	**2.8**		**12**		**1.4**		**7.2**	J	**71**	EJ
Trichloroethene	**0.6**	J	**4.2**		**0.82**		**3.2**		**1.8**	J
Trichlorofluoromethane	**5.7**		**2.3**		**5.5**		**1.2**		1	J
Xylene, m/p	**5.4**		**14**	J	**3**		**5.5**	J	**9.7**	J
Xylene, o	**0.88**		**3.8**	J	**0.53**	J	**2.6**	J	**2.7**	J

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS – Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:

Highlighted results within the criteria for **Monitor**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that reasonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Created by: BAS 04/27/2010
Checked by: LJB 04/28/2010

Former Laka Industries Inc.
Site 130043K

- Class 2 Site.
- The 1998 RI found extensive metals and VOC contamination in a former cesspool located on the southern border of the site. TCE was found in soil samples in concentrations as high as 3.5 ppm. Arsenic, Mercury and Nickel were found above TAGM levels.
- Samples from monitoring wells located downgradient of the site had total VOC concentrations as high as 340 ppb.

Former Laka Industries Inc. Continued Site 130043K

- The selected remedy in the 2000 ROD (on-site soils and groundwater) was excavation of the source area to 25 feet bgs with institutional controls and semi-annual groundwater monitoring.
- The remedy was implemented in 2003. There are no institutional controls or deed restrictions on file.

Former Laka Industries Inc. Continued Site 130043K

- The 2008 SVI investigation found PCE as high as 746 ug/m3 and TCE as high as 537 ug/m3.
- The 2011 sub-slab and indoor air SVI investigation found TCE as high as 10,000 ug/m3 and TCA as high as 2,100 ug/m3 in sub-slab soil vapor
- PCE was as high as 5.4 ug/m3 and TCE was as high as .87 ug/m3 in indoor air.

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	130043K-DP01-SD08 03/04/2008 K-DP01	130043K-DP01-SV08 03/04/2008 K-DP01	130043K-DP01-SV25 03/04/2008 K-DP01	130043K-DP01-SV45 03/04/2008 K-DP01
Tetrachloroethene	88.2 J	74.6 J	170 J	292 J
cis -1,2-Dichloroethene	ND	ND	ND	6.34 J
1,1,1-Trichloroethane	13.6 J	13.6 J	37.6 J	60 J
Methylene Chloride	4.17 J	4.86 J	5.21 J	4.17 J
1,1-Dichloroethane	ND	ND	ND	15.8 J
Trichloroethene	5.91 J	5.91 J	22 J	50.5 J

	130043K-DP02-SV08 03/05/2008 K-DP02	130043K-DP02-SV25 03/05/2008 K-DP02	130043K-DP02-SV45 03/05/2008 K-DP02
Tetrachloroethene	21	264	387
cis -1,2-Dichloroethene	ND	6.34 J	15.1 J
1,1,1-Trichloroethane	8.18	76.4	54.6
1,1-Dichloroethane	1.62 J	ND	21.9 J
Trichloroethene	6.99	86 J	113

	130043K-DP05-AA 03/06/2008 K-DP05	130043K-DP05-SV08 03/06/2008 K-DP05	130043K-DP05-SV25 03/06/2008 K-DP05	130043K-DP05-SV45 03/06/2008 K-DP05
Tetrachloroethene	ND	74.6 J	644	746
cis -1,2-Dichloroethene	ND	ND	9.91 J	25.8
Carbon tetrachloride	0.57	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	39.8	147
Vinyl Chloride	0.77 J	ND	ND	ND
Methylene Chloride	1.39 J	18.1 J	ND	6.95 J
1,1-Dichloroethane	0.4 J	ND	37.2	312
Trichloroethene	ND	40.8 J	403	258

	130043K-DP03-AA 03/05/2008 K-DP03	130043K-DP03-SV08 03/05/2008 K-DP03	130043K-DP03-SV25 03/05/2008 K-DP03	130043K-DP03-SV45 03/05/2008 K-DP03
Tetrachloroethene	0.68 J	74.6	217	359
cis -1,2-Dichloroethene	ND	ND	15.1 J	18.2 J
Carbon tetrachloride	0.5	ND	ND	ND
Chloroform	ND	ND	ND	6.35 J
1,1,1-Trichloroethane	ND	7.09 J	40.4 J	52.4
Methylene Chloride	1.04 J	4.86 J	ND	ND
Trichloroethene	ND	118 J	537	167

	130043K-DP04-SV08 03/06/2008 K-DP04	130043K-DP04-SV25 03/06/2008 K-DP04	130043K-DP04-SV45 03/06/2008 K-DP04
Tetrachloroethene	102	244	373 J
cis -1,2-Dichloroethene	ND	ND	39.3
Chloroform	ND	ND	12.2 J
1,1,1-Trichloroethane	18.6 J	39.3	104
Methylene Chloride	3.82 J	5.56 J	ND
1,1-Dichloroethane	ND	8.09 J	56.7
Trichloroethene	31.2	80.6	231 J

Sampling Location

*Previous investigations failed to locate source areas (e.g. cesspools, drainage structures)

Notes:
All units in µg\m3.
ND=Non-detect

CDM

Figure 4-5
Site K
Soil Vapor Chlorinated VOC Detections
62 Kinkel Street
New Cassel Industrial Area
North Hempstead, New York

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	130043K-DP01-GW55	130043K-DP06-GW55
	03/03/2008	03/03/2008
	K-DP01	K-DP01
Toluene	ND	0.54
Tetrachloroethene	1.3	0.96
Trichloroethene	0.71	0.74
Chloroform	1.4	1.3
Methyl t-Butyl Ether	2.7	2.8

130043K-DP02-GW55	
03/04/2008	
K-DP02	
Toluene	0.57 J
Tetrachloroethene	1.4 J
Trichloroethene	1.2 J
Chloroform	1 J
Methyl t-Butyl Ether	8.6 J

130043K-DP03-GW55	
03/04/2008	
K-DP03	
Tetrachloroethene	1.8 J
cis-1,2-Dichloroethene	1.6 J
1,1-Dichloroethane	0.5 J
Trichloroethene	2 J
Chloroform	0.93 J
Methyl t-Butyl Ether	6.8 J

130043K-DP04-GW55	
03/05/2008	
K-DP04	
Tetrachloroethene	2.9
1,1-Dichloroethane	0.94
Trichloroethene	0.8
Chloroform	0.57
Metylcyclohexane	0.88

130043K-DP05-GW55	
03/05/2008	
K-DP05	
Tetrachloroethene	2.6
cis-1,2-Dichloroethene	1.2
1,1,1-Trichloroethane	0.81
1,1-Dichloroethane	4.6
Trichloroethene	0.82

Sampling Location

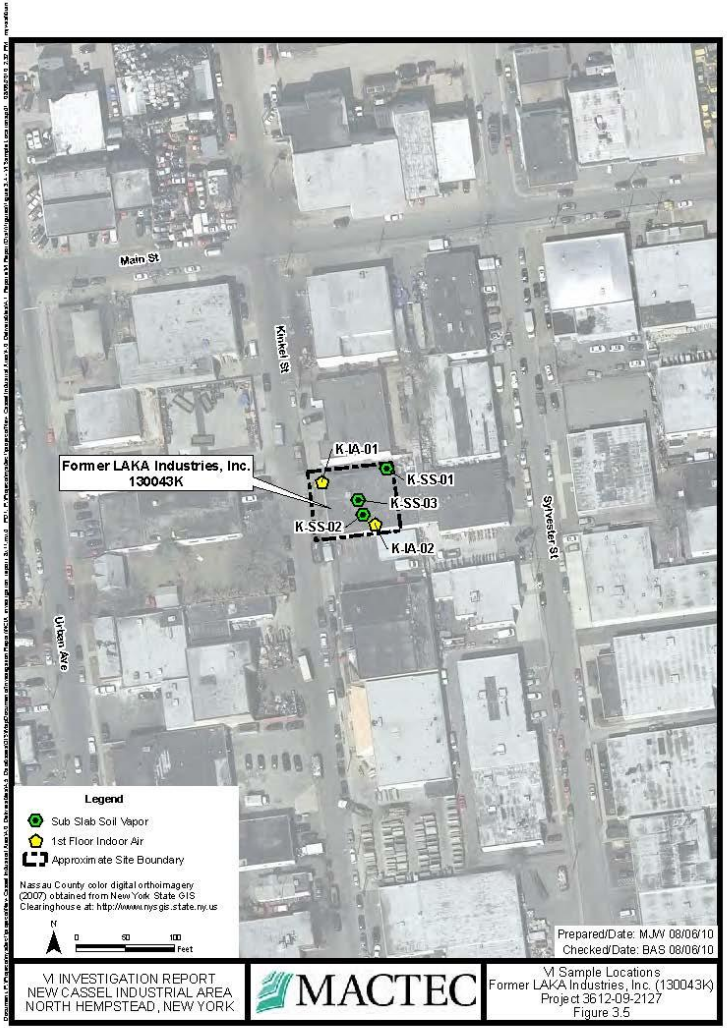
*Previous investigations failed to locate source areas (e.g. cesspools, drainage structures)

Notes:
All units in µg\L.
All exceedances highlighted and bolded.
ND=Non-detect

Site Specific Groundwater Delineation Criteria	
Toluene	5
Tetrachloroethene	5
cis-1,2-Dichloroethene	5
1,1,1-Trichloroethane	5
Methylene chloride	5
1,1-Dichloroethane	5
1,1- Dichloroethene	5
Trichlorofluoromethane	5
Trichloroethene	5
Chloroform	7
Methyl t-Butyl Ether	10
Metylcyclohexane	50
Acetone	50

CDM

Figure 4-12
Site K
Groundwater VOC Exceedances
62 Kinkel Street
New Cassel Industrial Area
North Hempstead, New York



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Department of Environmental Conservation

Table 3.5 - Former LAKA Industries, Inc. (130043K) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Former LAKA Industries, Inc. (130043K)									
Site	Structure K									
Location ID	K-SS-01		K-SS-02		K-SS-03		K-IA-01		K-IA-02	
Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
Sample ID	130043K-SS-01		130043K-SS-02		130043K-SS-03		130043K-IA-01		130043K-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**77**		**36**		**2100**		0.83	U	0.83	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	U	1.2	U	**5**		1.2	U	1.2	U
1,1-Dichloroethane	**1.9**		**1.2**		**35**		0.62	U	0.62	U
1,2,4-Trimethylbenzene	**2.7**	J	0.75	UJ	**54**	J	**1.3**		**1.8**	
1,3,5-Trimethylbenzene	**0.8**	J	0.75	UJ	**21**	J	0.75	U	**0.55**	J
1,4-Dioxane	1.1	U	1.1	U	**6**	J	1.1	U	1.1	U
2-Butanone	**6.6**	J	**2**		**57**		**4.1**		**2.3**	
2-Hexanone	1.2	UJ	1.2	U	**26**	J	1.2	U	1.2	U
2-Propanol	**32**		**39**		0.37	UJ	**58**	EJ	**51**	EJ
4-Ethyltoluene	**0.95**	J	0.75	U	**15**	J	0.75	U	**0.8**	
4-Methyl-2-pentanone	**1.2**	J	1.2	U	**12**	J	1.2	U	1.2	U
Acetone	**96**		**32**		**200**	EJ	**29**	EJ	**74**	EJ
Benzene	**4.3**		**0.58**		**67**		**1.2**		**1.8**	
Carbon disulfide	**14**		**1.5**		**11**		0.47	U	0.47	U
Carbon tetrachloride	**0.7**	J	0.96	U	0.96	UJ	**0.51**	J	**0.51**	J
Chloroform	**20**		**8.9**		**23**		0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	**0.86**		**0.8**	
Cis-1,2-Dichloroethene	**1.3**		**2.8**		**120**		0.6	U	0.6	U
Cyclohexane	0.52	U	0.52	U	**16**		0.52	U	0.52	U
Dichlorodifluoromethane	0.75	U	**9.4**		0.75	U	**2.4**		**2.3**	
Ethyl benzene	**58**		**4.3**		**19**	J	**1.1**		**2.1**	
Heptane	**4**		0.62	U	**66**		**1.9**		**1.2**	
Hexane	**4.1**		0.54	U	**56**		0.54	U	0.54	U
Isooctane	0.71	U	0.71	U	0.71	UJ	0.71	U	**1.1**	
Methylene chloride	0.53	U	0.53	U	0.53	U	**0.46**	J	**0.39**	J
Styrene	**3.6**	J	0.65	U	0.65	UJ	**0.48**	J	**1.4**	
Tetrachloroethene	**280**		**650**		**1500**		**1.7**		**5.4**	
Toluene	**46**		**5.1**		**36**	J	**12**	EJ	**18**	EJ
Trichloroethene	**930**		**490**		**10000**		**0.87**		**0.6**	
Trichlorofluoromethane	**4.4**		**37**		**10**		**1.1**		**1.7**	
Xylene, m/p	**220**		**15**		**50**	J	**3.3**		**7.1**	
Xylene, o	**17**		**1.6**		**17**	J	**1.1**		**2.2**	

Notes:
NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection

Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the guidance criteria for **Mitigate,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that reasonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: Former Laka Site ID: 130043K

Date(s) Sampled: November 14, 2018 Class: 2

Number of Monitoring Wells: 1 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening Level	Max. Concentration Detected	Check Box if Screening Level Exceeded
1,4-dioxane in groundwater	0.35 ug/L (ppb)	0.091	☐
PFOA + PFOS in groundwater	70 ng/L (ppt)	29.2	☐
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	7.44	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	73.73	☐

Stop here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water Supply Type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	3,100	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	no	
PFAS	no	

If an apparent on-site source is suspected, evaluate the potential for off-site contaminant migration and incorporate into ongoing remedial program if possible.

Further action required at this time? ☐ **Yes** ☑ **No**

If yes, summarize site-specific next steps in the box at the bottom of page 2 of this form.

Project Manager Section Chief

Bureau Director Date Signed

EZ-EM
Site 130043N

- Class 4 Site, listed as such in 1997 based on the 1997 NCIA multisite RI. The primary on-site contaminants were PCE and TCA. Records indicate that in 1985 contaminated sludge had been removed from a degreasing operation at the SW corner of the site. No requirements for future remediation were specified. Groundwater monitoring , however, was required.
- No ROD. Site management to be discontinued with completion of SVI legacy project.

EZ-EM Continued
Site 130043N

- The 2008 Soil Vapor Intrusion investigation PCE in soil vapor in concentrations as high as 5,500 ug/m3.
- The 2011 sub-slab and indoor air SVI investigation found TCA in concentrations as high as 53,000 ug/me and PCE in concentrations as high as 15,000 ug/m3 in sub-slab SVI samples.
- PCE and TCA were found concentrations as high as 1.6 ug/m3 and 1.2 ug/m3 respectively in indoor air.

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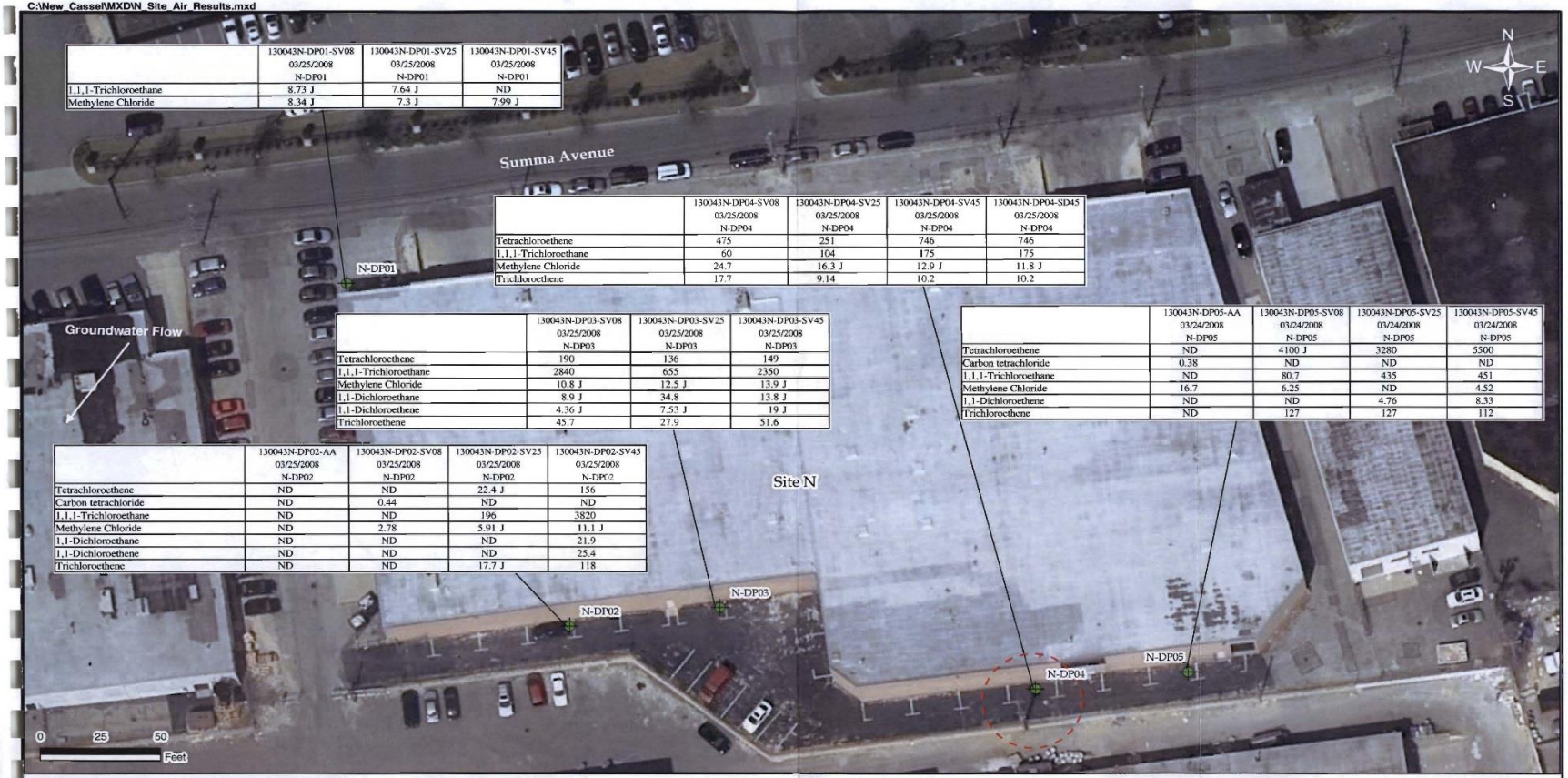


	130043N-DP01-SV08 03/25/2008 N-DP01	130043N-DP01-SV25 03/25/2008 N-DP01	130043N-DP01-SV45 03/25/2008 N-DP01
1,1,1-Trichloroethane	8.73 J	7.64 J	ND
Methylene Chloride	8.34 J	7.3 J	7.99 J

	130043N-DP04-SV08 03/25/2008 N-DP04	130043N-DP04-SV25 03/25/2008 N-DP04	130043N-DP04-SV45 03/25/2008 N-DP04	130043N-DP04-SD45 03/25/2008 N-DP04
Tetrachloroethene	475	251	746	746
1,1,1-Trichloroethane	60	104	175	175
Methylene Chloride	24.7	16.3 J	12.9 J	11.8 J
Trichloroethene	17.7	9.14	10.2	10.2

	130043N-DP03-SV08 03/25/2008 N-DP03	130043N-DP03-SV25 03/25/2008 N-DP03	130043N-DP03-SV45 03/25/2008 N-DP03
Tetrachloroethene	190	136	149
1,1,1-Trichloroethane	2840	655	2350
Methylene Chloride	10.8 J	12.5 J	13.9 J
1,1-Dichloroethane	8.9 J	34.8	13.8 J
1,1-Dichloroethene	4.36 J	7.53 J	19 J
Trichloroethene	45.7	27.9	51.6

	130043N-DP05-AA 03/24/2008 N-DP05	130043N-DP05-SV08 03/24/2008 N-DP05	130043N-DP05-SV25 03/24/2008 N-DP05	130043N-DP05-SV45 03/24/2008 N-DP05
Tetrachloroethene	ND	4100 J	3280	5500
Carbon tetrachloride	0.38	ND	ND	ND
1,1,1-Trichloroethane	ND	80.7	435	451
Methylene Chloride	16.7	6.25	ND	4.52
1,1-Dichloroethene	ND	ND	4.76	8.33
Trichloroethene	ND	127	127	112

	130043N-DP02-AA 03/25/2008 N-DP02	130043N-DP02-SV08 03/25/2008 N-DP02	130043N-DP02-SV25 03/25/2008 N-DP02	130043N-DP02-SV45 03/25/2008 N-DP02
Tetrachloroethene	ND	ND	22.4 J	156
Carbon tetrachloride	ND	0.44	ND	ND
1,1,1-Trichloroethane	ND	ND	196	3820
Methylene Chloride	ND	2.78	5.91 J	11.1 J
1,1-Dichloroethane	ND	ND	ND	21.9
1,1-Dichloroethene	ND	ND	ND	25.4
Trichloroethene	ND	ND	17.7 J	118

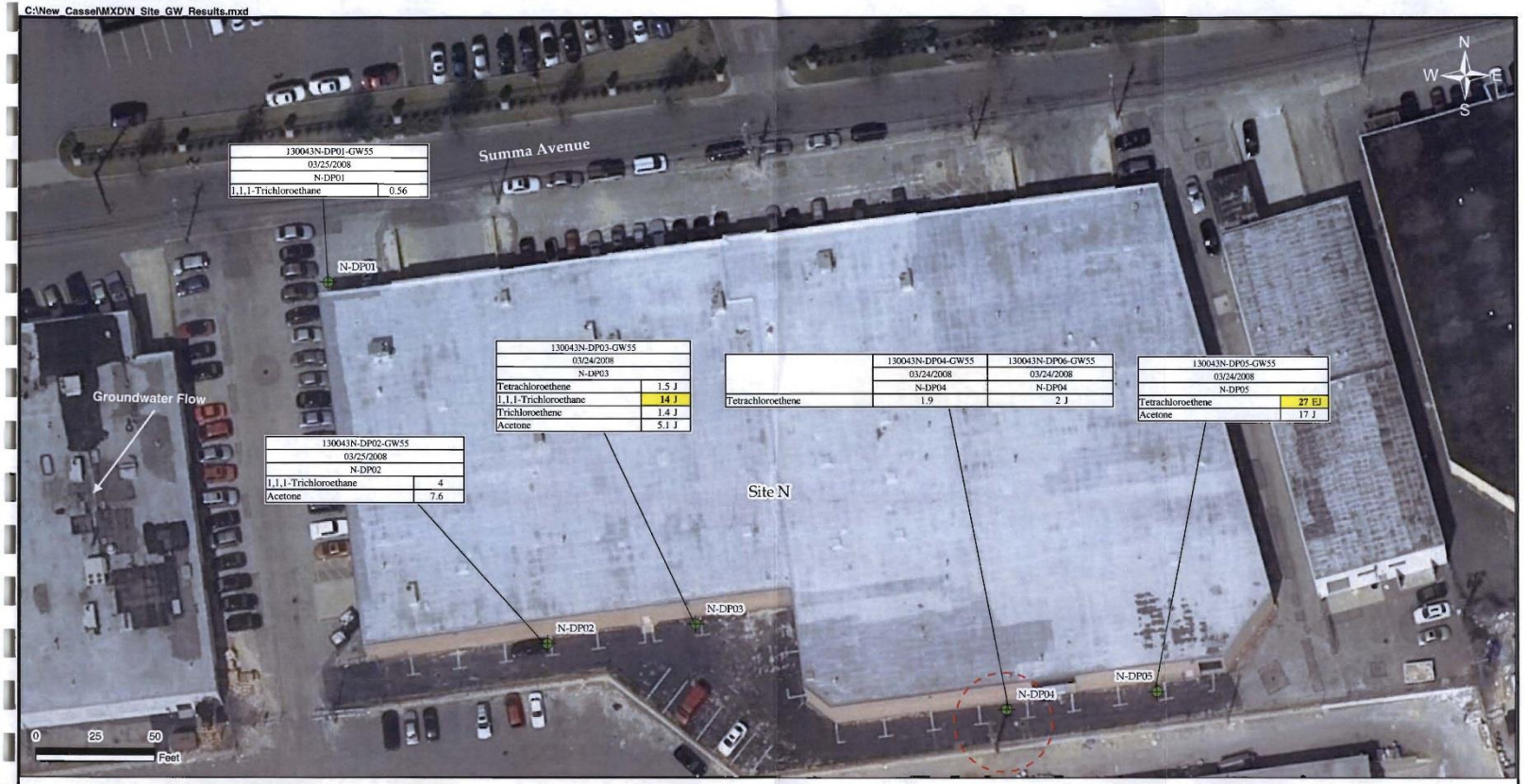
Sampling Location

Potential Historical Source Area
Based on Previous Documentation

Notes:
All units in µg\m3.
ND=Non-detect

CDM

Figure 4-6
Site N
Soil Vapor Chlorinated VOC Detections
750 Summa Avenue
New Cassel Industrial Area
North Hempstead, New York



Sampling Location

Potential Historical Source Area Based on Previous Documentation

Notes:
All units in µg\L.
All exceedances highlighted and bolded.

Site Specific Groundwater Delineation Criteria	
Toluene	5
Tetrachloroethene	5
cis-1,2-Dichloroethene	5
1,1,1-Trichloroethane	5
Methylene chloride	5
1,1-Dichloroethane	5
1,1- Dichloroethene	5
Trichlorofluoromethane	5
Trichloroethene	5
Chloroform	7
Methyl t-Butyl Ether	10
Metylcyclohexane	50
Acetone	50

CDM

Figure 4-13
Site N
Groundwater VOC Exceedances
750 Summa Avenue
New Cassel Industrial Area
North Hempstead, New York

NEW YORK STATE OF OPPORTUNITY
Department of Environmental Conservation

Table 3.6 - Former EZ-EM, Inc. (130043N) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	EZ-EM, Inc. (130043N)									
Site	Structure N									
Location ID	N-SS-01		N-SS-02		N-SS-03		N-IA-01		N-IA-02	
Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
Sample ID	130043N-SS-01		130043N-SS-02		130043N-SS-03		130043N-IA-01		130043N-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**390**		**53000**		**640**		**1.2**		**1.2**	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**1.9**		**26**		**3**		1.2	U	1.2	U
1,1-Dichloroethane	**2.1**		**10**		**0.75**		0.62	U	0.62	U
1,1-Dichloroethene	0.6	U	**32**		0.6	U	0.6	U	0.6	U
1,2,4-Trimethylbenzene	**2.1**	J	**660**	EJ	**3.9**	J	**1**		0.75	U
1,3,5-Trimethylbenzene	**1**	J	**350**	EJ	**1.7**	J	0.75	U	0.75	U
1,4-Dioxane	1.1	U	**20**		1.1	U	1.1	U	1.1	U
2-Butanone	9.6		**140**	EJ	**3.4**		**1.6**		**0.78**	J
2-Hexanone	**2.4**	J	**31**		**1.3**		1.2	U	1.2	U
2-Propanol	64		**87**	J	**68**	J	**2**		**2**	
4-Ethyltoluene	**0.75**	J	**280**	EJ	**1.3**		0.75	U	0.75	U
4-Methyl-2-pentanone	**1.3**	J	**17**		**0.75**	J	1.2	U	1.2	U
Acetone	**110**		**1100**	EJ	**35**		**14**	EJ	**12**	EJ
Benzene	**2.6**		**9.4**		**0.65**		**0.51**		**0.78**	
Carbon disulfide	**6.2**		**15**		**1.9**		0.47	U	0.47	U
Carbon tetrachloride	0.96	UJ	0.96	UJ	0.96	U	**0.58**	J	**0.7**	J
Chlorobenzene	0.7	UJ	**0.51**	J	0.7	U	0.7	U	0.7	U
Chloroform	**2.8**		**15**		**0.69**	J	0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	1		**0.78**	
Cis-1,2-Dichloroethene	**2**		**0.64**		0.6	U	0.6	U	0.6	U
Cyclohexane	**3.3**		0.52	UJ	0.52	U	0.52	U	0.52	U
Dichlorodifluoromethane	**2**		0.75	U	0.75	U	**2.3**		**2.3**	
Ethyl acetate	0.92	U	**0.73**	J	0.92	U	0.92	U	0.92	U
Ethyl benzene	**1.9**	J	**230**	EJ	**2.8**		0.66	U	0.66	U
Heptane	**1.5**		**7.3**	J	**0.79**		0.62	U	0.62	U
Isooctane	0.71	U	**1.3**	J	0.71	U	0.71	U	0.71	U
Methylene chloride	0.53	U	0.53	U	0.53	U	0.53	U	**0.39**	J
Styrene	**0.87**	J	0.65	UJ	0.65	U	0.65	U	0.65	U
Tetrachloroethene	**15000**		**9400**		**1200**		**1.6**		**1**	
Tetrahydrofuran	**1.7**	J	**50**	J	**18**	J	0.45	U	0.45	U
Toluene	**2.8**	J	**38**		**2.8**		**1.5**		**1.4**	
Trichloroethene	**1000**		**3200**	J	**80**		0.22	U	**0.33**	
Trichlorofluoromethane	**1.1**		0.86	U	**1.2**		**0.97**		**1.1**	
Xylene, m/p	**5.7**	J	**1500**	EJ	**12**		**0.79**	J	**0.66**	J
Xylene, o	**1.6**	J	**640**	EJ	**3**		0.66	U	0.66	U

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:

Highlighted results within the guidance criteria for Mitigate, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that reasonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", or no further action to be taken (New York State Department of Health, 2006)

Created by: BAS 04/27/2010
Checked by: LJB 04/28/2010

Tishcon @ 29 New York Ave Continued Site 130043V

- Class C Site.
- The 2000 FRI found no elevated levels of VOCs in on-site soils. Low levels of VOC and metals contamination were found in on on-site dry well. Downgradient levels of VOCs were less than upgradient levels.
- The on-site dry well was remediated in 2000 by an IRM (sludge removal).
- In 2002 a No Further Action ROD was issued.

Tishcon @ 29 New York Avenue Continued Site 130043V

- The 2008 Soil Vapor Intrusion Investigation found TCE in concentrations as high as 147,000 ug/m3 and 1,1-DCA in concentrations as high as 98,200 ug/m3. PCE was as high as 5,760 ug/m3.
- The 2011 sub-slab and indoor air SVI investigation found TCA in concentrations as high as 27,000 ug/m3 in subslab soil vapor, but only 2.5 ug/m3 in indoor air. PCE was found at 1,500 ug/m3 sub-slab and 1,600 ug/m3 in indoor air.

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	130043V-DP01-SV08 03/18/2008 V-DP01	130043V-DP01-SV25 03/18/2008 V-DP01	130043V-DP01-SV45 03/18/2008 V-DP01
Tetrachloroethene	38	33.9 J	57.6 J
1,1,1-Trichloroethane	ND	32.7	65.5
Methylene Chloride	16.7 J	4.86 J	5.56 J
1,1-Dichloroethane	ND	ND	4.05 J
1,1-Dichloroethene	ND	6.34 J	14.7 J
Trichloroethene	6.45	ND	ND

	130043V-DP02-SD45 03/18/2008 V-DP02	130043V-DP02-SV08 03/18/2008 V-DP02	130043V-DP02-SV25 03/18/2008 V-DP02	130043V-DP02-SV45 03/18/2008 V-DP02
Tetrachloroethene	38	21.7 J	38	19.7 J
1,1,1-Trichloroethane	33.3	13.6 J	25.6 J	12.5 J
Methylene Chloride	11.5 J	4.17 J	ND	ND
1,1-Dichloroethane	14.2 J	6.07 J	ND	6.48 J
1,1-Dichloroethene	14.3 J	5.55 J	ND	6.34 J
Trichloroethene	11.8	4.84	ND	4.3

	130043V-DP05-AA 03/17/2008 V-DP05	130043V-DP05-SV08 03/17/2008 V-DP05	130043V-DP05-SV25 03/17/2008 V-DP05	130043V-DP05-SV45 03/17/2008 V-DP05
Tetrachloroethene	29.8	108	5760 J	1970
cis-1,2-Dichloroethene	ND	11.9 J	1670	436
Carbon tetrachloride	0.5	ND	ND	ND
Chloroform	ND	6.35 J	430 J	156 J
1,1,1-Trichloroethane	ND	1640	147000 J	51300
Methylene Chloride	2.43	12.5 J	188 J	90.3 J
1,1-Dichloroethane	ND	1010	72900 J	36000
1,1-Dichloroethene	ND	18.2 J	1630	357 J
Trichloroethene	ND	75.2	3920	1020

	130043V-DP04-SV08 03/18/2008 V-DP04	130043V-DP04-SV25 03/18/2008 V-DP04	130043V-DP04-SV45 03/18/2008 V-DP04
Tetrachloroethene	237 J	502	19.7 J
cis-1,2-Dichloroethene	143	476	ND
trans-1,2-Dichloroethene	4.36 J	5.55 J	ND
Chloroform	46.4	137	ND
1,1,1-Trichloroethane	16900	98200	ND
Methylene Chloride	ND	8.14 J	6.25 J
1,1-Dichloroethane	8090	44500	ND
1,1-Dichloroethene	139	365	ND
Trichloroethene	376 J	1290	5.37

	130043V-DP03-SV08 03/18/2008 V-DP03	130043V-DP03-SV25 03/18/2008 V-DP03	130043V-DP03-SV45 03/18/2008 V-DP03
Tetrachloroethene	23.1 J	74.6	10.8 J
cis-1,2-Dichloroethene	ND	14.3 J	ND
1,1,1-Trichloroethane	109	2460	ND
Methylene Chloride	ND	ND	5.56 J
1,1-Dichloroethane	18.2 J	1210	ND
1,1-Dichloroethene	ND	39.6	ND
Trichloroethene	5.91	48.4	ND

Sampling Location

Potential Historical Source Area
Based on Previous Documentation

Notes:
All units in µg\m3.
ND=Non-detect

CDM

Figure 4-7
Site V
Soil Vapor Chlorinated VOC Detections
29 New York Avenue
New Cassel Industrial Area
North Hempstead, New York

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Sampling Location

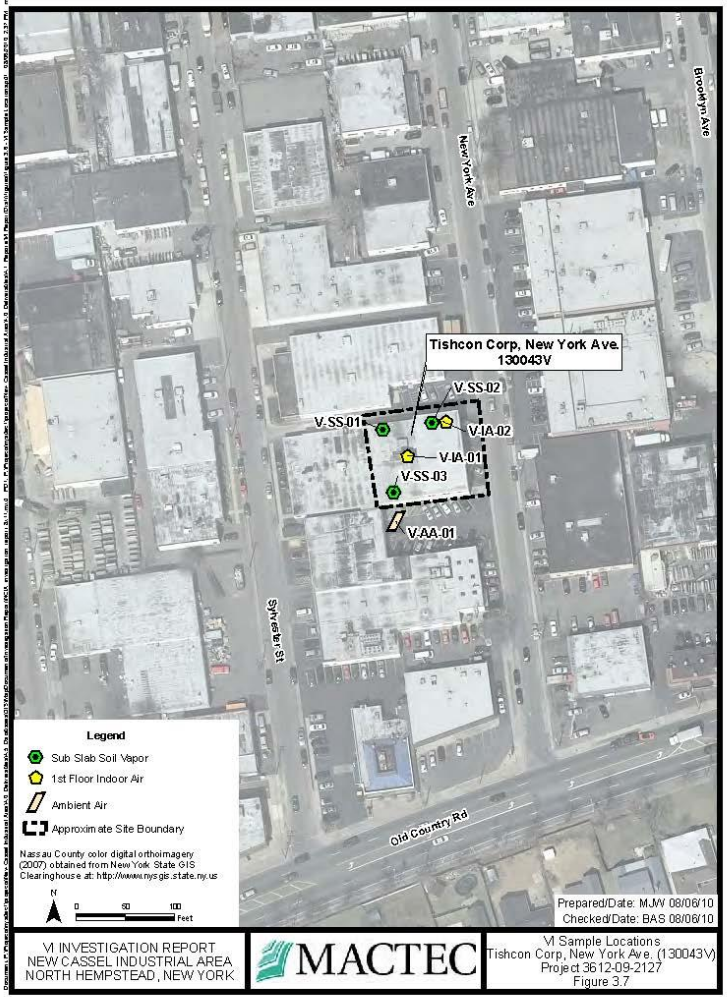
Potential Historical Source Area Based on Previous Documentation

Notes:
All units in µg\L.
All exceedances highlighted and bolded.
ND=Non-detect

Site Specific Groundwater Delineation Criteria	
Toluene	5
Tetrachloroethene	5
cis-1,2-Dichloroethene	5
1,1,1-Trichloroethane	5
Methylene chloride	5
1,1-Dichloroethane	5
1,1- Dichloroethene	5
Trichlorofluoromethane	5
Trichloroethene	5
Chloroform	7
Methyl t-Butyl Ether	10
Methylcyclohexane	50
Acetone	50

CDM

Figure 4-14
Site V
Groundwater VOC Exceedances
29 New York Avenue
New Cassel Industrial Area
North Hempstead, New York



NEW YORK STATE OF OPPORTUNITY
Department of Environmental Conservation

Table 3.7 - Tishcon Corp, New York Ave. (130043V) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Tishcon Corp, New York Ave. (130043V)											
Site	Structure V											
Location ID	V-SS-01		V-SS-02		V-SS-02		V-SS-03		V-IA-01		V-IA-02	
Sample Date	2/18/2010		2/18/2010		2/18/2010		2/18/2010		2/18/2010		2/18/2010	
Sample ID	130043V-SS-01		130043V-SS-02		130043V-SS-02D		130043V-SS-03		130043V-IA-01		130043V-IA-02	
QC Code	FS		FS		FD		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**5500**		**3800**	J	**290**	J	**27000**		**4.2**	J	**4.7**	J
1,1,2-Trichloro-1,2,2-Trifluoroethane	**8.3**		**2.1**		**0.93**	J	12		1.2	U	1.2	U
1,1,2-Trichloroethane	0.83	U	0.83	U	0.83	UJ	**1.8**		0.83	UJ	0.83	UJ
1,1-Dichloroethane	**72**		**79**	J	**8.2**	J	**7900**		**1.5**		**1.6**	
1,1-Dichloroethene	**54**		**780**	J	**25**	J	**240**	EJ	0.6	U	0.6	U
1,2,4-Trimethylbenzene	**5**	J	**16**	J	**2.7**	J	7	J	1	U	**1.3**	J
1,3,5-Trimethylbenzene	**3.7**	J	**13**	J	**1.3**	J	**4.5**	J	0.75	UJ	0.75	UJ
1,4-Dichlorobenzene	0.92	U	**0.86**	J	**1.7**	J	0.92	U	**1.8**	J	**1.6**	J
1,4-Dioxane	**7.5**		**27**	J	1.1	UJ	**10**	EJ	1.1	UJ	1.1	UJ
2-Butanone	**2.7**		**4.9**		**4.5**		**2.8**		**4.9**		**4.4**	
2-Hexanone	1.2	U	**0.92**	J	1.2	UJ	**1**	J	1.2	UJ	1.2	UJ
2-Propanol	**95**	EJ	**21**	J	0.37	UJ	**42**		**28**		0.37	U
4-Ethyltoluene	**1.1**		0.75	UJ	**1.6**	J	**6.6**		**0.55**	J	**0.55**	J
4-Methyl-2-pentanone	**12**		**1000**	EJ	**31**	J	**13**		**2.6**	J	**3.6**	J
Acetone	**30**		**350**		**170**		**49**		**140**		**280**	
Benzene	**1.3**		**1.6**		**1.6**	J	**2.1**		**1.3**	J	**1.3**	J
Carbon disulfide	**0.79**		**9.2**		**0.98**		**4.1**		0.47	U	0.47	U
Carbon tetrachloride	**0.9**	J	0.96	U	0.96	UJ	0.96	U	**0.51**	J	**0.51**	J
Chlorobenzene	0.7	U	0.7	UJ	**0.51**	J	0.7	U	0.7	UJ	**0.47**	J
Chloroform	**8.7**		**1.3**		0.74	U	**40**		0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	0.31	U	**1.4**		**1.1**	
Cis-1,2-Dichloroethene	**1.8**		0.6	U	0.6	U	**49**		0.6	U	0.6	U
Dichlorodifluoromethane	0.75	U	**2.2**		0.75	U	0.75	U	**3**		**3.2**	
Ethyl acetate	0.92	U	**1.1**		**2.3**		0.92	U	**3.5**		**3.5**	
Ethyl benzene	**15**		**390**	J	**68**		**55**	EJ	**41**		**59**	
Heptane	**1.2**		**3.1**	J	**9.7**	J	**1.8**		**9.2**	J	**8.7**	
Hexane	0.54	U	**3.5**		**10**		0.54	U	**6.4**		**5.4**	
Methylene chloride	0.53	U	0.53	U	**1.6**		0.53	U	**1.5**		**1.7**	
Tetrachloroethene	**1100**		**780**	J	**1500**		**1500**		**610**		**1600**	J
Toluene	**5.1**		**320**		**110**		**12**		**59**		**68**	
trans-1,2-Dichloroethene	0.6	U	0.6	U	0.6	U	**2.9**		0.6	U	0.6	U
Trichloroethene	**1000**		**43**	J	**5.8**	J	**800**		**2.5**	J	**2.5**	J
Trichlorofluoromethane	**3**		**2.6**		**6.7**		**2.7**		**4.2**		**4.6**	
Xylene, m/p	**59**		**1500**		**250**		**200**	EJ	**83**	J	**290**	
Xylene, o	**10**		**360**	J	**80**	J	**53**	EJ	**27**		**38**	

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
FD = Field Duplicate Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:

Highlighted results within the guidance criteria for **Mitigate**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

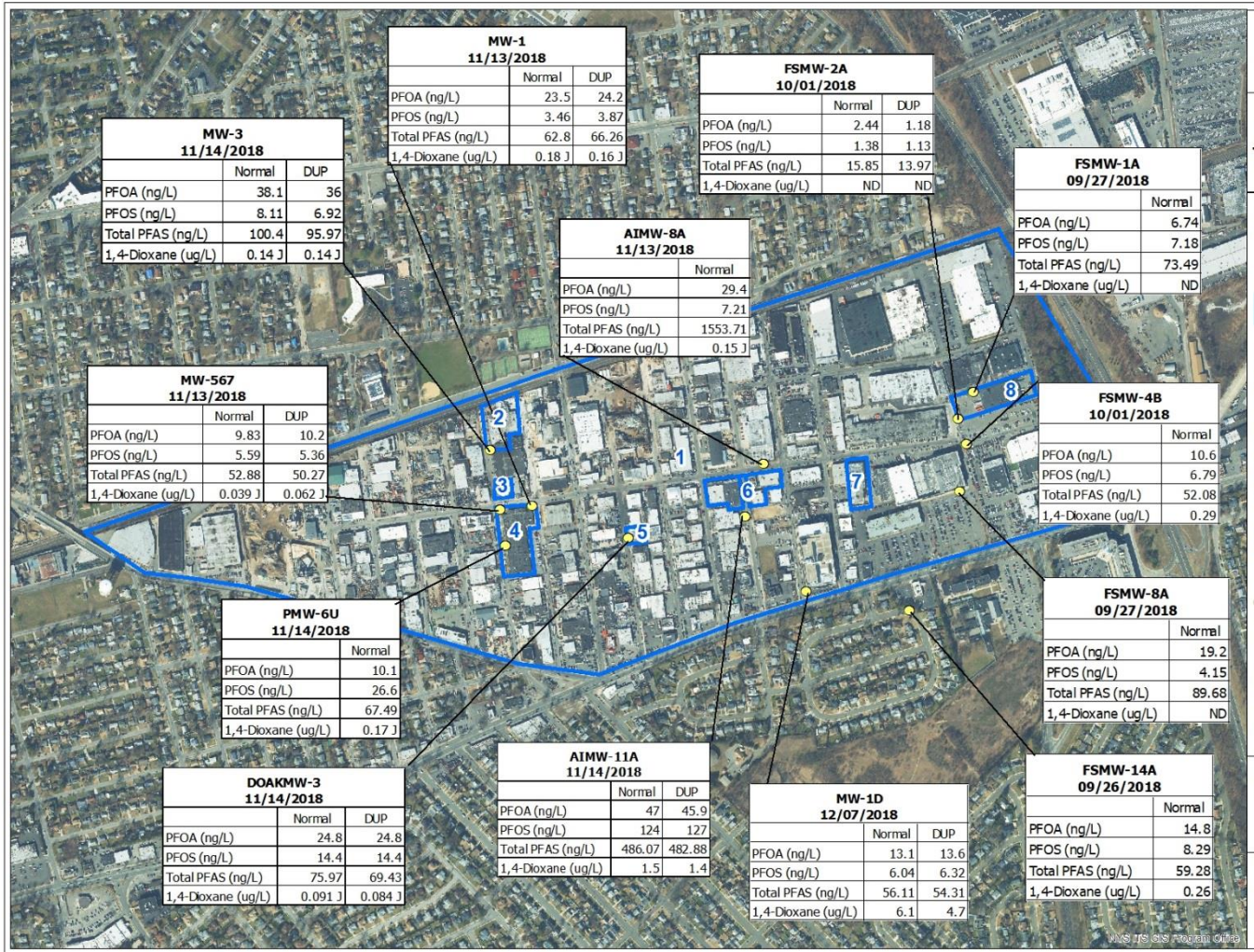
Highlighted results recommend that reasonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Created by: BAS 04/27/2010
Checked by: LJB 04/28/2010

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NCIA EMERGING CONTMINANTS
Available Data

- We have EC Form 1s for 6 sites
- We have EC data for one additional site.



New Cassel Industrial Area Sites

Region 1 Nassau County
Town of North Hempstead

Legend

N

Sample Locations

Site Border

1 New Cassel Industrial Area
2 118-130 Swalm Street
3 Atlas Graphics
4 IMC Magnetics
5 Former LAKA Industries, Inc.
6 Arkwin Industries
7 Utility Manufacturing/ Wonder King
8 Former Autoline Automotive Corp.

0 0.125 0.25 Miles

1 inch = 550 feet

INTENDED TO PRINT AS 11 X 17

Emerging Contaminant Groundwater Results

NEW YORK STATE OF OPPORTUNITY
Department of Environmental Conservation

Date Created: 4/24/2020

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: IMC Magnetics Site ID: 130043A

Date(s) Sampled: Nov. 14, 2018 Class:

Number of Monitoring Wells: 2 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	.18J	☐
PFOA in groundwater	10 ng/L (ppt)	23.5	☑
PFOS in groundwater	10 ng/L (ppt)	26.6	☑
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	7.28 (PFPeA)	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	66.11	☐

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	1,600 ft	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane		
PFAS		

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☑ **Yes** ☐ **No**

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

Project Manager Section Chief

Bureau Director Date Signed

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: Atlas Site ID: 130043B

Date(s) Sampled: November 14, 2018 Class: 2

Number of Monitoring Wells: 1 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	0.039	☐
PFOA in groundwater	10 ng/L (ppt)	9.83	☐
PFOS in groundwater	10 ng/L (ppt)	5.59	☐
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	8.89	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	42.68	☐

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	2,150	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	no	
PFAS	no	

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☑ **Yes** ☑ **No**

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

Project Manager Section Chief

Bureau Director Date Signed

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: Arkwin Site ID: 130043D

Date(s) Sampled: November 14, 2018 Class: 2

Number of Monitoring Wells: 2 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	1.5	☑
PFOA in groundwater	10 ng/L (ppt)	47	☑
PFOS in groundwater	10 ng/L (ppt)	124	☑
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	1370 PFB Acid	☑
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	1538	☑

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	1,800	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	no	
PFAS	no	

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☑ **Yes** ☐ **No**

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

Project Manager Section Chief

Bureau Director Date Signed

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: Utility Manufacturing Site ID: 130043H

Date(s) Sampled: December 7, 2018 Class: 2

Number of Monitoring Wells: 1 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	6.1	☑
PFOA in groundwater	10 ng/L (ppt)	13.1	☑
PFOS in groundwater	10 ng/L (ppt)	6.04	☐
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	10.5	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	56.68	☐

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	1,650 ft	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	no	
PFAS	no	

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☑ **Yes** ☐ **No**

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

Project Manager Section Chief

Bureau Director Date Signed

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: Former Laka Site ID: 130043K

Date(s) Sampled: November 14, 2018 Class: 2

Number of Monitoring Wells: 1 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening Level	Max. Concentration Detected	Check Box if Screening Level Exceeded
1,4-dioxane in groundwater	0.35 ug/L (ppb)	0.091	☐
PFOA + PFOS in groundwater	70 ng/L (ppt)	29.2	☐
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	7.44	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	73.73	☐

Stop here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water Supply Type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	3,100	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	no	
PFAS	no	

If an apparent on-site source is suspected, evaluate the potential for off-site contaminant migration and incorporate into ongoing remedial program if possible.

Further action required at this time? ☐ **Yes** ☑ **No**

If yes, summarize site-specific next steps in the box at the bottom of page 2 of this form.

Project Manager Section Chief

Bureau Director Date Signed

Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: 118-130 Swalm Street Site ID: 130043P

Date(s) Sampled: November 14, 2018 Class: 2

Number of Monitoring Wells: 1 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	0.14	☐
PFOA in groundwater	10 ng/L (ppt)	38.1	☑
PFOS in groundwater	10 ng/L (ppt)	8.11	☐
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	10.7	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	97.83	☑

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	Yes	2,400	GIS
Private well(s)	no		

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	no	
PFAS	no	

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☑ **Yes** ☐ **No**

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

Project Manager Section Chief

Bureau Director Date Signed

NCIA SITES NEEDING ENVIRONMENTAL EASEMEMTS OR ICs

- IMC Magnetics 130043A
- Atlas Graphics 130043B In place but need current confirmation
- Tishcon @ 125 State St. 130043C – currently in progress
- 130043 I, L, and M - checking with R. Decandia will know by next Thursday - didn’t find them in DECDOCS

NCIA SITES WITH PENDING PRRs

Bob, still investigating this- will know by nex Thursday

- 130043A – tracking down current RP
- 130043B – tracking down current RP
- 130043C – working with site owner to get EE and SMP
- 130043D _ This site needs completion of RP SVI investigation
- 130043H – not very familiar with site
- 130043N – not very familiar with site
- 130043P - should be OK

Thank You

Joseph Jones
Engineering Geologist 2
12th Floor, 625 Broadway
Albany NY 12233
joseph.jones@dec.ny.gov
518-402-9621

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