Remedial Investigation Report Soil Addendum

Former ITT Rochester Form Machine Facility
Site # 8-28-112
Town of Gates, NY
3356 / 35273

Prepared for:

ITT Corporation

Prepared by:

O'Brien & Gere Engineers, Inc.

November 21, 2014

O'BRIEN & GERE

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DOUGLAS M. CRAWFORD, P.E., VP
O'BRIEN & GERE ENGINEERS, INC.

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Town of Gates, New York

I, Douglas M. Crawford, certify that I am currently a NYS registered professional engineer and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

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1,1-DCE	1,1-dichloroethylene
AMSF	Alliance Metal Stamping and Fabricating Site
AMSF RIR	RIR for the former AMSF Site
AOCs	Areas of Concern
ASTDR	Agency for Toxic Substances and Disease Registry
ASTs	Aboveground Storage Tanks
Batesville	Batesville Casket Company
BBL	BBL Environmental Services, Inc.
BCP	Brownfield Cleanup Agreement
Bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylene
^{o}C	Centigrade
Cinemark	Cinemark Tinseltown USA and IMAX Movie Theatre Complex
COCs	Constituents of Concern
DNAPL	dense non-aqueous phase liquid
DUSR	Data Usability Summary Report
E	Estimated
ELAP	Environmental Laboratory Accreditation Program
eV	electron volt
FID	Flame Ionization Detector
FS	Feasibility Study
GC/MS	Gas Chromatography Mass Spectrometry
HHRA	Human Health Risk Assessment
ITT	ITT Corporation
MFP	Maguire Family Properties, Inc.
ND	non-detected
NELAP	National Environmental Laboratory Accreditation Program
NPL	National Priority List
NYS	New York State
NYSDEC	New York Department of Environmental Conservation
NYSDOH	New York State Department of Health
O'Brien & Gere	O'Brien & Gere Engineers, Inc.

PCE	tetrachloroethylene
PID	Photoionization Detector
ppm	parts per million
RAOs	Remedial Action Objectives
RFM	Former Rochester Form Machine
RI	Remedial Investigation
RIR	Remedial Investigation Report
Stantec	Stantec Consulting Services, Inc.
SVOCs	semi-volatile organic compounds
TCA	1,1,1-trichloroethane
TCE	trichloroethylene
USEPA	United States Environmental Protection Agency
USTs	Underground Storage Tanks
UV	ultraviolet
VOC	volatile organic compound

1 INTRODUCTION

1.1 ADDENDUM BACKGROUND

This document is an Addendum to the Remedial Investigation Report (RIR) for the Former Rochester Form Machine (RFM) Facility Site (Site # 8-28-112) located at 40 Pixley Industrial Parkway in the Town of Gates, New York (former RFM Site). The RIR was prepared by O'Brien & Gere Engineers, Inc. (O'Brien & Gere) and was submitted by ITT Corporation (ITT) on October 21, 2014 to the New York State Department of Environmental Conservation (NYSDEC). The Remedial Investigation (RI) was conducted by ITT Corporation (ITT) pursuant to an Order on Consent with NYSDEC, dated August 19, 2003 (Consent Order), with an effective date of August 29, 2003 (Index # B8-0614-02-05). A modification to the Consent Order, dated November 2, 2006, substitutes ITT Corporation for ITT Automotive, Inc. In addition, at the time the RI began, the site name was changed from ITT Automotive, Inc. to Former ITT Rochester Form Machine Facility Site, the former RFM Facility, or the former RFM Site. For the purposes of this Addendum, the RIR that addresses the former RFM Site will be referred to as the RFM RIR.

The purpose of this Addendum to the RFM RIR is to provide an expanded presentation of soil sampling results obtained from the former RFM Site, and particularly to soil conditions that existed prior to a 1999 excavation that took place immediately north of the former RFM building. This excavation area was defined and based on pre-RI investigations that identified 1,1,1-trichloroethane (TCA) impacted soils immediately north of the former RFM building (Golder Associates, Inc. [Golder], 2000a and 2000b), (H2M Group [H2M], 1993). Soil sampling results presented in the RFM RIR did not include those data obtained from the soil sampling that took place within the boundaries of the 1999 excavation area prior to excavation. The focus of the presentation of soil sampling results in the RFM RIR was to provide information on conditions that existed on the former RFM Site during the RI to address the nature, extent, fate and transport of the primary constituents of concern (COCs) associated with the former RFM Site. Site related COCs were identified as TCA, associated degradation products, and 1,4-dioxane. Presentation of soil sampling results in the RFM RIR provided appropriate existing conditions for the development of a Human Health Risk Assessment (HHRA), preliminary Remedial Action Objectives (RAOs) and a Feasibility Study (FS) for the former RFM Site.

A major focus of this Addendum to the RFM RIR is on the northern portion of the former RFM building and property because of its proximity to the significant groundwater impacts in and around the northeast portion for the former RFM Site and the northwest portion of the former Alliance Metal Stamping and Fabricating (AMSF) Site and proximate to recharge well AMSF-RW-2 located on the former AMSF Site.

1.2 SITE LOCATION

A Site Location Map is presented in **Figure 1-1**. For the purposes of this report, the former RFM Site is considered the "Site" and the adjacent former AMSF, Cinemark Tinseltown USA and IMAX movie theater complex (Cinemark), and Batesville Casket Company (Batesville) properties are considered "off-Site" properties. The Site and off-Site properties, as presented in the RFM RIR, are presented in **Figure 1-2**. In the RFM RIR, the combined Site and off-Site properties were presented as the "RI Study Area." In this Addendum to the RFM RIR the presentation of soil characterization and discussion of these results will be limited to the former RFM Site.

Recent soil, groundwater and soil vapor sampling on the neighboring former AMSF Site have been conducted by the current owner of that property, Maguire Family Properties, Inc. (MFP), as part of a separate Remedial Investigation under the New York State (NYS) Brownfield Cleanup Program (BCP) and in accordance with a Brownfield Cleanup Agreement (BCA) entered into by MFP with NYSDEC.

Recently, an RIR for the former AMSF Site (AMSF RIR) was submitted to NYSDEC by Stantec Consulting Services, Inc. [Stantec], 2014. There were no new soil sampling results from the former RFM Site presented in the AMSF RIR, therefore the results of the AMSF RIR will not be addressed in this Addendum to the RFM RIR.

2 SOIL SAMPLING AT THE FORMER RFM SITE

Prior to RI soil sampling on the former RFM Site for the RFM RIR, several surface and subsurface soil sampling events took place and were conducted by H2M (1993) and Golder (2000a and 2000b), as well as by NYSDEC (2001). During the data collection phase of the RFM RI, O'Brien & Gere also collected soil samples from the former RFM Site. A focus of soil sampling conducted by O'Brien & Gere was to characterize overburden COCs in the 7 Areas of Concern (AOCs) on the former RFM Site, as identified in the RFM RIR. The AOCs identified on the former RFM Site are listed below and are discussed in detail in the RFM RIR.

- AOC-1: Between the Former 1999 RFM Soil Remediation Area and Recharge Well AMSF-RW-2
- AOC-2: Northern Portion of the Former RFM Building
- AOC-3: Former RFM Degreaser Areas - AOC-3 (Northern Degreaser Area) and AOC-3 (Southern Degreaser Area)
- AOC-4: Former RFM Brazing Dumpster Area
- AOC-5: Former RFM Acid Wash Underground Storage Tanks (USTs)
- AOC-6: Former RFM TCA Aboveground Storage Tanks (ASTs)
- AOC-7: Former RFM Heating Oil UST

AOC-2, AOC-3 (Northern Degreaser Area), AOC-4, and AOC-7 are located entirely on the former RFM Site and are also located in or abutting the northern portion of the former RFM Building. AOC-1 is primarily located on the former AMSF Site; however, a narrow strip of AOC-1 is located on the northeast corner of the former RFM Site. AOC-3 (Southern Degreaser Area), AOC-5 and AOC-6 are also located entirely on the former RFM Site and are located inside of the southern portion of the former RFM Building.

Surface and subsurface soil sampling locations from pre-RI and RI investigations at the former RFM Site are presented in **Figure 2-1**. Locations of the AOCs on the former RFM property are also presented in this figure. An expanded view of the 1999 excavation area (Golder, 2000b) is also presented in **Figure 2-2** indicating soil sampling locations conducted prior to and following excavation. A summary of various soil sampling activities conducted on the former RFM Site is presented in **Table 2-1**. Listed in the table are the report dates, entity conducting the work, boring and soil sampling methods, identification of specific soil borings, volatile organic compound (VOC) and 1,4-dioxane analytical methods and soil vapor methods of soil screening with the type of Flame Ionization Detector (FID) or Photoionization Detector (PID) lamp used, if known. Collection of soil samples at the former RFM Site took place over a 14-year period (1991 -2004).

Soil boring methodologies used by H2M for the borings listed in **Table 2-1** were described in H2M (1993) Section 2.4 Soil Sampling Methodology. Soil vapor screening of the split spoon cores was described in H2M (1993) Section 2.5.2 Field Sampling and utilized a HNu PID detector with an unspecified PID lamp voltage. Soil boring logs with PID soil screening results are reported in H2M (1993) Appendix C and by O'Brien & Gere (2014) in Appendix C of the RFM RIR.

Soil boring methodologies used by Golder for the borings, soil sampling and enclosed headspace PID measurements listed in **Table 2-1** were described in Golder (2000a) Section 4.2 Overburden Soil Borings. Soil samples collected at 2-foot (ft) depth intervals were placed in enclosed headspace Ziploc® bags and were sealed, then warmed to stabilize temperature and subsequently sampled with a MinniRae® PID detector with an unspecified PID lamp voltage. Additionally, soil samples were screened with an ultraviolet (UV) fluorescence lamp to detect the potential presence of Non Aqueous Phase Liquids (NAPLs). Soil boring logs were presented in Golder (2000a) and also in O'Brien & Gere (2014) Appendix C. Enclosed field headspace PID measurements were reported in Golder (2000a) Table 2 – Soil Headspace Analysis Results.

Soil boring methodologies used by Golder for additional soil borings were described in Golder (2000b), Section 2.2.1 Soil Boring Installation and Groundwater Sampling. Soil vapor UV fluorescence screening methods were the same as those described in Golder (2000a). Soil boring logs were presented in Golder (2000b) Appendix A and also in O'Brien & Gere (2014) Appendix C. Enclosed field headspace PID measurements were reported in Golder (2000b) Table 1 – Field Headspace Analysis Results.

Soil boring methodologies and soil vapor screening used by NYSDEC were reported in NYSDEC (2001), Section 3.2 Subsurface Soil Sampling and Analysis. Soil vapor screening was conducted using both PID and FID detectors and on both surficial soil vapor screening of the split spoon soil core once opened and then again for enclosed field headspace FID and PID measurements from a sealed container with soil present. Soil boring logs, PID and FID soil core screening and enclosed field headspace PID and FID measurements were reported in NYSDEC Appendix B.

Soil boring methodologies used by O'Brien & Gere were reported in the RFM RIR (2014). Soil vapor screening was conducted using enclosed field headspace baggies with temperature stabilization and then analyzed with an 11.7 electron volt (eV) PID lamp. Soil samples were screened with a UV fluorescence lamp to detect the potential presence of NAPLs. Soil boring logs, enclosed field headspace PID measurements and UV fluorescence screening results were reported in soil boring logs presented in O'Brien & Gere (2014) Appendix C.

The only soil analytical results presented in the RFM RIR and in this Addendum, that have undergone data validation and that have been included in a Data Usability Summary Report (DUSR), are those collected by O'Brien & Gere as part of the RFM RI. Specific data validation procedures and DUSR methods used by O'Brien & Gere are discussed in the RFM RIR and presented in detail in Appendix O of the RFM RIR. United States Environmental Protection Agency (USEPA) analytical methods used to analyze VOCs in soils reported by H2M (1993), Golder (2000a and 2000b), NYSDEC (2001) and O'Brien &Gere (2014) are presented in **Table 2-1.** Each of these VOC analytical methods were well established and generally accepted methods for analyzing VOCs in soils at the time the work was conducted, and the laboratories conducting these analyses were all certified laboratories under the New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP).

During the 1990s and throughout the last decade, 1,4-dioxane has become an emerging environmental compound (USEPA, 2009). USEPA has recognized that there are limitations to the analytical methods used for the analysis of 1,4-dioxane and as a result it has been difficult to identify 1,4-dioxane in the environment (USEPA, 2006), (USEPA, 2009), (USEPA, 2014), (Agency for Toxic Substances and Disease Registry [ASTDR], 2012). The analytical method approved for the analysis of 1,4-dioxane in the NYSDEC approved RFM RI Phase I Work Plan (O'Brien and Gere, 2004) and the RFM RI Phase II Work Plan

Addendum (O'Brien and Gere, 2008) was USEPA Method 8270C, with Category B deliverables. NYSDEC (2001) used USEPA Method 8270 for the analysis of 1,4-dioxane in samples analyzed from the former RFM Site; however, Category B deliverables were not provided and the data was not validated and did not go through a DUSR analysis. Analyses of 1,4-dioxane in samples collected by H2M (1993) were conducted using USEPA Method 8240, while Golder (2000a and 2000b) conducted analyses of samples using USEPA Method 8260, both of which utilize a purge and trap based extraction method, prior to analysis using Gas Chromatography Mass Spectrometry (GC/MS).

Challenges in the analysis of 1,4-dioxane using unmodified purge and trap based analytical methods, including USEPA Methods 8240 and 8260, are very well documented in the literature (USEPA, 2006), (BBL Environmental Services, Inc. [BBL], 2006), (USEPA, 2009), (USEPA, 2014), (ASTDR,2012). The difficulties of analyzing 1,4-dioxane in environmental samples using purge and trap methods arises from its physical and chemical properties in comparison to other VOCs, particularly because 1,4-dioxane is miscible in water and has a very low Henry's Law constant of 3×10^{-6} (atm-m^3)/mol (Mohr, 2001) making it a poorly purgeable compound. Problems with 8240 and 8260 based analytical methods for the measurement of 1,4-dioxane in environmental samples include high detection limits, high response factors, interferences, and quantitation difficulties. Modifications of USEPA purge and trap methods have been made to increase purging efficiency, quantify spike recovery and confirm identification of 1,4-dioxane, by increasing purging temperature from ambient to 80 degrees Centigrade (^oC), using deuterated d-8 1,4-dioxane in internal standards and by using Single Ion Monitoring (SIM), respectively (USEPA Region I, 2004). Methods of 1,4-dioxane analysis reported by Golder (2000a and 2000b) did not utilize any of the above modifications. H2M (1993) used SIM with 40^oC purging on some of the soil samples analyzed during their work.

2.1 SCREENING AND DEFINITIVE DATA

In the RFM RIR, screening and definitive data were defined and are also applicable for this Addendum to the RFM RIR O'Brien & Gere (2014).

2.1.1 Screening Data Defined in RFM RIR

Screening data are generated by rapid, less precise methods of analysis with less rigorous sample preparation. Sample preparation steps may be restricted to simple procedures such as dilution with a solvent, instead of elaborate extraction/digestion and cleanup. Screening data provide analyte identification and quantitation, although the quantitation may be relatively imprecise. Where appropriate, at least 10% of the screening data should be confirmed using analytical methods and QA/QC procedures and criteria associated with definitive data. Screening data without associated confirmation data are not considered to be data of known quality. For the RFM RI, laboratory screening analyses included the following: VOCs, dissolved gases, semi-volatile organic compounds (SVOCs), metals, alkalinity (total, bicarbonate and carbonate), chloride, sulfate and total organic carbon.

2.1.2 Definitive Data and Research Data Defined in RFM RIR

Definitive and research data are generated using rigorous analytical methods, such as USEPA methods. Data are analyte-specific, with confirmation of analyte identity and concentration. Methods produce tangible raw data in the form of paper printouts or computer-generated electronic files. Data may be generated at the Site or at an off-Site location, as long as the QA/QC requirements are satisfied. For the data to be definitive, either analytical or total measurement error must be determined. For the RFM RI, the laboratory definitive and research analyses included the following: VOCs, 1,4-dioxane (by USEPA Method 8270 SVOC analysis), porosity, organic carbon, and extractable chlorinated target analytes.

2.1.3 Use of Screening and Definitive Data in this RIR Addendum

For the purposes of this Addendum to the RFM RIR, the VOC measurements of chlorinated and non-chlorinated compounds are considered to be definitive data, even though VOC analyses reported by H2M (1993), Golder (2000a and Golder 2000b) and NYSDEC (2001) did not undergo data validation and a DUSR analysis. H2M (1993) and Golder (2000a and 2000b) VOC analyses followed standard USEPA analytical methods specifically developed for the analysis of hydrophobic VOCs, including TCA and associated degradation products, as well as chloroethenes and benzene, toluene, ethylbenzene, and total xylene (BTEX) compounds detected in the subsurface at the former RFM Site. The only definitive 1,4-dioxane data are those analyzed by USEPA Method 8270. These definitive data include 1,4-dioxane results reported by NYSDEC (2001) and O'Brien & Gere (2014). Prior 1,4-dioxane analyses performed by H2M (1993) and Golder (2000a and 2000b) are considered screening data. Discussion of 1,4-dioxane analysis of soils at the former RFM Site will focus on the use of the definitive data only.

3 SOIL SAMPLING RESULTS

3.1 SURFACE SOIL SAMPLING RESULTS

Two former RFM Site surface soil samples (SS-1 and SS-2) and one soil sample collected immediately under a concrete floor drain in the former RFM building (TD-1) were analyzed for VOCs and one of the samples, TD-1, was also analyzed for 1,4-dioxane by USEPA Method 8270. Surface and subsurface VOC soil sampling results are found in **Table 3-1** and the TD-1 1,4-dioxane surface soil sampling result is located in **Table 3-2**.

Sample SS-1 was located in the southeast corner of the former RFM Site on the boundary with the former AMSF Site and sample SS-2 was located in the northeast portion of the former RFM Site on the boundary with the former AMSF Site (**Figure 2-1**). Sample TD-1 was obtained from the AOC-3 Southern Degreaser Area from soil located under cracks in a concrete lined trench drain (**Figure 2-1**). COCs were non-detected (ND) for surface soil samples SS-1 and SS-2, as reported by Golder (2000a). No analysis of 1,4-dioxane was conducted on these samples. TCA and 1,4-dioxane were not detected in sample TD-1. Trace concentrations of trichloroethylene (TCE), tetrachloroethylene (PCE) and 1,1-dichloroethylene (1,1-DCE) were reported in sample TD-1 at 0.004 mg/kg, 0.003 mg/kg and 0.009 mg/kg, respectively and were the only chlorinated compounds detected.

3.2 SUBSURFACE SOIL SAMPLING RESULTS

Results of subsurface soil sampling from the northern portion of the former RFM Site will be presented in the following sections: VOCs in Section 3.2.1 and 1,4-dioxane in Section 3.2.2.

3.2.1 – VOC Results

The main impacts to groundwater at the former RFM Site and former AMSF Site are associated with TCA. The majority of impacts to soils on the former RFM Site are associated with TCA. Subsurface soil TCA and other VOC results from the southern portion of the former RFM Site were presented and discussed in the RFM RIR and therefore will not be further addressed in this Addendum. Therefore, the focus of the presentation of VOC impacts to subsurface soils on the former RFM Site in this Addendum will be primarily on TCA impacts to the northern portion of the former RFM Site. TCA concentrations in subsurface soil samples, along with other VOCs are presented in **Table 3-1**. **Figure 3-1** was developed for the purpose of understanding vertically distributed impacts of TCA in subsurface soils in the northern portion of the former RFM Site, including the former 1999 excavation area.

The depth of excavation in the former 1999 excavation area was to the top of bedrock and varied from 6 to 11 ft bgs with specific excavation depths identified in Figure 7 of the Golder (2000b) report. To allow

for as much removal of overburden soil as practicable during excavation, portions of the fractured bedrock at the base of the excavation were removed. Approximately 968 tons of soil were excavated and it was noted that no NAPL was observed during excavation of impacted soils (Golder, 2000b). Five confirmatory sidewall soil samples (CS-1 through CS-5) were collected prior to backfilling. TCA concentrations in CS-1 through CS-5 varied from non-detected to 0.029 mg/kg (Golder, 2000b). It was not possible to take confirmation soil samples from the bottom of the former 1999 excavation area because the bottom of the excavation was at bedrock.

TCA subsurface soil concentrations from the Northern portion of the former RFM Site are presented as various colored dots for three subsurface depth intervals, as follows: **Figure 3-1a**, 0 to 4 ft below ground surface (bgs) depth interval; **Figure 3-1b**, 4 to 6 ft bgs depth interval; and **Figure 3-1c**, greater than 6 ft bgs depth interval. In each figure, non-detected concentrations of TCA are indicated by a black dot and four ranges of TCA concentrations are shown as increasing larger sized circles with various colors to signify increasingly greater concentrations. The highest concentration range of 10.001 mg/kg to 570 mg/kg is represented by red colored circles.

3.2.2 Subsurface Soil TCA Concentrations in the 0 to 4 ft bgs Depth Interval

In the 0 to 4 ft bgs depth interval, only one soil sample was detected in the northern portion of the former RFM Site with a TCA soil concentration greater than 10 mg/kg (**Figure 3-1.a**). The sample BH-99-7 (0 to 4 ft depth interval) was reported with a TCA soil concentration of 12 E mg/kg. A second soil sample was also collected from this boring, BH-99-7 (6 to 8 ft bgs depth interval) and was reported with a soil TCA concentration of 1.6 E mg/kg (**Figure 3-1c**). The location of BH-99-7 was within the 1999 excavation area, approximately 5 ft from the northern wall of the former RFM building. A TCA soil concentration versus depth plot for BH-99-7 is also presented in **Figure 3-1a** and includes enclosed soil headspace PID measurements at various depths in this boring. Field soil vapor enclosed headspace screening measurements used in the soil gas versus depth concentration plot in **Figure 3-1a** were presented in Table 1, reported in Golder (2000b). Both TCA soil concentrations and enclosed field headspace PID measurements decreased with depth. The decreasing concentrations with depth indicate that impacts to bedrock were at very low concentration levels. UV fluorescence screening was performed on soil samples from the same depth intervals that enclosed field headspace PID measurements were measured and the results were negative, indicating the absence of NAPLs associated with this boring. The highest TCA soil concentration in the 0 to 4 ft bgs depth interval of 1.6 E mg/kg is more than 3 orders of magnitude lower than the 10,000 mg/kg soil concentration suggested by USEPA (1994) as an indicator of dense non-aqueous phase liquid (DNAPL) in soil.

3.2.3 Subsurface Soil TCA Concentrations in the 4 to 6 ft bgs Depth Interval

In the 4 to 6 ft bgs depth interval, TCA was detected in only one soil sample in the northern portion of the former RFM Site with a TCA soil concentration greater than 10 mg/kg (**Figure 3-1b**). The sample BH-99-19 (4 to 6 ft bgs depth interval) was reported with a TCA soil concentration of 51 mg/kg. A second soil sample was also collected from this boring BH-99-19 (6 to 8 ft bgs depth interval) and was reported with a concentration of 570 E mg/kg. The location of BH-99-19 was within the 1999 excavation area. A TCA concentration versus depth plot along with enclosed field headspace measurements from this soil boring BH-99-19 is also presented in **Figure 3-1b**. The concentration of TCA in soils increased with respect to depth at this soil boring location. A similar trend was observed with the enclosed field headspace PID measurements with respect to depth in this boring. UV fluorescence screening was performed on soils from the same depth intervals that enclosed field headspace PID measurements were measured and the results were negative, indicating the absence of NAPLs associated with this boring. The highest TCA soil concentration in the 4 to 6 ft bgs depth interval was 51 mg/kg and is more than two

orders of magnitude lower than the 10,000 mg/kg soil concentration suggested by USEPA (1994) as an indicator of DNAPL in soil.

Several adjacent borings to BH-99-19 in the 4 to 6 ft bgs depth interval had TCA soil concentrations less than 2 mg/kg as follows: BH-99-22 (1.5 mg/kg); BH-99-25 (0.2 mg/kg); BH-99-35 (0.015 mg/kg); BH-99-36A (0.65 mg/kg); and ITT-SBW-3 (0.93 mg/kg). These borings were adjacent to BH-99-19, between 5 to 15 feet away, and indicate a localized impact of TCA in soils associated with the immediate area of BH-99-19.

3.2.4 Subsurface Soil TCA Concentrations in the Greater than 6 ft bgs Depth Interval

In the greater than 6 ft bgs depth interval, three soil samples in the northern portion of the former RFM Site had TCA soil concentrations greater than 10 mg/kg (**Figure 3-1c**). As presented in Section 3.2.2, above, the sample BH-99-19 (6 to 8 ft bgs depth interval) was reported with a TCA soil concentration of 570 E mg/kg. Several adjacent borings to BH-99-19, in the greater than 6 ft bgs depth interval, had TCA soil concentrations less than 10 mg/kg. BH-99-6 (6 to 8 ft bgs depth interval) and BH-99-23 (8 to 10 ft bgs depth interval) were reported with TCA soil concentrations of 4.2 E mg/kg and 0.37 mg/kg, respectively. Both of these borings were located within 3 ft of BH-99-19. BH-99-18 (6 to 8 ft bgs depth interval), BH-99-23 (8 to 10 ft bgs depth interval), BH-99-37 (6 to 8 ft bgs depth interval), BH-99-38 (6 to 8 ft bgs depth interval) and ITT-SBW-3 (8 to 10 ft bgs depth interval) all were reported with TCA concentrations less than 0.37 mg/kg. These additional adjacent borings to BH-99-19 were between 5 to 10 feet away indicating a localized impact of TCA in soils associated with the immediate area of BH-99-19.

BH-99-10 (6 to 8 ft bgs depth interval) and BH-99-10 (8 to 10 ft bgs depth interval) were reported with TCA concentrations in soil of 10 mg/kg and 27 mg/kg, respectively. This soil boring is located in the former 1999 excavation area and in the northeast portion of the former RFM Site. A TCA concentration versus depth plot along with enclosed field headspace measurements from the soil boring BH-99-10 is also presented in **Figure 3-1c**. The trend of increasing TCA soil concentrations and enclosed field headspace PID measurements with respect to depth is similar to that of BH-99-19. Two adjacent soil borings that are located within 10 ft of BH-99-10 are BH-99-44 and ITT-MW-2, with TCA soil concentrations reported at 0.92 mg/kg (8 to 10 ft bgs depth interval) and 0.79 mg/kg (6 to 8 ft bgs depth interval), respectively. Two additional borings that are located approximately 11 to 15 feet away from BH-99-10 are BH-99-29 and BH-99-30 with TCA soil concentrations reported at 2.3 mg/kg (6 to 7 ft bgs depth interval) and 2.2 mg/kg, (6 to 7 ft bgs depth interval), respectively. The four adjacent borings to BH-99-10 were less than 15 feet away and TCA concentrations in these four borings did not exceed 2.3 mg/kg, indicating a localized impact of TCA concentrations in soils associated with the immediate area of BH-99-10.

While not shown in **Figure 3-1c**, the enclosed field headspace PID measurement with respect to depth for BH-99-44 also reveals a similar increasing concentration trend versus depth with a PID measurement of 3.5 parts per million (ppm) (0 to 2 ft bgs depth interval) and increasing to 11.5 ppm (6 to 8 ft bgs depth interval) and then to 40.6 ppm (8 to 11 ft bgs depth interval. Field PID soil screening measurements at ITT-MW-2 were not collected using an enclosed headspace method.

BH-99-40B (8 to 10 ft bgs depth interval) was reported with a TCA concentration in soil of 11 mg/kg. A TCA concentration versus depth plot along with enclosed field headspace measurements from this soil boring BH-99-40B is also presented in **Figure 3-1c**. The trend of increasing enclosed field headspace PID measurements with respect to depth is similar to that of BH-99-19 and BH-99-10. Two adjacent borings that are located within 10 ft of BH-99-40B are BH-99-46 and BH-99-41 with TCA soil concentrations reported at 0.085 mg/kg (6 to 8 ft bgs depth interval) and 0.8 mg/kg (8 to 10 ft bgs

depth interval), respectively. These additional adjacent borings to BH-99-40B were between 5 to 10 feet away indicating a localized impact of TCA in soils associated with the immediate area of BH-99-40B. Soil borings BH-99-29 and BH-99-30, were also located between 11 and 15 feet from BH-99-40B, between BH-99-40B and BH-99-10. Additionally, a row of soil samples on the former RFM Site and between the 1999 excavation area and the location of ASMF-RW-2 in the greater than 6 ft bgs depth interval were reported in the RFM RIR with TCA soil concentrations as follows: BH-99-1 (6 to 6.9 ft bgs depth interval) at 0.012 mg/kg, BH-99-41 (8 to 10 ft bgs depth interval) at 0.8 mg/kg, BH-99-43 (8 to 10 ft bgs depth interval) at 0.045 mg/kg, BH-99-46 (6 to 8 ft bgs depth interval) at 0.085 mg/kg, CS-1 (7 ft bgs depth) at 0.011 mg/kg, and OBG-SB-29 (5.0 to 6.5 ft bgs depth interval) at 0.021 mg/kg.

As noted above, the highest TCA soil concentration in the northeastern portion of the former RFM Site, in the greater than 6 ft bgs depth interval, was 27 mg/kg and is more than two orders of magnitude lower than the 10,000 mg/kg soil concentration suggested by USEPA (1994) as an indicator of DNAPL in soil.

While not shown in **Figure 3-1c**, the enclosed field headspace PID measurements with respect to depth in BH-99-29, BH-99-30, BH-99-41 and BH-99-46 also reveal a similar increasing concentration trend versus depth.

The highest TCA soil concentration in the greater than 6 ft bgs depth interval at the former RFM Site was 570 E mg/kg reported in sample BH-99-19 (6 to 8 ft bgs depth interval) located in the western portion of the 1999 excavation area. This concentration is more than 1.5 orders of magnitude lower than the 10,000 mg/kg soil concentration suggested by USEPA (1994) as an indicator of DNAPL in soil. Soil samples in the greater than 6 ft bgs depth interval tested negative for DNAPLs using the UV fluorescence method.

3.2.5 1,4-Dioxane Results

Results from the analysis of 1,4-dioxane in subsurface soils at the former RFM Site are reported in **Table 3-2 Figure 3-2** in a bubble plot.

In the northern half of the former RFM Site, 1,4-dioxane was analyzed using USEPA Method 8270C in subsurface soils from 17 sampling locations (36 discrete soil samples) (O'Brien & Gere, 2014). 1,4-Dioxane was reported as non-detected at 15 of the 17 subsurface sampling locations and in 32 of 34 discrete soil samples analyzed. Non-detectable reporting limits in subsurface soils from the northern portion of the former RFM Site varied from 0.37 mg/kg to 0.43 mg/kg. The highest 1,4-dioxane concentration detected in subsurface soils sampled in the northern portion of the former RFM Site was 0.93 mg/kg in a duplicate sample from OBG-SB-20 (2 to 4 ft depth interval). The original sample from OBG-SB-20 (2 to 4 ft depth interval) was 0.17 J mg/kg. A deeper soil sample was also analyzed for 1,4-dioxane at OBG-SB-20 (6 to 7 ft depth interval) and was reported at 0.6 mg/kg. One additional subsurface soil sample from the northern portion of the former RFM building was reported to have a detection of 1,4-dioxane at 0.039 J mg/kg from OBG-SB-21 (4 to 6 ft depth interval). OBG-SB-21 was located adjacent to, and approximately 5 ft from, OBG-SB-20. Both OBG-SB-20 and OBG-SB-21 were located in AOC-3 (Northern Degreaser Area). An additional boring OBG-SB-19 was also located adjacent to OBG-SB-20 approximately 5 ft to the northeast of OBG-SB-20 and two subsurface soil samples from OBG-SB-19 (4 to 7 ft and 8.5 to 10 ft depth intervals) were reported as non-detected.

In the southern half of the former RFM Site, 1,4-dioxane was analyzed using USEPA Method 8270C in subsurface soils from 14 sampling locations (28 discrete soil samples) (O'Brien & Gere, 2014). 1,4-Dioxane was reported as non-detected at 12 of the 14 subsurface soil sampling locations and in 26 of 28 discrete soil samples. Non-detectable reporting limits in subsurface soils from the southern portion of the former RFM Site varied from 0.37 mg/kg to 0.42 mg/kg. The highest 1,4-dioxane concentration

reported in subsurface soils sampled in the southern portion of the former RFM Site was 0.69 mg/kg in sample OBG-SB-18 (6 to 7 ft depth interval). A deeper soil sample was obtained from OBG-SB-18 (7 to 9.5 ft depth interval) and was reported as non-detected. OBG-SB-18 is located in AOC-6. There were two additional soil sampling locations in AOC-6 with 1,4-dioxane concentrations reported as non-detected. One of the two additional soil boring locations was adjacent to OBG-SB-18 and approximately 5 ft away. The second subsurface soil sampling location in the southern portion of the former RFM Site with a detection of 1,4-dioxane was OBG-SB-8, located in AOC-5, with a concentration of 0.11 J mg/kg (7 to 9 ft depth interval). An additional soil sample from this soil boring was reported to be non-detected at OBG-SB-8 (1.5 to 3 ft depth interval).

Each of the above borings with detections of 1,4-dioxane in soils, both the northern and southern sections of the former RFM building, were isolated with either very low or non-detected concentrations of 1,4-dioxane in adjacent borings.

It is important to illustrate the qualitative and quantitative differences between screening 1,4-dioxane subsurface soil analyses previously conducted at the former RFM Site using USEPA Method 8240 by H2M (1993) and USEPA Method 8260 by Golder (2000a) and the definitive 1,4-dioxane subsurface soil data reported by O'Brien & Gere using USEPA Method 8270C.

- Subsurface soil sample ITT-MW-2 (6 to 8 ft bgs depth interval) (**Figures 2-1 and 2-2**) was reported by H2M (1993) to have a 1,4-dioxane concentration of 170 mg/kg with a TCA concentration of 0.79 mg/kg. Immediately adjacent to ITT-MW-2 and approximately 4 to 5 ft away, BH-99-28 (4 to 6 ft bgs depth interval) was reported by Golder (2000a) with 1,4-dioxane at 4.1 E mg/kg and TCA at 0.04 mg/kg. The results in both cases of ITT-MW-2 and BH-99-28 produce a ratio of 1,4-dioxane to TCA of 215 and 103, respectively. Virgin TCA typically contains approximately 2.5 percent 1,4-dioxaneresulting in a 1,4-dioxane to TCA ratio of 0.025. The high 1,4-dioxane to TCA ratios from the H2M and Golder analytical results suggest that the 1,4-dioxane concentrations are anomalously high.
- Only one subsurface soil sampling location reported by O'Brien & Gere (2014) was immediately proximate to a subsurface soil sample location conducted by either Golder (2000a and 2000b) or H2M (1993). Two soil samples from BH-99-31 (1 to 4 ft bgs depth interval) and BH-99-31 (4 to 6 ft bgs depth interval) were reported by Golder (2000a) with 0.072 mg/kg and 0.21 mg/kg TCA concentrations, respectively. Two soil samples from OBG-SB-19 (4 to 7 ft bgs depth interval) and OBG-SB-19 (8.5 to 10 ft bgs depth interval) were reported by O'Brien & Gere (2014) with 0.09 mg/kg and 0.62 mg/kg TCA concentrations, respectively. These TCA concentrations reported by Golder (2000a) and O'Brien & Gere (2014) are in relatively close agreement in soil borings that were located approximately 2 to 3 ft away from one another. In contrast, the 1,4-dioxane screening data concentrations in BH-99-31 (1 to 4 ft bgs depth interval) and BH-99-31 (4 to 6 ft bgs depth interval) were reported by Golder (2000a) with 17 E mg/kg and 11 E mg/kg, respectively. The 1,4-dioxane concentrations in OBG-SB-19 (4 to 7 ft bgs depth interval) and OBG-SB-19 (8.5 to 10 ft bgs depth interval) were reported by O'Brien & Gere (2014) both with non-detected concentrations. It is evident that the VOC methods of analysis for soils used by both Golder (2000b) and O'Brien & Gere (2014) generated TCA soil concentration results that were in close agreement. However, the screening 1,4-dixoane data generated by Golder (2000a) were more than two orders of magnitude greater than those definitive data non-detected results reported by O'Brien & Gere (2014) that were also validated and underwent a DUSR analysis.

4 DISCUSSION

USEPA (1994) provided guidance on DNAPL site characterization methods, including soil sampling, to determine the presence of DNAPLs at a site. In USEPA (1994) guidance is provided for the determinant, inferential and suggestive indications of DNAPL presence as follows: 1) determined directly by visual examination of subsurface samples; 2) inferred by interpretation of chemical analysis or subsurface

samples; and/or 3) suspected by interpretation of anomalous chemical distribution or hydrogeologic data. USEPA (1993) provided guidance on the likelihood of finding DNAPLs at National Priority List (NPL) Sites and included similar criteria for the inference of DNAPLs based on soil and groundwater concentrations. USEPA (1994) lists UV fluorescence as a method to enhance inspection of a soil sample for DNAPL. Golder (2000b) screened 189 discrete subsurface soil samples on the former RFM Site using UV fluorescence for the potential presence of NAPL and each of the samples was reported as negative for the presence of NAPLs. O'Brien & Gere (2014) also tested 27 subsurface soil samples for the presence of NAPLS using UV fluorescence and the samples were reported as negative for the presence of NAPLs. The USEPA (1994) guidance on inferring DNAPL presence by interpretation of soil concentrations of DNAPL constituents is established at 10,000 mg/kg and higher concentrations.

The highest concentration of TCA measured in any soil sample collected from the former RFM site was reported to be 570 E mg/kg from BH-99-19 (6 to 8 ft bgs depth interval) which is more than a factor of 17 times lower than the USPEA (1994) guidance value of 10,000 mg/kg for the potential presence of DNAPL in soils. Additionally, no other VOC compounds were detected in sample BH-99-19 (6 to 8 ft bgs depth interval). At the BH-99-19 (6 to 8 ft bgs depth interval) location in the 1999 excavation area, with the highest TCA reported concentration in overburden soils at the former RFM Site, this sample location is surrounded above and adjacent to other sample locations with lower or non-detected TCA concentrations in overburden soils at the sampled depth intervals, indicating a localized and isolated impact.

The distribution of TCA concentrations in overburden soil at greater than 10 mg/kg indicates limited and sporadic areal distributions in the 1999 excavation area on the former RFM Site. Results of the analysis of TCA in overburden soils at the former RFM Site in and around the former excavation area, prior to excavation, indicated that no continuous distribution of TCA concentrations indicative of NAPL level concentrations existed in the overburden soil. Similarly, no continuous distribution of TCA concentrations indicative of NAPL level concentrations existed in the overburden soil in the former RFM excavation area away from the location at BH-99-19 in any direction, and particularly in an easterly direction towards the former AMSF Site and particularly towards the TCA groundwater impacts located at AMSF-MW-7 and AMSF-RW-2.

Residual saturation capacity measurements of non-wetting phase hydrophobic petroleum distillates in selected sands were first experimentally measured by Hoag (1986). Residual saturation was defined as the saturation that is attained after an initially NAPL saturated porous media is allowed to drain by gravity to equilibrium conditions (Hoag, et al., 1986). The residual saturation capacity can generally be defined as the volume of NAPL retained under drainage conditions in the unsaturated zone divided by the volume of voids. In addition to residual saturation, Schwille (1984, 1988), Mercer and Cohen (1990) and Zytner et al., (1993) define the term retention capacity to describe residual saturation of the non-wetting phase in the vadose zone in terms of volume of NAPL per unit volume of soil. The importance of NAPL residual saturation in soils above the water table is that a portion of mass of NAPL is retained in soils before NAPL can flow advectively, either horizontally or vertically, through the soil. Therefore, if NAPLs are discharged to vadose zone soils, NAPLs tend to create areas of high concentrations of NAPL compounds (i.e., residual saturation concentrations) in soils. In addition to there being no TCA soil samples reported in excess of the USPEA (1994) guidance value of 10,000 mg/kg for the potential presence of DNAPL in soils, no TCA soil concentrations approached residual saturation capacities, as residual saturation concentrations are significantly greater than the USEPA (1994) guidance value.

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TABLES

Table 2-1
Summary of Soil Sampling Activities (1991 - 2004)
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Entity	Report	Report Date	Sampling Dates	Soil Sampling Method	Applicable Soil Boring Locations	Source References	Soil Vapor Screening Method	Instrument Used	Lamp	VOC Analysis USEPA Method	1,4-Dioxane Analysis USEPA Method
H2M Group	Quantitative Environmental Survey	April 1993	October 22, 1991 to November 13, 1991	Split Spoon	ITT-MW-4, SB-3, SB-4, SB-5, SB-6	Boreholes were constructed by advancing hollow stem augers into the soil to the desired sampling depth using a truck mounted drill rig. A split-spoon sampler, 2 feet in length was then attached to a drill rod, lowered through the auger to the desired depth of collection, and driven into the soil for the length of the spoon. [Page 5] The groundwater monitoring wells were constructed with a truck mounted drill rig, using 8-inch inner diameter hollow stem augers. [Page 9]	Soil Boring Screening	PID	N/A	8240	8240
					ITT-MW-1, ITT-MW-2, ITT-MW-3,		Soil Boring Screening	PID	N/A	8240 SIM	8240 SIM
				Bucket Auger	APC2-1, APC2-2, APC3-1, APC3-2, SB-1, SB-2, SB-7, SB-9, SB-10	Soil borings located inside the building were collected from beneath the concrete floor of the plant. An electric hammer was used to penetrate the concrete slab. Soil samples were collected by boring down to the desired sampling depth using a hand held bucket auger. Samples were collected at a depth of 6 to 8 feet below grade. [Page 5] Concurrent with the soil boring program, five (5) shallow soil borings (SB-I, SB-2,SB-7, SB-9, and SB-IO) were collected utilizing a stainless steel hand-held bucket auger. [Page 6]	Soil Boring Screening	PID	N/A		
NYSDEC	Site Investigation Report ITT Automotive Fluid Handling Systems and Former Alliance Metal Stamping and Fabricating	December 2001	July 28, 1998 to August 17, 1998	Split Spoon	SBW-1, SBW-1A, SBW-2, and SBW-3	Subsurface soil samples were collected from each soil boring advanced during the investigation. Soil samples were collected continuously using a standard 2" outside diameter (O.D.) split-spoon sampler. [Page 3-2]	Soil Boring Screening and Enclosed Headspace Sealed Jar	PID and FID	N/A	8260	8270
				Plastic Scoop	SS-1 through SS-4	Surface soil samples were collected from the first two inches of soil using a new disposable plastic scoop after sod and surface debris was removed. [Page 3-1]	N/A	N/A	N/A	8260	N/A
Golder	Groundwater Investigation	March 2000	March1, 1999 to April 12, 1999	Split Spoon	SBW-4, SBW-5, SBW-5A, SBW-6, SBW-7, SBW-8, and BH-99-1	The overburden drilling was performed using 6-1\4-inch inside diameter (ID) hollow stem augers with continuous soil sampling. The sampling was performed through the augers using 2-foot long, 2-inch diameter split spoon samplers [Page 12]	Enclosed Headspace Plastic Bag	MiniRae ® PID	N/A	8260	8260
Golder	Supplemental Subsurf ace Investigation Risk Assessment, Natural Attenuation Evaluation and Soil Remediation	May 2000	September 15, 1999 to November 24, 1999	Direct Push Macro-Core ®	BH-99-2 through BH-99-46	Golder advanced shallow overburden soil borings at a total of 45 locations using a Geoprobe® direct push drilling method during two investigation events. Borings were advanced at 31 locations on September 15 and 16, 1999, during the initial phase of the investigation. Based on the preliminary laboratory results of the initial phase, soil borings were advanced at an additional 14 locations to further delineate the extent of VOCs in the overburden soil. The borings were located in the northeast corner of the facility near previous borings where elevated concentrations of VOCs were detected, in the vicinity of MW-2, SBW-3, and SB-8. [Page 13]	Enclosed Headspace Plastic Bag	MiniRae ® PID	N/A	8260	8260
O'Brien & Gere	Remedial investigation Report	October 2014	August 30, 2004 to September 3, 2004	Bucket Auger	TD-1	The sample was collected from 0-6 inches below the bottom of the concrete using a decontaminated hand auger and transferred to the appropriate sample container. [Page 18]	Enclosed Headspace Plastic Bag	MiniRae ® PID	11.7 eV	8260B	Not Performed
				Direct Push Macro-Core ®	OBG-SB-1 through OBG-SB-44	Soil boring locations were selected in the field with the NYSDEC between August 30, 2004 and September 2, 2004. Soil borings were installed by Nothnagle Drilling Inc. (Nothnagle) using direct push drilling methods [Page 18]					
				Split Spoon	ITT-SBW-9, ITT-SBW-10, ITT-SBW-11, ITT-SBW-12, ITT-SBW-13, ITT-SBW-14, ITT-SBW-15, ITT-SBW-16, AMSF-MW-11S, AMSF-MW-12S, and AMSF-MW-13S	The overburden was continuously sampled, using 2 inch split-spoon samplers, to the top of bedrock for soil description. Soil grain size descriptions were based on the modified Wentworth grain size classification scale. [Page 37]					

Notes:
eV - electron volts
FID - Flame ionization detector
N/A - not available
NYSDEC - New York State Department of Environmental Conservation
PID - photoionization detector
SIM - selective ion monitoring
USEPA - United State Environmental Protection Agency
VOC - volatile organic compound

Table 3-1
VOC Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	APC2-1	APC2-2	APC3-1	APC3-2	BH-99-1	Removed BH-99-2	Removed BH-99-3	BH-99-4	BH-99-5	Removed BH-99-6	Removed BH-99-7	Removed BH-99-7	Removed BH-99-8	Removed BH-99-8	Removed BH-99-9	Removed BH-99-10
Location							APC2-1	APC2-2	APC3-1	APC3-2	BH-99-1	BH-99-2	BH-99-3	BH-99-4	BH-99-5	BH-99-6	BH-99-7	BH-99-7	BH-99-8	BH-99-8	BH-99-9	BH-99-10
Sample Date:							10/23/1991	10/23/1991	10/23/1991	10/23/1991	4/12/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999
Sample ID:							APC2-1	APC2-2	APC3-1	APC3-2	BH-99-1(6-6.9)	BH-99-2 (6-7)	BH-99-3 (6-7)	BH-99-4 (6-8)	BH-99-5 (6-8)	BH-99-6 (6-8)	BH-99-7 (2-4)	BH-99-7 (6-8)	BH-99-8 (3-4)	BH-99-8 (8-10)	BH-99-9 (4-6)	BH-99-10 (6-8)
Start Depth (ft bgs):							6	6	6	6	6	6	6	6	6	6	2	6	3	8	4	6
End Depth (ft bgs):							8	8	8	8	6.9	7	7	8	8	8	4	8	4	10	6	8
Sample Type Code:							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC	0.006 U	0.006 U	0.014	0.006 U	0.012 ^	**0.750**	0.019 U	0.047	0.006 U	**4.200 E**	**12.000 E**	**1.600 E**	0.340	**1.500**	0.250	**10.000**
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	---	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.077	0.005 U	0.013	0.740 U	0.010 U	0.720 U
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC	0.006 U	0.006 U	0.006 U	0.006 U	---	0.600 U	0.019 U	0.018	0.006 U	0.160	**0.360 E**	0.024	0.009 U	0.740 U	0.010 U	0.720 U
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC	0.006 U	0.006 U	0.006 U	0.006 U	---	0.600 U	0.019 U	0.006 U	0.006 U	0.006	0.020	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
2-Butanone	0.12	100	0.12	0.3	500	NC	---	---	---	---	---	3.000 U	0.094 U	0.028 U	0.028 U	0.025 U	0.032 U	0.025 U	0.044 U	3.700 U	0.048 U	3.600 U
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC	---	---	---	---	0.010 U	1.200 U	0.037 U	0.011 U	0.011 U	0.010 U	0.013 U	0.010 U	0.018 U	1.500 U	0.019 U	1.400 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC	---	---	---	---	0.010 U	1.200 U	0.037 U	0.011 U	0.011 U	0.01 U	0.013 U	0.010 U	0.018 U	1.500 U	0.019 U	1.400 U
Acetone	0.05	NC	0.05	NC	500	NC	0.012 U	0.012	0.014 B	0.008	0.025 U	3.000 U	0.094 U	0.028 U	0.028 U	0.025 U	0.032 U	0.025 U	0.044 U	3.700 U	0.048 U	---
Acrolein	NC	NC	NC	NC	NC	NC	---	---	---	---	0.020 U	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC	---	---	---	---	0.020 U	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC	---	---	---	---	0.0007 U	0.084 U	0.003 U	0.0008 U	0.0008 U	0.0007 U	0.0009 U	0.0007 U	0.001 U	0.100 U	0.001 U	0.100 U
Bromobenzene	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Bromoform	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Bromomethane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Chloroethane	NC	NC	NC	1.9	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Chloroform	0.37	NC	0.37	NC	350	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Chloromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.022	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC	0.006 U	0.006 U	0.006 U	0.006 U	---	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Methylene chloride	0.05	NC	0.05	NC	500	NC	0.004	0.004	0.003	0.004	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
o-Xylene	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Styrene	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC	0.006 U	0.006 U	0.006 U	0.006 U	---	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.260	0.032	0.011	0.740 U	0.010 U	0.720 U
Toluene	0.7	NC	0.7	NC	500	NC	0.006 U	0.006 U	0.006 U	0.006 U	---	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Total BTEX	NC	NC	NC	NC	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC	0.006 U	0.006 U	0.006 U	0.006 U	---	0.600 U	0.019 U	0.006 U	0.006 U	0.065	0.390	0.056	0.009 U	0.740 U	0.010 U	0.720 U
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	0.005 U	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Chloride	0.02	NC	0.02	NC	13	NC	---	---	---	---	0.002 U	0.240 U	0.007 U	0.002 U	0.002 U	0.002 U	0.003 U	0.002 U	0.004 U	0.290 U	0.004 U	0.290 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC	---	---	---	---	---	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U
Xylene (total)	0.26	NC	1.6	NC	500	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.600 U	0.019 U	0.006 U	0.006 U	0.005 U	0.006 U	0.005 U	0.009 U	0.740 U	0.010 U	0.720 U

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
& - Value revised per laboratory data sheets presented in the Quantitative Environmental Survey dated April 1993. Value reported in October 20, 2014 RIR was incorrect.
^ - Value revised per laboratory data sheets presented in the Groundwater Investigation dated March 2000. Value reported in October 20, 2014 RIR was incorrect.

Table 3-1
VOC Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	Location	BH-99-10	BH-99-11B	BH-99-12	BH-99-13	BH-99-14A/B	BH-99-15	BH-99-16	BH-99-17	BH-99-18	BH-99-19	BH-99-19	BH-99-20	BH-99-21	BH-99-22	BH-99-23	BH-99-25
							Removed			Removed		Removed	Removed	Removed	Removed	Removed	Removed	Removed	Removed	Removed	Removed	Removed	Removed
							Sample Date:	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999
							Sample ID:	BH-99-10 (8-10)	BH-99-11B (5-7)	BH-99-12 (6-8)	BH-99-13 (8-10)	BH-99-14A (4-6)	BH-99-15 (4-6)	BH-99-16 (4-6)	BH-99-17 (7-9)	BH-99-18 (6-8)	BH-99-19 (4-6)	BH-99-19 (6-8)	BH-99-20 (4-6)	BH-99-21 (2-4)	BH-99-22 (4-6)	BH-99-23 (8-10)	BH-99-25 (4-6)
							Start Depth (ft bgs):	8	5	6	8	4	4	4	7	6	4	6	4	2	4	8	4
							End Depth (ft bgs):	10	7	8	10	6	6	6	9	8	6	8	6	4	6	10	6
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC		**27.000**	0.019	0.170	0.130	**0.700**	**1.500**	0.025	**1.600**	0.025 U	**51.000**	**570.000 E**	0.380	**2.400**	**1.500**	0.370	0.200
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.087	0.520 U	2.400 U	0.010 U	0.010 U
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
2-Butanone	0.12	100	0.12	0.3	500	NC		3.400 U	0.034 U	0.041 U	0.140 U	3.40 U	3.500 U	0.120 U	3.500 U	0.120 U	34.000 U	68.000 U	0.052 U	2.600 U	2.400 U	0.048 U	0.051 U
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC		1.400 U	0.007 U	0.016 U	0.054 U	1.40 U	1.400 U	0.050 U	1.400 U	0.049 U	14.000 U	27.000 U	0.021 U	1 .000U	0.970 U	0.019 U	0.020 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC		1.400 U	0.014 U	0.016 U	0.054 U	1.40 U	1.400 U	0.050 U	1.400 U	0.049 U	14.000 U	27.000 U	0.021 U	1.000 U	0.970 U	0.019 U	0.020 U
Acetone	0.05	NC	0.05	NC	500	NC		3.400 U	0.034 U	0.041 U	0.140 U	3.40 U	3.500 U	0.120 U	3.500 U	0.120 U	34.000 U	68.000 U	0.052 U	2.600 U	0.480 U	0.048 U	0.051 U
Acrolein	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC		0.095 U	0.001 U	0.001 U	0.004 U	0.095 U	0.098 U	0.003 U	0.099 U	0.003 U	0.96 U	1.900 U	0.001 U	0.073 U	0.068 U	0.001 U	0.001 U
Bromobenzene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Bromoform	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Bromomethane	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Chloroethane	NC	NC	NC	1.9	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Chloroform	0.37	NC	0.37	NC	350	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Chloromethane	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Methylene chloride	0.05	NC	0.05	NC	500	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
o-Xylene	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.089 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Styrene	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Toluene	0.7	NC	0.7	NC	500	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Total BTEX	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	**1.600**	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.015	0.520 U	0.480 U	0.016	0.016
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Chloride	0.02	NC	0.02	NC	13	NC		0.270 U	0.003 U	0.003 U	0.011 U	0.270 U	0.280 U	0.010 U	0.280 U	0.010 U	2.700 U	5.400 U	0.004 U	0.210 U	0.190 U	0.004 U	0.004 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.700 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U
Xylene (total)	0.26	NC	1.6	NC	500	NC		0.680 U	0.007 U	0.008 U	0.027 U	0.680 U	0.089 U	0.025 U	0.700 U	0.025 U	6.900 U	14.000 U	0.010 U	0.520 U	0.480 U	0.010 U	0.010 U

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
& - Value revised per laboratory data sheets presented in the Quantitative Environmental Survey dated April 1993. Value reported in October 20, 2014 RIR was incorrect.
^ - Value revised per laboratory data sheets presented in the Groundwater Investigation dated March 2000. Value reported in October 20, 2014 RIR was incorrect.

Table 3-1
VOC Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	Location	BH-99-26	BH-99-27	BH-99-28	BH-99-29	BH-99-30	BH-99-31	BH-99-31	BH-99-32	BH-99-33	BH-99-34	BH-99-35	BH-99-36A	BH-99-37	BH-99-38	BH-99-39	BH-99-40B
							Sample Date:	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999
							Sample ID:	BH-99-26 (4-6)	BH-99-27 (4-6)	BH-99-28 (4-6)	BH-99-29 (6-7)	BH-99-30 (6-7)	BH-99-31 (1-4)	BH-99-31 (4-6)	BH-99-32 (1-4)	BH-99-33 (1-2)	BH-99-34 (2-4)	BH-99-35 (4-6)	BH-99-36 (4-6)	BH-99-37 (6-8)	BH-99-38 (6-8)	BH-99-39 (6-8)	BH-99-40B (8-10)
							Start Depth (ft bgs):	4	4	4	6	6	1	4	1	1	2	4	4	6	6	6	8
							End Depth (ft bgs):	6	6	6	7	7	4	6	4	2	4	6	6	8	8	8	10
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC		0.033	0.010	0.040	**2.300**	**2.200**	0.072	0.210	0.110	0.092	0.021	0.015	0.65	0.012	0.030	0.010 U	**11.000**
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
2-Butanone	0.12	100	0.12	0.3	500	NC		0.050 U	0.047 U	0.048 U	3.600 U	2.300 U	0.048 U	0.045 U	0.048 U	0.130 U	0.049 U	0.048 U	0.140 U	0.051 U	0.050 U	0.048 U	2.300 U
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC		0.020 U	0.019 U	0.019 U	1.400 U	0.920 U	0.019 U	0.018 U	0.019 U	0.052 U	0.019 U	0.019 U	0.056 U	0.020 U	0.020 U	0.019 U	0.910 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC		0.020 U	0.019 U	0.019 U	1.400 U	0.920 U	0.019 U	0.018 U	0.019 U	0.052 U	0.019 U	0.019 U	0.056 U	0.020 U	0.020 U	0.019 U	0.910 U
Acetone	0.05	NC	0.05	NC	500	NC		0.050 U	0.047 U	0.048 U	3.600 U	2.300 U	0.048 U	0.045 U	0.048 U	0.130 U	0.010 U	0.048 U	0.140 U	0.051 U	0.050 U	0.048 U	2.300 U
Acrolein	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC		0.001 U	0.001 U	0.001 U	0.100 U	0.064 U	0.001 U	0.001 U	0.001 U	0.004 U	0.001 U	0.001 U	0.004 U	0.001 U	0.001 U	0.001 U	0.064 U
Bromobenzene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Bromoform	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Bromomethane	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Chloroethane	NC	NC	NC	1.9	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Chloroform	0.37	NC	0.37	NC	350	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Chloromethane	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Methylene chloride	0.05	NC	0.05	NC	500	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
o-Xylene	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Styrene	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.028	0.069	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Toluene	0.7	NC	0.7	NC	500	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Total BTEX	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Chloride	0.02	NC	0.02	NC	13	NC		0.004 U	0.004 U	0.004 U	0.280 U	0.180 U	0.004 U	0.004 U	0.004 U	0.010 U	0.004 U	0.004 U	0.011 U	0.004 U	0.004 U	0.004 U	0.180 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U
Xylene (total)	0.26	NC	1.6	NC	500	NC		0.010 U	0.009 U	0.010 U	0.710 U	0.460 U	0.010 U	0.009 U	0.010 U	0.026 U	0.010 U	0.010 U	0.028 U	0.010 U	0.010 U	0.010 U	0.450 U

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
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[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
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- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
& - Value revised per laboratory data sheets presented in the Quantitative Environmental Survey dated April 1993. Value reported in October 20, 2014 RIR was incorrect.
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Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	Location	BH-99-41 (Removed)	BH-99-42	BH-99-43 (Removed)	BH-99-44	BH-99-45	BH-99-46 (Removed)	CS-01	CS-02	CS-03	CS-04	CS-05	ITT-MW-1	ITT-MW-2	ITT-MW-3	ITT-MW-4	ITT-MW-4
							Sample Date:	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	11/23/1999	11/23/1999	11/23/1999	11/24/1999	11/24/1999	10/23/1991	10/23/1991	10/23/1991	10/24/1991	10/24/1991
							Sample ID:	BH-99-41 (8-10)	BH-99-42 (4-6)	BH-99-43 (8-10)	BH-99-44 (8-10)	BH-99-45 (6-8)	BH-99-46 (6-8)	CS-01	CS-02	CS-03	CS-04	CS-05	MW-1(SOIL)10-23-91	MW-2(SOIL)10-23-91	MW-3(SOIL)10-23-91	MW-4 (1-2)10-24-91	MW-4 (6-8)10-24-91
							Start Depth (ft bgs):	8	4	8	8	6	6	7	6.5	7.5	7	9	8	6	4	1	6
							End Depth (ft bgs):	10	6	10	10	8	8	7	6.5	7.5	7	9	10	8	6	2	8
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC		**0.800**	0.012	0.045	**0.920**	0.016	0.085	0.011	0.029	0.006 U	0.006 U	0.006 U	0.004 J	**0.790**	0.006 U	0.001 J	0.006 U
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.011 J	0.006 U	0.006 U	0.006 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.005 J &	0.006 U
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.012 J	0.006 U	0.006 U	0.006 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
2-Butanone	0.12	100	0.12	0.3	500	NC		0.130 U	0.049 U	0.048 U	0.130 U	0.048 U	0.046 U	0.031 U	0.032 U	0.030 U	0.031 U	0.029 U	0.011 U	0.057 U	0.012 U	0.012 U	0.013 U
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC		0.053 U	0.020 U	0.019 U	0.052 U	0.019 U	0.018 U	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.011 U	0.057 U	0.012 U	0.012 U	0.013 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC		0.053 U	0.020 U	0.019 U	0.052 U	0.019 U	0.018 U	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.011 U	0.057 U	0.012 U	0.012 U	0.013 U
Acetone	0.05	NC	0.05	NC	500	NC		0.130 U	0.049 U	0.048 U	0.130 U	0.048 U	0.046 U	0.031 U	0.032 U	0.030 U	0.031 U	0.029 U	0.003 BJ	0.014 BJ	0.007 BJ	0.003 BJ	0.006 BJ
Acrolein	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC		0.004 U	0.001 U	0.001 U	0.004 U	0.001 U	0.001 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0008 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Bromobenzene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Bromoform	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Bromomethane	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.011 U	0.057 U	0.012 U	0.012 U	0.013 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Chloroethane	NC	NC	NC	1.9	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.011 U	0.057 U	0.012 U	0.012 U	0.013 U
Chloroform	0.37	NC	0.37	NC	350	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Chloromethane	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.011 U	0.057 U	0.012 U	0.012 U	0.013 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	---	---	---	---	---
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Methylene chloride	0.05	NC	0.05	NC	500	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.003 BJ	0.011 BJ	0.003 BJ	0.002 BJ	0.003 BJ
o-Xylene	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	---	---	---	---	---
Styrene	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.017 J	0.006 U	0.006 U	0.002 J
Toluene	0.7	NC	0.7	NC	500	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.003 BJ
Total BTEX	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.8 U	0.006 U	0.028 U	0.006 U	0.003	0.003
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	---	---	---	---	---
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.058	0.006 U	0.006 U	0.006 U
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	0.011 U	0.057 U	0.012 U	0.012 U	0.013 U
Vinyl Chloride	0.02	NC	0.02	NC	13	NC		0.011 U	0.004 U	0.004 U	0.010 U	0.004 U	0.004 U	0.002 U	0.003 U	0.002 U	0.002 U	0.002 U	0.011 U	0.057 U	0.012 U	0.012 U	0.013 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	---	---	---	---	---
Xylene (total)	0.26	NC	1.6	NC	500	NC		0.027 U	0.010 U	0.010 U	0.026 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.028 U	0.006 U	0.006 U	0.006 U

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
& - Value revised per laboratory data sheets presented in the Quantitative Environmental Survey dated April 1993. Value reported in October 20, 2014 RIR was incorrect.
^ - Value revised per laboratory data sheets presented in the Groundwater Investigation dated March 2000. Value reported in October 20, 2014 RIR was incorrect.

Table 3-1
VOC Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	Location	ITT-SBW-1A	ITT-SBW-2	ITT-SBW-2	ITT-SBW-2	ITT-SBW-3	ITT-SBW-3	ITT-SBW-3	ITT-SBW-3	ITT-SBW-3	ITT-SBW-3	ITT-SBW-3	ITT-SBW-4	ITT-SBW-5A	ITT-SBW-6	ITT-SBW-7
							Sample Date:	8/17/1998	8/17/1998	8/17/1998	8/17/1998	8/17/1998	8/17/1998	8/17/1998	8/17/1998	8/17/1998	8/17/1998	8/17/1998	8/17/1998	3/1/1999	3/2/1999	3/3/1999	3/3/1999
							Sample ID:	N04601	SBW-2 (4-6)	N04602	N04603	SBW-3 (2-4)	N04604	SBW-3 (4-6)	N04605	SBW-3 (6-8)	N04606	SBW-3 (8-10)	N04607	SBW-4(7-8.7)	SBW-5A(8-9.8)	SBW-6(8-9)	SBW-7(8-9.8)
							Start Depth (ft bgs):	10	4	4	6	2	2	4	4	6	6	8	8	7	8	8	8
							End Depth (ft bgs):	12	6	6	8	4	4	6	6	8	8	10	10	8.7	9.8	9	9.8
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
								NYSDEC Sample		NYSDEC Sample	NYSDEC Sample		NYSDEC Sample		NYSDEC Sample		NYSDEC Sample		NYSDEC Sample				
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC		0.063	ND	0.011 U	0.070	0.11	**0.740**	**2.1 E**	0.093	0.068	0.028	0.420 E	0.340 D	0.006 U	0.015	0.005 U	0.039
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC		0.011 U	ND	0.011 U	0.011 U	0.007 J	0.018 J	ND	0.009 J	ND	0.011 U	ND	0.011 J	0.006 U	0.005 U	0.005 U	0.006 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC		0.011 U	---	0.011 U	0.011 U	---	0.031 J	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC		0.011 U	ND	0.011 U	0.002 J	ND	0.043 J	0.006 J	0.011 U	ND	0.011 U	ND	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.006 J	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	---	---	---	---
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
2-Butanone	0.12	100	0.12	0.3	500	NC		0.011 U	0.007 J	0.011 U	0.011 U	0.004 J	0.063 U	ND	0.011 U	ND	0.011 U	ND	0.012 U	0.028 U	0.026 U	0.026 U	0.028 U
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.011 U	0.010 U	0.011 U	0.011 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	0.011 U	0.010 U	0.011 U	0.011 U
Acetone	0.05	NC	0.05	NC	500	NC		0.009 J	0.008 J	0.011 U	0.011 U	ND	0.059 J	ND	0.010 J	ND	0.009 J	ND	0.012 U	0.028 U	0.026 U	0.026 U	0.028 U
Acrolein	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC		0.001 J	ND	0.011 U	0.011 U	ND	0.063 U	ND	0.011 U	ND	0.011 U	0.002 J	0.012 U	0.0008 U	0.0007 U	0.0007 U	0.0007 U
Bromobenzene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Bromoform	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Bromomethane	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Chloroethane	NC	NC	NC	1.9	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Chloroform	0.37	NC	0.37	NC	350	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Chloromethane	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC		---	---	---	---	---	---	---	---	---	---	---	---	0.006 U	0.005 U	0.005 U	0.006 U
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC		0.011 U	ND	0.011 U	0.011 U	ND	0.063 U	0.005 J	0.011 U	ND	0.011 U	ND	0.001 J	0.006 U	0.005 U	0.005 U	0.006 U
Methylene chloride	0.05	NC	0.05	NC	500	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
o-Xylene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	0.006 U	0.005 U	0.005 U	0.006 U
Styrene	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC		0.004 J	ND	0.011 U	0.011 U	ND	0.007 J	0.05	0.002 J	ND	0.011 U	0.003 J	0.005 J	0.006 U	0.005 U	0.005 U	0.01
Toluene	0.7	NC	0.7	NC	500	NC		0.006 J	ND	0.011 U	0.001 J	ND	0.063 U	ND	0.011 U	ND	0.011 U	0.002 J	0.003 J	0.006 U	0.005 U	0.005 U	0.006 U
Total BTEX	NC	NC	NC	NC	NC	NC		0.013		0.011 U	0.001		0.063 U		0.006		0.011 U		0.013				
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC		---	---	---	---	---	---	---	---	---	---	---	---	0.006 U	0.005 U	0.005 U	0.006 U
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.006 U	0.005 U	0.005 U	0.006 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC		0.008 J	ND	0.011 U	0.002 J	0.017	**0.710**	0.1	0.036	0.006 J	0.004 J	0.023	0.092	0.006 U	0.005 U	0.005 U	0.006 U
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Chloride	0.02	NC	0.02	NC	13	NC		0.011 U	---	0.011 U	0.011 U	---	0.063 U	---	0.011 U	---	0.011 U	---	0.012 U	0.002 U	0.002 U	0.002 U	0.002 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC		---	ND	---	---	ND	---	0.004 J	---	ND	---	ND	---	0.006 U	---	---	0.006 U
Xylene (total)	0.26	NC	1.6	NC	500	NC		0.006 J	ND	0.011 U	0.011 U	ND	0.063 U	0.004 J	0.006 J	ND	0.011 U	ND	0.009 J	0.006 U	0.005 U	0.005 U	0.006 U

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
& - Value revised per laboratory data sheets presented in the Quantitative Environmental Survey dated April 1993. Value reported in October 20, 2014 RIR was incorrect.
^ - Value revised per laboratory data sheets presented in the Groundwater Investigation dated March 2000. Value reported in October 20, 2014 RIR was incorrect.

Table 3-1
VOC Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	Location	ITT-SBW-8	OBG-SB-1	OBG-SB-1	OBG-SB-2	OBG-SB-2	OBG-SB-3	OBG-SB-3	OBG-SB-4	OBG-SB-4	OBG-SB-5	OBG-SB-5	OBG-SB-6	OBG-SB-6	OBG-SB-7	OBG-SB-7	OBG-SB-8
							Sample Date:	4/12/1999	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004
							Sample ID:	SBW-8(8-9.1)	OBG-SB-1 (0-2)	OBG-SB-1 (9-10)	OBG-SB-2 (2-4)	OBG-SB-2 (9-10)	OBG-SB-3 (2-4)	OBG-SB-3 (7-9'	OBG-SB-4 (4-6')	OBG-SB-4 (9.5-10.5'	OBG-SB-5 (7.5-9)	OBG-SB-5 (9-10.5)	OBG-SB-6 (0-2)	OBG-SB-6 (8.5-10.5'	OBG-SB-7 (4-6)	OBG-SB-7 (8.5-10.5'	OBG-SB-8 (1.5-3)
							Start Depth (ft bgs):	8	0	9	2	9	2	7	4	9.5	7.5	9	0	8.5	4	8.5	1.5
							End Depth (ft bgs):	9.1	2	10	4	10	4	9	6	10.5	9	10.5	2	10.5	6	10.5	3
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC		0.005 U	0.001 J	0.17	0.003 U	0.021	0.003 U	0.022	0.001 J	0.006	0.003 U	0.013	0.003 U	0.005	0.002 J	0.01	0.004
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.0008 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC		0.005 U	0.003 U	0.007	0.003 U	0.003 U	0.003 U	0.0009 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 J	0.003	0.004
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC		0.005 U	0.003 U	**0.43**	0.003 U	0.028	0.003 U	0.069	0.001 J	0.011	0.003 U	0.021	0.003 U	0.004	0.003 U	0.013	0.001 J
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
2-Butanone	0.12	100	0.12	0.3	500	NC		0.026 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.013 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.037
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC		0.011 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC		0.011 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Acetone	0.05	NC	0.05	NC	500	NC		0.026 U	0.01 U	0.011 U	0.011 U #	0.011 U#	0.011 U	0.006 U #	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U #	**0.14**
Acrolein	NC	NC	NC	NC	NC	NC		0.021 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC		0.021 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC		0.0007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromobenzene	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromoform	NC	NC	NC	NC	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromomethane	NC	NC	NC	NC	NC	NC		0.005 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chloroethane	NC	NC	NC	1.9	NC	NC		0.005 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Chloroform	0.37	NC	0.37	NC	350	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chloromethane	NC	NC	NC	NC	NC	NC		0.005 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Methylene chloride	0.05	NC	0.05	NC	500	NC		0.005 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U #	0.006 U
o-Xylene	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Styrene	NC	NC	NC	NC	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC		0.005 U	0.003 U	0.025	0.003 U	0.001 J	0.001 J	0.015	0.015	0.008	0.003 U	0.003 U	0.003 U	0.003 U	0.0007 J	0.003 U	0.001 J
Toluene	0.7	NC	0.7	NC	500	NC		---	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Total BTEX	NC	NC	NC	NC	NC	NC			0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC		0.005 U	0.003 U	0.015	0.003 U	0.003	0.003 U	0.005	0.0009 J	0.001 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.0008 J	0.001 J
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC		0.005 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Chloride	0.02	NC	0.02	NC	13	NC		0.002 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 UJ	0.006 U	0.006 UJ
Xylene (m,p)	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylene (total)	0.26	NC	1.6	NC	500	NC		0.005 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
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Table 3-1
VOC Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	OBG-SB-8 8/31/2004 OBG-SB-8 (7-9) 7 9 N	OBG-SB-9 8/31/2004 OBG-SB-9 (2-4) 2 4 N	OBG-SB-9 8/31/2004 OBG-SB-9 (8-10) 8 10 N	OBG-SB-10 8/31/2004 OBG-SB-10 (4-6) 4 6 N	OBG-SB-10 8/31/2004 OBG-SB-10 (7-9) 7 9 N	OBG-SB-11 8/31/2004 OBG-SB-11 (9-10) 9 10 N	OBG-SB-11 8/31/2004 OBG-SB-11 (10-11) 10 11 N	OBG-SB-12 8/31/2004 OBG-SB-12 (4-5) 4 5 N	OBG-SB-12 8/31/2004 OBG-SB-12 (5-7) 5 7 N	OBG-SB-13 8/31/2004 OBG-SB-13 (7-8) 7 8 N	OBG-SB-13 8/31/2004 OBG-SB-13 (9.5-10.5 9.5 10.5 N	OBG-SB-14 8/31/2004 OBG-SB-14 (2-3) 2 3 N	OBG-SB-14 8/31/2004 OBG-SB-14 (9-10.5) 9 10.5 N	OBG-SB-15 8/31/2004 OBG-SB-15 (0-2) 0 2 N	OBG-SB-15 8/31/2004 OBG-SB-15 (8-9) 8 9 N	OBG-SB-16 9/1/2004 DUP-1_09012004 5 7.5 FD
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC	0.002 J	0.003	0.007	0.098	0.059	0.22	0.23	0.29	0.4	0.1	**0.71**	0.007	0.004	0.001 J	0.004	0.079
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 J	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC	0.007	0.001 J	0.008	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.001 J	0.004	0.007	0.004	0.003 U	0.005	0.074
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC	0.003 U	0.003 U	0.002 J	0.023	0.003	0.028	0.026	0.006 J	0.008	0.011	0.082	0.002 J	0.003 U	0.003 U	0.002 J	0.001 J
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
2-Butanone	0.12	100	0.12	0.3	500	NC	0.012 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.001 J	0.024 U	0.027 U	0.012 U	0.012 U	0.047	0.012 U	0.011 U	0.012 U	0.004 J
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.012 U	0.014 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.012 U	0.014 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Acetone	0.05	NC	0.05	NC	500	NC	0.012 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U #	0.024 U #	0.027 U #	0.012 U #	0.012 U #	**0.15**	0.012 U #	0.011 U	0.012 U	0.023 U #
Acrolein	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromobenzene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromoform	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromomethane	NC	NC	NC	NC	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.012 U	0.014 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.011	0.003 U	0.003 U	0.003 U	0.003 U
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chloroethane	NC	NC	NC	1.9	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.012 U	0.014 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Chloroform	0.37	NC	0.37	NC	350	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chloromethane	NC	NC	NC	NC	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.012 U	0.014 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.0006 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Methylene chloride	0.05	NC	0.05	NC	500	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U #	0.012 U #	0.014 U #	0.006 U #	0.006 U #	0.006 U	0.006 U	0.006 U	0.006 U	0.002 U #
o-Xylene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Styrene	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC	0.005	0.003 U	0.003 U	0.007	0.005	0.003 U	0.003 U	0.006 U	0.007 U	0.003 J	0.007	0.003 U	0.009	0.003 U	0.002 J	0.046
Toluene	0.7	NC	0.7	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Total BTEX	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.0096	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC	0.0006 J	0.003 U	0.003 U	0.002 J	0.0007 J	0.006	0.003	0.002 J	0.002 J	0.004	0.011	0.002 J	0.001 J	0.003 U	0.003 U	0.001 J
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Chloride	0.02	NC	0.02	NC	13	NC	0.006 UJ	0.006 UJ	0.006 UJ	0.006 UJ	0.005 UJ	0.006 UJ	0.006 U	0.012 U	0.014 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylene (total)	0.26	NC	1.6	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.007 U	0.003 U	0.006	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
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1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC	0.13	0.012	0.009	0.46	0.039	0.12	0.09 J $	0.62	0.002 J	0.02 J $	0.44	0.22	0.41	0.003	0.003	0.001 J
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 UJ $	0.003 U	0.003 U	0.003 U	0.003 U	0.003 UJ	0.003 U	0.003 U	0.003 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 J	0.002 J	0.003 U	0.001 J	0.005	0.003 U	0.003 J $	0.003 U	0.003 U	0.003 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC	0.11	0.002 J	0.003 U	0.11	0.039	0.041	0.0006 J	0.001 J	0.003 U	0.003 U	0.002 J	0.002 J	0.001 J	0.004	0.0008 J	0.009
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC	0.001 J	0.003 U	0.003 U	0.039	0.002 J	0.024	0.001 J	0.005	0.003 U	0.003 U	0.028	0.003 J	0.002 J	0.003 U	0.003 U	0.004
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC	0.003 U	0.003 U	0.003 U	0.001 J	0.005	0.004	0.003 U	0.0007 J	0.003 U	0.003 U	0.001 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
2-Butanone	0.12	100	0.12	0.3	500	NC	0.002 J	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.013 U	0.025	0.011 U	0.076
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Acetone	0.05	NC	0.05	NC	500	NC	0.013 U #	0.011 U #	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U #	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.013 U	**0.093**	0.011 U	**0.2**
Acrolein	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromobenzene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromoform	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Bromomethane	NC	NC	NC	NC	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.005
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chloroethane	NC	NC	NC	1.9	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.002 J
Chloroform	0.37	NC	0.37	NC	350	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chloromethane	NC	NC	NC	NC	NC	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Methylene chloride	0.05	NC	0.05	NC	500	NC	0.006 U #	0.006 U	0.006 U	0.006 U #	0.006 U #	0.005 U #	0.006 U #	0.006 U #	0.006 U	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U #
o-Xylene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Styrene	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC	0.075	0.009	0.013	0.02	0.008	0.01	0.029 J $	0.1	0.003 J	0.021 J $	0.2	0.085	0.45	0.001 J	0.002 J	0.001 J
Toluene	0.7	NC	0.7	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.005	0.003 U	0.003 U	0.003 U	0.002 J	0.003 J	0.003 U	0.003 U	0.003 U
Total BTEX	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.016	0.003 U	0.003 U	0.003 U	0.007	0.008	0.003 U	0.003 U	0.003 U
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC	0.002 J	0.003 U	0.003 U	0.005	0.003 J	0.008	0.003	0.015	0.003 U	0.002 J	0.016	0.006	0.02	0.003 U	0.003 U	0.002 J
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Chloride	0.02	NC	0.02	NC	13	NC	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.005 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylene (total)	0.26	NC	1.6	NC	500	NC	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.009	0.003 U	0.003 U	0.003 U	0.005	0.005	0.003 U	0.003 U	0.003 U

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
& - Value revised per laboratory data sheets presented in the Quantitative Environmental Survey dated April 1993. Value reported in October 20, 2014 RIR was incorrect.
^ - Value revised per laboratory data sheets presented in the Groundwater Investigation dated March 2000. Value reported in October 20, 2014 RIR was incorrect.

Table 3-1
VOC Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	Location	OBG-SB-23	OBG-SB-24	OBG-SB-24	OBG-SB-25	OBG-SB-25	OBG-SB-26	OBG-SB-26	OBG-SB-27	OBG-SB-27	OBG-SB-28	OBG-SB-28	OBG-SB-28	OBG-SB-29	SB-1	SB-2	SB-3
							Sample Date:	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/2/2004	9/1/2004	9/2/2004	10/22/1991	10/22/1991	10/24/1991
							Sample ID:	OBG-SB-23 (6-7)	OBG-SB-24 (1-2)	OBG-SB-24 (8-9)	OBG-SB-25 (4-6)	OBG-SB-25 (6-8)	OBG-SB-26 (0.5-1.5)	OBG-SB-26 (4-5)	OBG-SB-27 (1-2)	OBG-SB-27 (6.5-7.5)	OBG-SB-28 (1-2)	OBG-SB-29 (2-4)	OBG-SB-28 (10-11)	OBG-SB-29 (5-6.5)	SB-1_10-23-04	SB-2_10-23-04	SB-3 (1-2)10-24-91
							Start Depth (ft bgs):	6	1	8	4	6	0.5	4	1	6.5	1	2	10	5	0.5	0.5	1
							End Depth (ft bgs):	7	2	9	6	8	1.5	5	2	7.5	2	4	11	6.5	1	1	2
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC		0.023	0.0008 J	0.12	0.001 J	0.003 J	0.001 J	0.002 J	0.003 U	0.004	0.003 U	0.032	0.016	0.021	0.006 U	0.006 U	0.053
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 UJ	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC		0.002 J	0.01	0.005 J $	0.001 J	0.002 J	0.001 J	0.001 J	0.004	0.001 J	0.003	0.0008 J	0.003	0.003 U	0.006 U	0.006 U	0.006 U
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC		0.001 J	0.006	0.002 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.002 J	0.0008 J	0.002 J	0.006 U	0.006 U	0.006 U
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	0.006 U	0.006 U	0.006 U
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
2-Butanone	0.12	100	0.12	0.3	500	NC		0.011 U	0.041	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.005 J	0.012 U	0.009 J	0.012 U	0.011 U	0.011 U	0.013 U	0.013 U	0.003 J
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC		0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.013 U	0.013 U	0.012 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC		0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.013 U	0.013 U	0.012 U
Acetone	0.05	NC	0.05	NC	500	NC		0.011 U	**0.12**	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U #	0.012 U	0.012 U #	0.012 U #	0.011 U #	0.011 U #	0.004 BJ	0.004 BJ	0.002 B
Acrolein	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC		0.003 U	0.003 U	0.0008 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Bromobenzene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Bromoform	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Bromomethane	NC	NC	NC	NC	NC	NC		0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.013 U	0.013 U	0.012 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC		0.003 U	0.002 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 J	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Chloroethane	NC	NC	NC	1.9	NC	NC		0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.013 U	0.013 U	0.012 U
Chloroform	0.37	NC	0.37	NC	350	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Chloromethane	NC	NC	NC	NC	NC	NC		0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.013 U	0.013 U	0.012 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	---	---	---
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.002 J
Methylene chloride	0.05	NC	0.05	NC	500	NC		0.006 U #	0.006 U #	0.006 U	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U #	0.006 U	0.003 BJ	0.002 BJ	0.002 BJ
o-Xylene	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Styrene	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC		0.004	0.0006 J	0.076	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.002 J	0.003 U	0.003 U	0.008	0.003 U	0.006 U	0.006 U	0.004 J
Toluene	0.7	NC	0.7	NC	500	NC		0.003 U	0.003 U	0.002 J	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.004 J
Total BTEX	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.0028	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.020
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	---	---	---
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.006 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC		0.001 J	0.001 J	0.01	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.002 J	0.0007 J	0.003 U	0.006 U	0.006 U	0.006 U
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	0.013 U	0.013 U	0.012 U
Vinyl Chloride	0.02	NC	0.02	NC	13	NC		0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.013 U	0.013 U	0.012 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylene (total)	0.26	NC	1.6	NC	500	NC		0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	0.006 U	0.014

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
& - Value revised per laboratory data sheets presented in the Quantitative Environmental Survey dated April 1993. Value reported in October 20, 2014 RIR was incorrect.
^ - Value revised per laboratory data sheets presented in the Groundwater Investigation dated March 2000. Value reported in October 20, 2014 RIR was incorrect.

Table 3-1
VOC Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

Analyte	Part 375 Unrestricted Use SCOs[1]	NY CP-51 Residential Use SCOs[2]	Part 375 Protection of Groundwater SCOs[3]	NY CP-51 Protection of Groundwater SCOs[4]	Part 375 Commercial Use SCOs[5]	NY CP-51 Commercial Use SCOs[4]	SB-3 10/24/1991 SB-3 (5-7)10-24-91 5 7 N	SB-4 10/24/1991 SB-4 (1-2)10-24-91 1 2 N	SB-5 10/24/1991 SB-5 (1-2)10-24-91 1 2 N	SB-6 10/24/1991 SB-6 (1-2)10-24-91 1 2 N	SB-7 10/23/1991 SB-7_10-23-91 0.5 1 N	SB-8 10/23/1991 SB-8_10-23-91 1 2 N	SB-9 11/13/1991 SB-9_11-13-91 2 3 N	SB-10 10/23/1991 SB-10_10-23-91 2 3 N	SS-1 7/28/1998 SS-1 7/28/98 0 0.17 N	SS-2 7/28/1998 SS-2 7/28/98 0 0.17 N	TD-1 9/3/2004 TD-1 0 0.5 N
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
1,1,1-Trichloroethane	0.68	NC	0.68	NC	500	NC	0.006 U	0.230	0.006 U	0.006 U	0.006 U	0.003 J	0.006 U	**1.000 &**	0.010 U	0.011 U	0.003 J
1,1,2,2-Tetrachloroethane	NC	35	NC	0.6	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
1,1,2-Trichloroethane	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
1,1-Dichloroethane	0.27	NC	0.27	NC	240	NC	0.006 U	0.021	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.066	0.010 U	0.011 U	0.003 U
1,1-Dichloroethylene	0.33	NC	0.33	NC	500	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.017 J	0.010 U	0.011 U	0.009
1,2,3-Trichloropropane	NC	80	NC	0.34	NC	NC	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
1,2-Dibromoethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
1,2-Dichloroethane	0.02	NC	0.02	NC	30	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.003 J	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
1,2-Dichloroethene	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	---
1,2-Dichloropropane	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
2-Butanone	0.12	100	0.12	0.3	500	NC	0.012 U	0.015 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.065 U	0.010 U	0.011 U	0.011 U
2-Chloroethyl vinyl ether	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
2-Chlorotoluene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
2-Hexanone	NC	NC	NC	NC	NC	NC	0.012 U	0.015 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.065 U	0.010 U	0.011 U	0.005 U
4-Chlorotoluene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	NC	NC	NC	1	NC	NC	0.012 U	0.015 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.065 U	---	---	0.005 U
Acetone	0.05	NC	0.05	NC	500	NC	0.002 BJ	0.004 BJ	0.012 U	0.012 U	0.005 BJ	0.006 BJ	0.012 U	0.021 BJ	0.010 U	0.011 U	0.011 U #
Acrolein	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
Acrylonitrile	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
Benzene	0.06	NC	0.06	NC	44	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Bromobenzene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
Bromodichloromethane	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Bromoform	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Bromomethane	NC	NC	NC	NC	NC	NC	0.012 U	0.015 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.065 U	0.010 U	0.011 U	0.005 U
Carbon Disulfide	NC	100	NC	2.7	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Carbon Tetrachloride	0.76	NC	0.76	NC	22	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Chlorobenzene	1.1	NC	1.1	NC	500	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Chloroethane	NC	NC	NC	1.9	NC	NC	0.012 U	0.015 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.065 U	0.010 U	0.011 U	0.005 U
Chloroform	0.37	NC	0.37	NC	350	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.002 J	0.032 U	0.010 U	0.011 U	0.003 U
Chloromethane	NC	NC	NC	NC	NC	NC	0.012 U	0.015 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.065 U	0.010 U	0.011 U	0.005 U
cis-1,2-Dichloroethylene	0.25	NC	0.25	NC	500	NC	---	---	---	---	---	---	---	---	---	---	0.003 U
cis-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Dibromochloromethane	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Dichlorodifluoromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	1	NC	1	NC	390	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.057
Methylene chloride	0.05	NC	0.05	NC	500	NC	0.002 BJ	0.002 BJ	0.002 BJ	0.002 BJ	0.002 BJ	0.002 BJ	0.002 BJ	0.010 BJ	0.031	0.019	0.005 U
o-Xylene	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
Styrene	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Tetrachloroethene	1.3	NC	1.3	NC	150	NC	0.006 U	0.110	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 J	0.010 U	0.011 U	0.003
Toluene	0.7	NC	0.7	NC	500	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Total BTEX	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.257
trans-1,2-Dichloroethylene	0.19	NC	0.19	NC	500	NC	---	---	---	---	---	---	---	---	---	---	0.003 U
trans-1,3-Dichloropropylene	NC	NC	NC	NC	NC	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.003 U
Trichloroethylene	0.47	NC	0.47	NC	200	NC	0.006 U	0.007 J	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.004
Trichlorofluoromethane	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
Vinyl Acetate	NC	NC	NC	NC	NC	NC	0.012 U	0.015 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.065 U	---	---	---
Vinyl Chloride	0.02	NC	0.02	NC	13	NC	0.012 U	0.015 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.065 U	0.010 U	0.011 U	0.005 U
Xylene (m,p)	NC	NC	NC	NC	NC	NC	---	---	---	---	---	---	---	---	---	---	---
Xylene (total)	0.26	NC	1.6	NC	500	NC	0.006 U	0.008 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.032 U	0.010 U	0.011 U	0.2

Notes:
All units in micrograms per kilogram (µg/kg)
Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
- Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
Exceeds 6 NYCRR Part 375 or CP-51 Commercial Soil Cleanup Objectives
ft bgs - feet below ground surface
NC - No criteria exists, NA - Not available
Sample Type Code: N - Normal, FD - Field Duplicate
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank, ND - Not Detected
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.
- Value qualified with a U per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
$ - Value qualified with a J per validation report dated March 6, 2006. Value reported in October 20, 2014 RIR did not reflect this qualifier.
& - Value revised per laboratory data sheets presented in the Quantitative Environmental Survey dated April 1993. Value reported in October 20, 2014 RIR was incorrect.
^ - Value revised per laboratory data sheets presented in the Groundwater Investigation dated March 2000. Value reported in October 20, 2014 RIR was incorrect.

Table 3-2
1,4-Dioxane Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

							Location:	**APC2-1**	**APC2-2**	**APC3-1**	**APC3-2**	**BH-99-1**	**BH-99-2**	**BH-99-3**	**BH-99-4**	**BH-99-5**	**BH-99-6**
							Sample Date:	10/23/1991	10/23/1991	10/23/1991	10/23/1991	4/12/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999
							Sample ID:	APC2-1	APC2-2	APC3-1	APC3-2	BH-99-1(6-6.9)	BH-99-2 (6-7)	BH-99-3 (6-7)	BH-99-4 (6-8)	BH-99-5 (6-8)	BH-99-6 (6-8)
							Start Depth (ft bgs):	6	6	6	6	6	6	6	6	6	6
							End Depth (ft bgs):	8	8	8	8	6.9	7	7	8	8	8
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**										
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	**4.100**	0.027	**0.110**	0.068	---	**---**	**---**	**---**	---	**---**
8260	1,4-Dioxane							**---**	---	**---**	---	NA	**7.2 E**	**0.6**	**0.13**	0.74 E	**1.6 E**
8270	1,4-Dioxane							**---**	---	**---**	---	---	**---**	**---**	**---**	---	**---**

							Location:	**BH-99-7**	**BH-99-7**	**BH-99-8**	**BH-99-8**	**BH-99-9**	**BH-99-10**	**BH-99-10**	**BH-99-11B**	**BH-99-12**	**BH-99-13**
							Sample Date:	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999
							Sample ID:	BH-99-7 (2-4)	BH-99-7 (6-8)	BH-99-8 (3-4)	BH-99-8 (8-10)	BH-99-9 (4-6)	BH-99-10 (6-8)	BH-99-10 (8-10)	BH-99-11B (5-7)	BH-99-12 (6-8)	BH-99-13 (8-10)
							Start Depth (ft bgs):	2	6	3	8	4	6	8	5	6	8
							End Depth (ft bgs):	4	8	4	10	6	8	10	7	8	10
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**										
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	**---**	**---**	**---**	---	**---**	**---**	**---**	**---**	**---**	**---**
8260	1,4-Dioxane							**19.000 E**	**2.700 E**	**0.760**	0.230 U	**22.000 E**	**0.440**	**0.260**	**0.700 E**	**1.500 E**	**1.500**
8270	1,4-Dioxane							**---**	**---**	**---**	---	**---**	**---**	**---**	**---**	**---**	**---**

							Location:	**BH-99-14A/B**	**BH-99-15**	**BH-99-16**	**BH-99-17**	**BH-99-18**	**BH-99-19**	**BH-99-19**	**BH-99-20**	**BH-99-21**	**BH-99-22**
							Sample Date:	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/15/1999	9/16/1999	9/16/1999	9/16/1999
							Sample ID:	BH-99-14A (4-6)	BH-99-15 (4-6)	BH-99-16 (4-6)	BH-99-17 (7-9)	BH-99-18 (6-8)	BH-99-19 (4-6)	BH-99-19 (6-8)	BH-99-20 (4-6)	BH-99-21 (2-4)	BH-99-22 (4-6)
							Start Depth (ft bgs):	4	4	4	7	6	4	6	4	2	4
							End Depth (ft bgs):	6	6	6	9	8	6	8	6	4	6
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**										
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	**---**	---	---	**---**	**---**	**---**	---	---	**---**	**---**
8260	1,4-Dioxane							**0.540**	0.700 U	0.250 U	**9.300 E**	**13.000 E**	**17.000 E**	14.000 U	0.100	**0.500**	**6.900 E**
8270	1,4-Dioxane							**---**	---	---	**---**	**---**	**---**	---	---	**---**	**---**

Notes:

All units in milligrams per kilogram (mg/kg)

Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives

[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives

6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.

NC - No criteria exists, NA - Not Available

Sample Type Code: N - Normal, FD - Field Duplicate

ft bgs - feet below ground surface

U - Not Detected at the Detection Limit shown

J - Esimated Value

E - Exceeds calibration range and is estimated in value.

--- Not Analyzed

[1] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.

[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.

[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Grounwater, December 14, 2006.

[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.

[5] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.

[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

Table 3-2
1,4-Dioxane Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

								Location:	**BH-99-23**	**BH-99-25**	**BH-99-26**	**BH-99-27**	**BH-99-28**	**BH-99-29**	**BH-99-30**	**BH-99-31**	**BH-99-31**	**BH-99-32**
								Sample Date:	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999	9/16/1999
								Sample ID:	BH-99-23 (8-10)	BH-99-25 (4-6)	BH-99-26 (4-6)	BH-99-27 (4-6)	BH-99-28 (4-6)	BH-99-29 (6-7)	BH-99-30 (6-7)	BH-99-31 (1-4)	BH-99-31 (4-6)	BH-99-32 (1-4)
								Start Depth (ft bgs):	8	4	4	4	4	6	6	1	4	1
								End Depth (ft bgs):	10	6	6	6	6	7	7	4	6	4
								Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**												
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC		---	---	---	---	---	---	---	---	---	---
8260	1,4-Dioxane								**7.9 E**	**49 E**	**130 E**	**84 E**	**4.1 E**	**0.15**	**0.69**	**17 E**	**11 E**	0.095 U
8270	1,4-Dioxane								---	---	---	---	---	---	---	---	---	---

								Location:	**BH-99-33**	**BH-99-34**	**BH-99-35**	**BH-99-36A**	**BH-99-37**	**BH-99-38**	**BH-99-39**	**BH-99-40B**	**BH-99-41**	**BH-99-42**
								Sample Date:	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999	10/1/1999
								Sample ID:	BH-99-33 (1-2)	BH-99-34 (2-4)	BH-99-35 (4-6)	BH-99-36 (4-6)	BH-99-37 (6-8)	BH-99-38 (6-8)	BH-99-39 (6-8)	BH-99-40B (8-10)	BH-99-41 (8-10)	BH-99-42 (4-6)
								Start Depth (ft bgs):	1	2	4	4	6	6	6	8	8	4
								End Depth (ft bgs):	2	4	6	6	8	8	8	10	10	6
								Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**												
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC		---	---	---	---	---	---	---	---	---	---
8260	1,4-Dioxane								**54.000 E**	**0.340**	**0.550**	**0.600**	**0.220**	**1.700**	0.096 U	**2.200**	**3.200**	0.098 U
8270	1,4-Dioxane								---	---	---	---	---	---	---	---	---	---

								Location:	**BH-99-43**	**BH-99-44**	**BH-99-45**	**BH-99-46**	**CS-1**	**CS-2**	**CS-3**	**CS-4**	**CS-5**	**ITT-MW-1**
								Sample Date:	10/1/1999	10/1/1999	10/1/1999	10/1/1999	11/23/1999	11/23/1999	11/23/1999	11/24/1999	11/24/1999	10/23/1991
								Sample ID:	BH-99-43 (8-10)	BH-99-44 (8-10)	BH-99-45 (6-8)	BH-99-46 (6-8)						MW-1(SOIL)10-23-91
								Start Depth (ft bgs):	8	8	6	6	7	6.5	7.5	7	9	8
								End Depth (ft bgs):	10	10	8	8	7	6.5	7.5	7	9	10
								Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**												
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC		---	---	---	---	---	---	---	---	---	0.005 U
8260	1,4-Dioxane								**0.450**	0.260 U	**2.200**	**1.500**	**0.380**	0.10	**2.100**	0.062 U	**0.130**	---
8270	1,4-Dioxane								---	---	---	---	---	---	---	---	---	---

Notes:

All units in milligrams per kilogram (mg/kg)

Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives

[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives

6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.

NC - No criteria exists, NA - Not Available

Sample Type Code: N - Normal, FD - Field Duplicate

ft bgs - feet below ground surface

U - Not Detected at the Detection Limit shown

J - Esimated Value

E - Exceeds calibration range and is estimated in value.

--- Not Analyzed

[1] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.

[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.

[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Grounwater, December 14, 2006.

[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.

[5] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.

[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

Table 3-2
1,4-Dioxane Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

							Location:	**ITT-MW-2**	**ITT-MW-3**	**ITT-MW-4**	**ITT-MW-4**	**ITT-SBW-8**	**OBG-SB-1**	**OBG-SB-2**	**OBG-SB-2**	**OBG-SB-3**	**OBG-SB-3**
							Sample Date:	10/23/1991	10/23/1991	10/24/1991	10/24/1991	4/12/1999	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/30/2004
							Sample ID:	MW-2(SOIL)10-23-91	MW-3(SOIL)10-23-91	MW-4 (1-2)10-24-91	MW-4 (6-8)10-24-91	SBW-8(8-9.1)	OBG-SB-1 (9-10)	OBG-SB-2 (2-4)	OBG-SB-2 (9-10)	OBG-SB-3 (2-4)	OBG-SB-3 (7-9'
							Start Depth (ft bgs):	6	4	1	6	8	9	2	9	2	7
							End Depth (ft bgs):	8	6	2	8	9.1	10	4	10	4	9
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**										
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	**170.000**	0.071	0.054	**0.850**	---	---	---	---	---	---
8260	1,4-Dioxane							**---**	---	---	**---**	---	---	---	---	---	---
8270	1,4-Dioxane							**---**	---	---	**---**	---	0.380 U	0.370 U	0.380 U	0.380 U	0.420 U

							Location:	**OBG-SB-4**	**OBG-SB-4**	**OBG-SB-5**	**OBG-SB-5**	**OBG-SB-6**	**OBG-SB-6**	**OBG-SB-7**	**OBG-SB-7**	**OBG-SB-8**	**OBG-SB-8**
							Sample Date:	8/30/2004	8/30/2004	8/30/2004	8/30/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004
							Sample ID:	OBG-SB-4 (4-6')	OBG-SB-4 (9.5-10.5')	OBG-SB-5 (7.5-9)	OBG-SB-5 (9-10.5)	OBG-SB-6 (0-2)	OBG-SB-6 (8.5-10.5)	OBG-SB-7 (4-6)	OBG-SB-7 (8.5-10.5)	OBG-SB-8 (1.5-3)	OBG-SB-8 (7-9)
							Start Depth (ft bgs):	4	9.5	7.5	9	0	8.5	4	8.5	1.5	7
							End Depth (ft bgs):	6	10.5	9	10.5	2	10.5	6	10.5	3	9
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**										
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	---	---	---	---	---	---	---	---	---	**---**
8260	1,4-Dioxane							---	---	---	---	---	---	---	---	---	**---**
8270	1,4-Dioxane							0.380 U	0.380 U	0.410 U	0.370 U	0.390 U	0.360 U	0.400 U	0.380 U	0.380 U	**0.110 J**

							Location:	**OBG-SB-9**	**OBG-SB-9**	**OBG-SB-10**	**OBG-SB-10**	**OBG-SB-11**	**OBG-SB-11**	**OBG-SB-12**	**OBG-SB-12**	**OBG-SB-13**	**OBG-SB-13**
							Sample Date:	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004	8/31/2004
							Sample ID:	OBG-SB-9 (2-4)	OBG-SB-9 (8-10)	OBG-SB-10 (4-6)	OBG-SB-10 (7-9)	OBG-SB-11 (10-11)	OBG-SB-11 (9-10)	OBG-SB-12 (4-5)	OBG-SB-12 (5-7)	OBG-SB-13 (7-8)	OBG-SB-13 (9.5-10.5)
							Start Depth (ft bgs):	2	8	4	7	10	9	4	5	7	9.5
							End Depth (ft bgs):	4	10	6	9	11	10	5	7	8	10.5
							Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**										
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	---	---	---	---	---	---	---	---	---	---
8260	1,4-Dioxane							---	---	---	---	---	---	---	---	---	---
8270	1,4-Dioxane							0.390 U	0.380 U	0.380 U	0.370 U	0.380 U	0.370 U	0.400 U	0.370 U	0.390 U	0.390 U

Notes:

All units in milligrams per kilogram (mg/kg)

Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives

[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives

6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.

NC - No criteria exists, NA - Not Available

Sample Type Code: N - Normal, FD - Field Duplicate

ft bgs - feet below ground surface

U - Not Detected at the Detection Limit shown

J - Esimated Value

E - Exceeds calibration range and is estimated in value.

--- Not Analyzed

[1] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.

[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.

[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Grounwater, December 14, 2006.

[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.

[5] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.

[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

Table 3-2
1,4-Dioxane Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

								Location:	**OBG-SB-14**	**OBG-SB-14**	**OBG-SB-15**	**OBG-SB-15**	**OBG-SB-16**	**OBG-SB-16**	**OBG-SB-16**	**OBG-SB-17**	**OBG-SB-17**	**OBG-SB-18**
								Sample Date:	8/31/2004	8/31/2004	8/31/2004	8/31/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004
								Sample ID:	OBG-SB-14 (2-3)	OBG-SB-14 (9-10.5)	OBG-SB-15 (0-2)	OBG-SB-15 (8-9)	DUP-1_09012004	OBG-SB-16 (5-7.5)	OBG-SB-16 (7.5-9)	OBG-SB-17 (4-7)	OBG-SB-17 (8-9)	OBG-SB-18 (6-7)
								Start Depth (ft bgs):	2	9	0	8	5	5	7.5	4	8	6
								End Depth (ft bgs):	3	10.5	2	9	7.5	7.5	9	7	9	7
								Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**												
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC		---	---	---	---	---	---	---	---	---	---	**---**
8260	1,4-Dioxane								---	---	---	---	---	---	---	---	---	---	**---**
8270	1,4-Dioxane								0.390 U	0.390 U	0.360 U	0.390 U	0.400 U	0.410 U	0.370 U	0.390 U	0.370 U	**0.69**

								Location:	**OBG-SB-18**	**OBG-SB-19**	**OBG-SB-19**	**OBG-SB-20**	**OBG-SB-20**	**OBG-SB-20**	**OBG-SB-21**	**OBG-SB-21**	**OBG-SB-22**	**OBG-SB-22**
								Sample Date:	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004
								Sample ID:	OBG-SB-18 (7-9.5)	OBG-SB-19 (4-7)	OBG-SB-19 (8.5-10)	DUP-2_09012004	OBG-SB-20 (2-4)	OBG-SB-20 (6-7)	OBG-SB-21 (4-6)	OBG-SB-21 (9-10)	OBG-SB-22 (1-2)	OBG-SB-22 (6-7)
								Start Depth (ft bgs):	7	4	8.5	2	2	6	4	9	1	6
								End Depth (ft bgs):	9.5	7	10	4	4	7	6	10	2	7
								Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**												
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC		---	---	---	**---**	**---**	**---**	---	---	---	---
8260	1,4-Dioxane								---	---	---	**---**	**---**	**---**	---	---	---	---
8270	1,4-Dioxane								0.360 U	0.370 U	0.380 U	**0.930 J**	**0.170 J**	**0.600**	0.039 J	0.430 U	0.380 U	0.380 U

								Location:	**OBG-SB-23**	**OBG-SB-23**	**OBG-SB-24**	**OBG-SB-24**	**OBG-SB-25**	**OBG-SB-25**	**OBG-SB-26**	**OBG-SB-26**	**OBG-SB-27**	**OBG-SB-27**
								Sample Date:	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004	9/1/2004
								Sample ID:	OBG-SB-23 (1-2)	OBG-SB-23 (6-7)	OBG-SB-24 (1-2)	OBG-SB-24 (8-9)	OBG-SB-25 (4-6)	OBG-SB-25 (6-8)	OBG-SB-26 (0.5-1.5)	OBG-SB-26 (4-5)	OBG-SB-27 (1-2)	OBG-SB-27 (6.5-7.5)
								Start Depth (ft bgs):	1	6	1	8	4	6	0.5	4	1	6.5
								End Depth (ft bgs):	2	7	2	9	6	8	1.5	5	2	7.5
								Sample Type Code:	N	N	N	N	N	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**												
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC		---	---	---	---	---	---	---	---	---	---
8260	1,4-Dioxane								---	---	---	---	---	---	---	---	---	---
8270	1,4-Dioxane								0.380 U	0.380 U	0.380 U	0.420 U	0.380 U	0.380 U	0.390 U	0.390 U	0.380 U	0.380 U

Notes:

All units in milligrams per kilogram (mg/kg)

Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives

[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives

6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.

NC - No criteria exists, NA - Not Available

Sample Type Code: N - Normal, FD - Field Duplicate

ft bgs - feet below ground surface

U - Not Detected at the Detection Limit shown

J - Esimated Value

E - Exceeds calibration range and is estimated in value.

--- Not Analyzed

[1] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.

[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.

[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Grounwater, December 14, 2006.

[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.

[5] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.

[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

Table 3-2
1,4-Dioxane Analytical Results for Soil Samples at the Former RFM Site
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

							Location:	**OBG-SB-28**	**OBG-SB-28**	**SB-1**	**SB-2**	**SB-3**
							Sample Date:	9/1/2004	9/1/2004	10/22/1991	10/22/1991	10/24/1991
							Sample ID:	OBG-SB-28 (1-2)	OBG-SB-28 (10-11)	SB-1_10-22-91	SB-2_10-22-91	SB-3 (1-2)10-24-91
							Start Depth (ft bgs):	1	10	0.5	0.5	1
							End Depth (ft bgs):	2	11	1	1	2
							Sample Type Code:	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**					
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	---	---	0.005 U	0.005 U	**0.2800**
8260	1,4-Dioxane							---	---	---	---	**---**
8270	1,4-Dioxane							0.390 U	0.370 U	---	---	**---**

							Location:	**SB-3**	**SB-4**	**SB-5**	**SB-6**	**SB-7**
							Sample Date:	10/24/1991	10/24/1991	10/24/1991	10/24/1991	10/23/1991
							Sample ID:	SB-3 (5-7)10-24-91	SB-4 (1-2)10-24-91	SB-5 (1-2)10-24-91	SB-6 (1-2)10-24-91	SB-7_10-23-91
							Start Depth (ft bgs):	5	1	1	1	0.5
							End Depth (ft bgs):	7	2	2	2	1
							Sample Type Code:	N	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**					
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	**2.300**	**3.900**	0.005 U	**0.690**	0.005 U
8260	1,4-Dioxane							**---**	**---**	---	**---**	---
8270	1,4-Dioxane							**---**	**---**	---	**---**	---

							Location:	**SB-8**	**SB-9**	**SB-10**	**TD-1**
							Sample Date:	10/23/1991	11/13/1991	10/23/1991	9/3/2004
							Sample ID:	SB-8_10-23-91	SB-9_11-13-91	SB-10_10-23-91	TD-1
							Start Depth (ft bgs):	1	2	2	0
							End Depth (ft bgs):	2	3	3	0.5
							Sample Type Code:	N	N	N	N
USEPA Method	**Analyte**	**Part 375 Unrestricted Use SCOs[1]**	**NY CP-51 Residential Use SCOs[2]**	**Part 375 Protection of Groundwater SCOs[3]**	**NY CP-51 Protection of Groundwater SCOs[4]**	**Part 375 Commercial Use SCOs[5]**	**NY CP-51 Commercial Use SCOs[6]**				
8240	1,4-Dioxane	0.1	NC	0.1	NC	130	NC	**39.000**	0.014	**0.380**	---
8260	1,4-Dioxane							**---**	---	**---**	---
8270	1,4-Dioxane							**---**	---	**---**	0.350 U

Notes:

All units in milligrams per kilogram (mg/kg)

Bold - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives

- Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives

6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.

NC - No criteria exists, NA - Not Available

Sample Type Code: N - Normal, FD - Field Duplicate

ft bgs - feet below ground surface

U - Not Detected at the Detection Limit shown

J - Esimated Value

E - Exceeds calibration range and is estimated in value.

--- Not Analyzed

[1] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.

[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.

[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Grounwater, December 14, 2006.

[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.

[5] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.

[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

FIGURES

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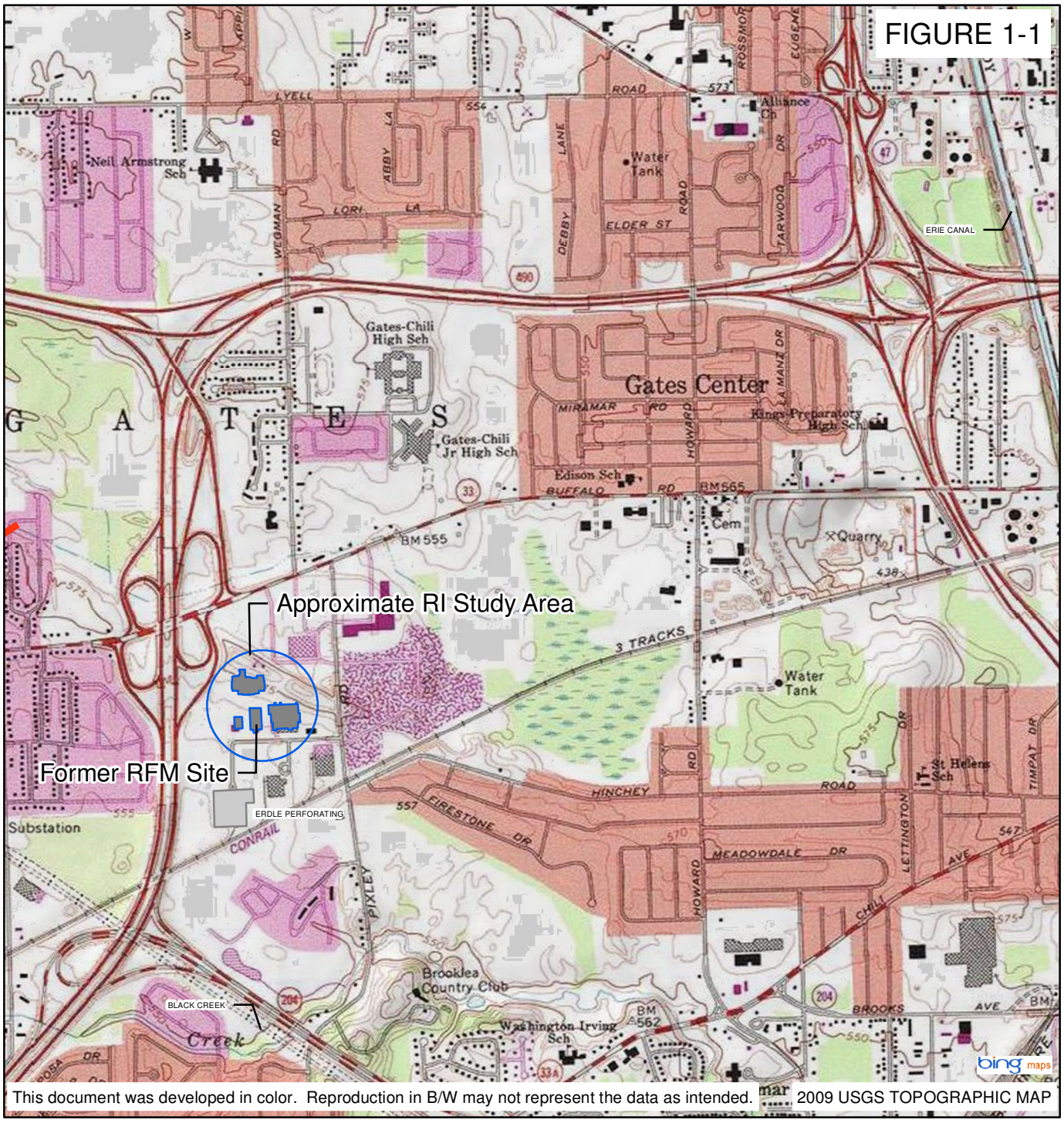
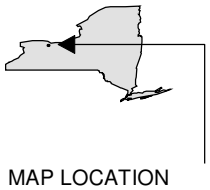
FIGURE 1-1



This document was developed in color. Reproduction in B/W may not represent the data as intended. 2009 USGS TOPOGRAPHIC MAP

ADAPTED FROM: (BING) USGS ROCHESTER WEST QUADRANGLE

FORMER ITT ROCHESTER FORM MACHINE FACILITY
TOWN OF GATES, NEW YORK
SITE #8-28-112



MAP LOCATION

N

SITE LOCATION

0 1,000 2,000 4,000 6,000 8,000

Feet

MAY 2012
3356.35273

1:24,000

O'BRIEN & GERE

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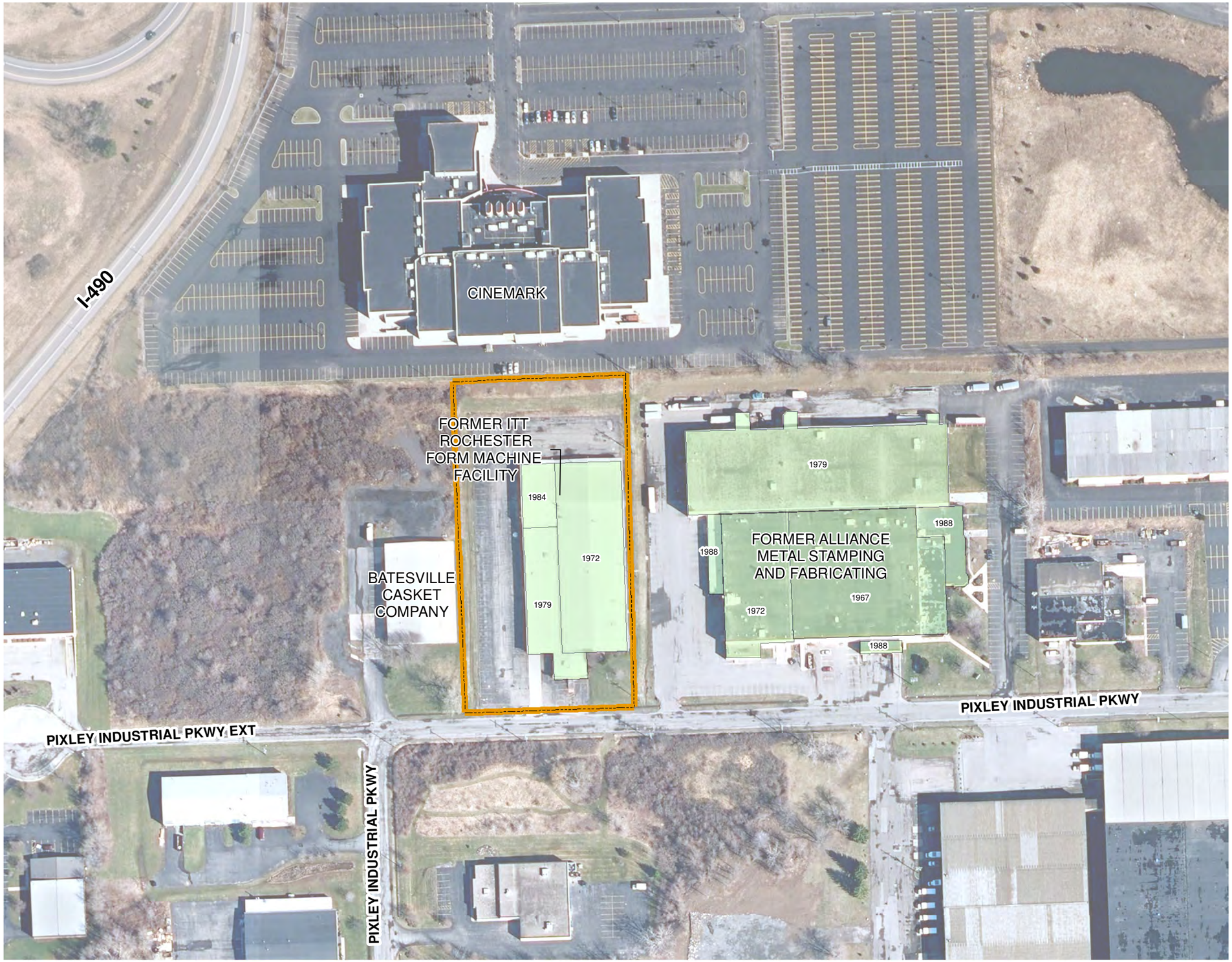

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AERIAL IMAGERY PROVIDED BY NYS GIS CLEARINGHOUSE, DATE APRIL 2009

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FIGURE 1-2

N

LEGEND

- FACILITY ADDITIONS
  YEAR OF ADDITION
- PROPERTY LINE

NOTE:

ADDITIONS TO THE ORIGINAL AMSF FACILITY FOOTPRINT WERE APPROXIMATELY DEFINED USING BUILDING PLANS OBTAINED IN THE GEOSERVICES 1992 BASELINE ENVIRONMENTAL CHARACTERIZATION OF THE AMSF PROPERTY, FIGURE 2.

ADDITIONS TO THE ORIGINAL RFM FACILITY FOOTPRINT WERE APPROXIMATELY DEFINED USING BUILDING PLANS OBTAINED FROM HISTORIC SITE DRAWINGS.

FORMER ITT ROCHESTER FORM MACHINE FACILITY
TOWN OF GATES, NEW YORK
SITE #8-28-112

SITE PLAN

0 75 150 300
Feet

SEPTEMBER 2014
3356.35273

O'BRIEN & GERE

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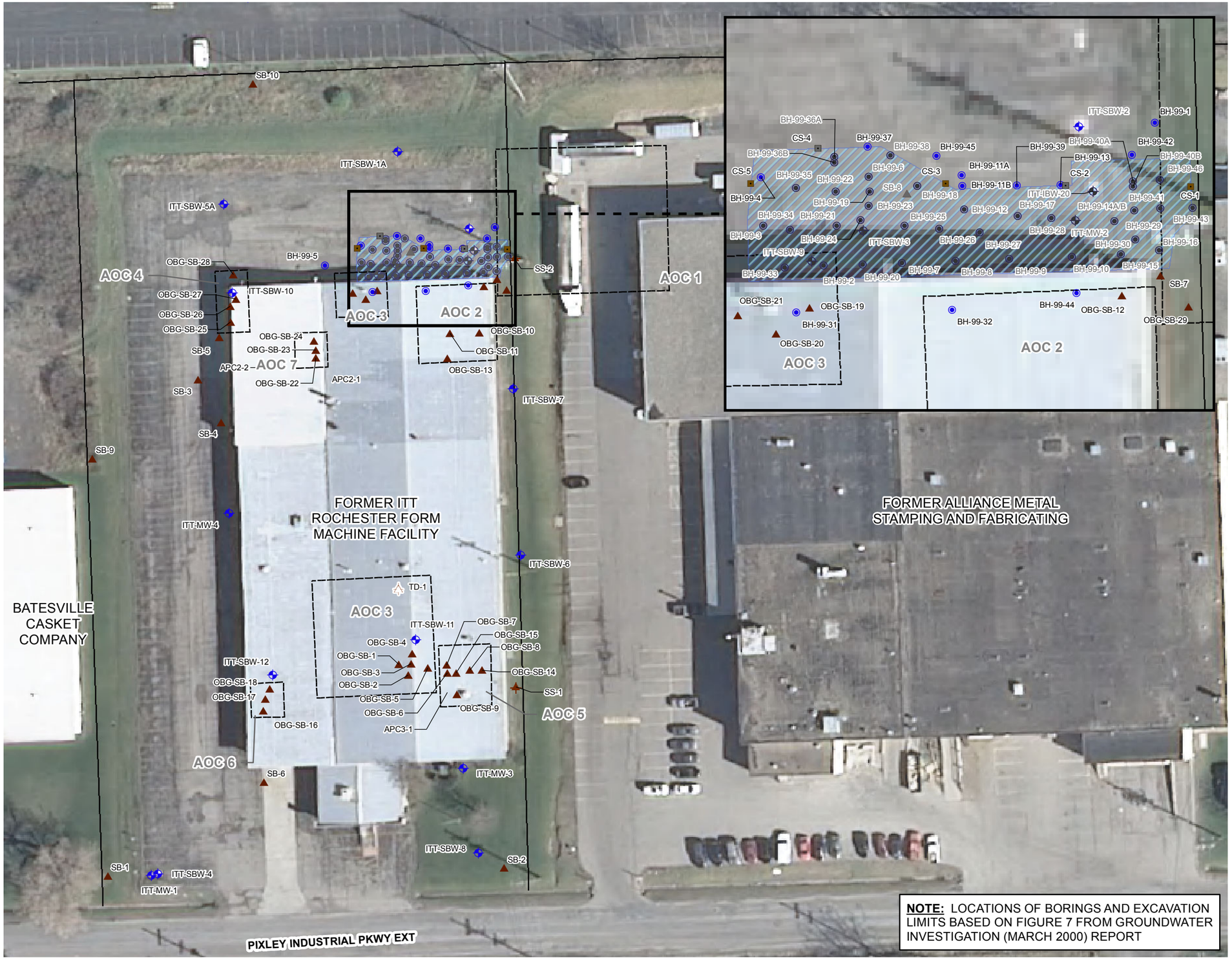

NOTE: LOCATIONS OF BORINGS AND EXCAVATION LIMITS BASED ON FIGURE 7 FROM GROUNDWATER INVESTIGATION (MARCH 2000) REPORT

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FIGURE 2-1

N

LEGEND

LOCATION TYPE

- CONFIRMATION SAMPLE
- GEOPROBE
- MONITORING WELL
- SOIL BORING
- SS
- TRENCH DRAIN SAMPLE
- EXCAVATED CONFIRMATION SAMPLE
- EXCAVATED GEOPROBE
- EXCAVATED MONITORING WELL
- EXCAVATED SOIL BORING
- AREA OF CONCERN (AOC)
- 1999 FORMER RFM SOIL REMEDIATION AREA
- PROPERTY LINE

FORMER ITT ROCHESTER FORM MACHINE FACILITY
TOWN OF GATES, NEW YORK
SITE #8-28-112

SOIL SAMPLING LOCATIONS ON THE FORMER RFM SITE

0 30 60 120
Feet

NOVEMBER 2014
3356.35273

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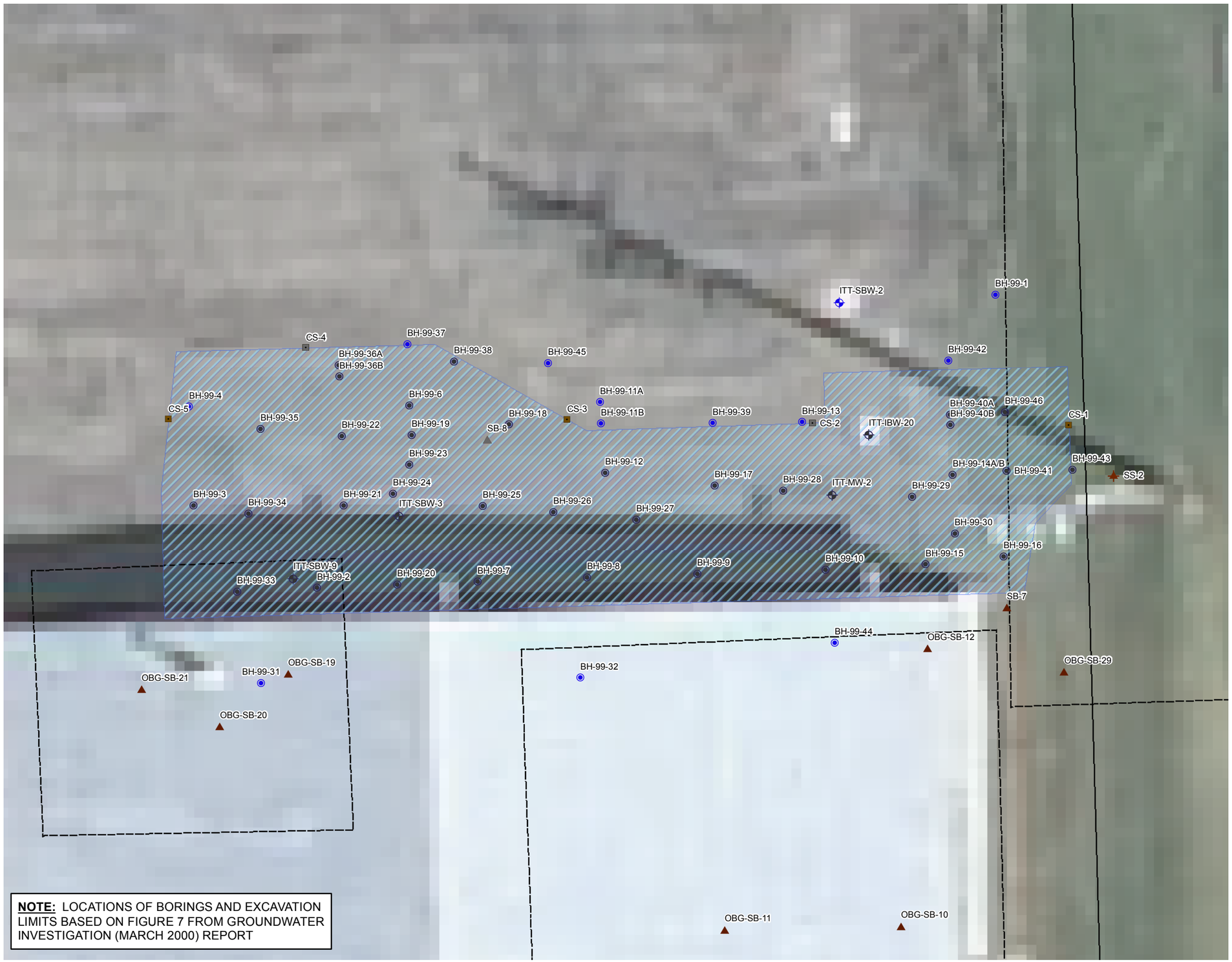

NOTE: LOCATIONS OF BORINGS AND EXCAVATION LIMITS BASED ON FIGURE 7 FROM GROUNDWATER INVESTIGATION (MARCH 2000) REPORT

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FIGURE 2-2

N

LEGEND

LOCATION TYPE

- CONFIRMATION SAMPLE
- GEOPROBE
- MONITORING WELL
- SOIL BORING
- SURFACE SOIL
- EXCAVATED HISTORIC CONFIRMATION SAMPLE
- EXCAVATED HISTORIC GEOPROBE
- EXCAVATED HISTORIC MONITORING WELL
- EXCAVATED HISTORIC SOIL BORING
- 1999 FORMER RFM SOIL REMEDIATION AREA
- AREA OF CONCERN (AOC)
- PROPERTY LINE

FORMER ITT ROCHESTER FORM
MACHINE FACILITY
TOWN OF GATES, NEW YORK
SITE #8-28-112

SUBSURFACE SOIL SAMPLING LOCATIONS AT THE 1999 EXCAVATION AREA AT THE FORMER RFM SITE

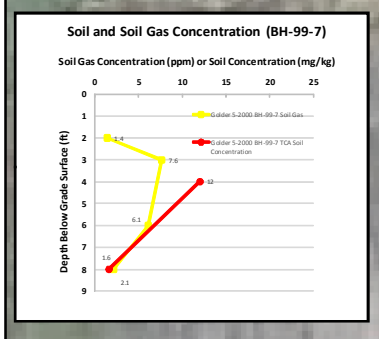
0 5 10 20
Feet

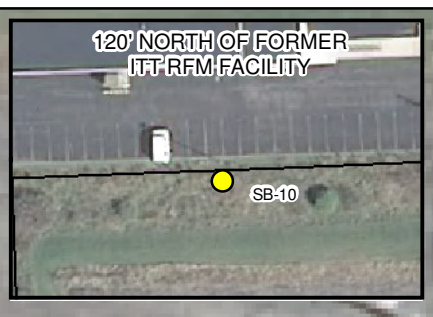
NOVEMBER 2014
3356.35273

O'BRIEN & GERE

DEPTH INTERVAL (0 - 4 ft bgs)

FIGURE 3-1a





AOC 1

SB-8

BH-99-34

BH-99-33

BH-99-7

BH-99-8

SB-7

OBG-SB-28

AOC 4

OBG-SB-27

OBG-SB-26

OBG-SB-20

ITT-SBW-3

BH-99-21

BH-99-32

AOC 3

BH-99-31

SB-5

OBG-SB-24

OBG-SB-23

OBG-SB-22

AOC 7

AOC 2

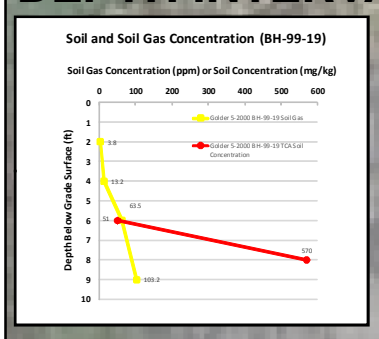
SB-3

FORMER ITT
ROCHESTER FORM
MACHINE FACILITY

TCA CONCENTRATION
- ND
- >ND - 0.300 mg/kg
- 0.301 - 2.000 mg/kg
- 2.001 - 10.000 mg/kg
- 10.001 - 570 mg/kg

DEPTH INTERVAL (4 - 6 ft bgs)

FIGURE 3-1b



AOC 1

BH-99-42

ITT-SBW-2

BH-99-36A

BH-99-19

BH-99-35

BH-99-22

BH-99-28

BH-99-14A/B

BH-99-27

BH-99-16

BH-99-9

AOC 4

OBG-SB-21

BH-99-25

BH-99-26

BH-99-20

BH-99-15

OBG-SB-26

ITT-SBW-3

OBG-SB-12

AOC 3

BH-99-31

OBG-SB-25

OBG-SB-10

AOC 7

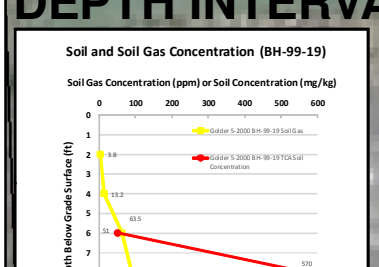
AOC 2

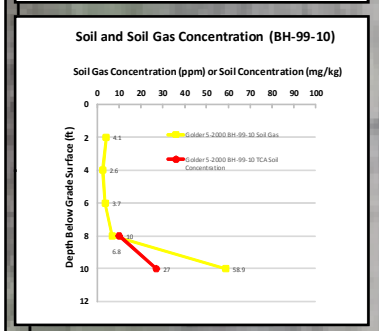
FORMER ITT
ROCHESTER FORM
MACHINE FACILITY

TCA CONCENTRATION
- ND
- >ND - 0.300 mg/kg
- 0.301 - 2.000 mg/kg
- 2.001 - 10.000 mg/kg
- 10.001 - 570 mg/kg

DEPTH INTERVAL (>6 ft bgs)

FIGURE 3-1c





ITT-SBW-1A

AOC 1

ITT-SBW-5A

BH-99-37

BH-99-6

BH-99-38

ITT-SBW-2

BH-99-18

BH-99-1

BH-99-45

CS-4

BH-99-40B

BH-99-46

BH-99-4

BH-99-19

CS-3

BH-99-39

BH-99-13

CS-1

BH-99-41

CS-5

BH-99-11B

BH-99-12

ITT-MW-2

BH-99-43

BH-99-3

BH-99-23

CS-2

BH-99-5

BH-99-17

OBG-SB-28

AOC 4

BH-99-10

BH-99-7

BH-99-8

BH-99-30

OBG-SB-27

BH-99-2

BH-99-44

OBG-SB-29

OBG-SB-21

OBG-SB-20

ITT-SBW-3

OBG-SB-12

AOC 3

BH-99-29

OBG-SB-25

OBG-SB-19

OBG-SB-11

OBG-SB-10

OBG-SB-24

OBG-SB-23

AOC 7

AOC 2

OBG-SB-22

OBG-SB-13

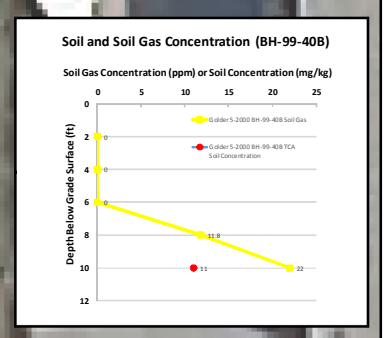
APC2-1

APC2-2

SB-3

FORMER ITT
ROCHESTER FORM
MACHINE FACILITY

ITT-SBW-7



TCA CONCENTRATION
- ND
- >ND - 0.300 mg/kg
- 0.301 - 2.000 mg/kg
- 2.001 - 10.000 mg/kg
- 10.001 - 570 mg/kg

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LEGEND
- PROPERTY LINE
- AREA OF CONCERN (AOC)
- 1999 FORMER RFM SOIL REMEDIATION AREA

NOTE: LOCATIONS OF BORINGS AND EXCAVATION LIMITS BASED ON FIGURE 7 FROM GROUNDWATER INVESTIGATION (MARCH 2000) REPORT

TCA CONCENTRATIONS IN SOIL AT THE FORMER RFM SITE

FORMER ITT ROCHESTER FORM
MACHINE FACILITY
TOWN OF GATES, NEW YORK
SITE #8-28-112

0 15 30 60
Feet

N

FIGURE 3-1

NOVEMBER 2014
3356.35273

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FIGURE 3-2

LEGEND

- AREA OF CONCERN (AOC)
- 1999 FORMER RFM SOIL REMEDIATION AREA
- PROPERTY LINE

1,4-DIOXANE CONCENTRATION

- ND
- <0.130 mg/kg
- 0.130 - 0.170 mg/kg
- 0.170 - 0.690 mg/kg
- 0.690 - 0.930 mg/kg

NOTE:

-ANALYTICAL RESULTS PRESENTED ARE FROM USEPA METHOD 8270.
-MULTIPLE COLOR DOTS AT A LOCATION REPRESENT MULTIPLE SAMPLES WITHIN DEPTH INTERVAL
-LOCATIONS OF BORINGS AND EXCAVATION LIMITS BASED ON FIGURE 7 FROM GROUNDWATER INVESTIGATION (MARCH 2000) REPORT

FORMER ITT ROCHESTER FORM
MACHINE FACILITY
TOWN OF GATES, NEW YORK
SITE #8-28-112

1,4-DIOXANE CONCENTRATIONS IN SOIL AT THE FORMER RFM SITE

0 30 60 120
Feet

NOVEMBER 2014
3356.35273

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