

**REMOVAL PROGRAM
PRELIMINARY ASSESSMENT/
SITE INVESTIGATION REPORT
FOR THE
RIED CLEANERS SITE
GREAT BARRINGTON, BERKSHIRE COUNTY,
MASSACHUSETTS
9 THROUGH 11 DECEMBER 2019**

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

CONTRACT NO. EP-S3-15-01

TO/TDD NO.: TO1-01-19-10-0003

TASK NO.: 0346

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Submitted By:

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Region I
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January 2020

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I. Preliminary Assessment/Site Investigation Forms



**EPA REGION I
REMOVAL PRELIMINARY ASSESSMENT**

Site Name and Location

Name: Ried Cleaners Site **Location:** 218 Main Street
Town: Great Barrington **County:** Berkshire County **State:** Massachusetts (MA)

Site Status: ☐ NPL ☒ NON-NPL ☐ RCRA ☐ TSCA
 ☐ ACTIVE ☐ ABANDONED ☐ OTHER

☐ Attached USGS Map of Location ☒ Site I.D. No.: 01QA

Latitude: 42 ° 11 ' 47.9" North **Longitude:** 73° 21' 41.2" West

Referral

☐ Citizen ☒ City/Town ☐ State ☐ Preremedial ☐ RCRA
☐ Other:

Name of referring party: Town of Great Barrington

Address: 334 Main Street #1,
Great Barrington, MA 01230 **Telephone:** (413) 528-1619

Contacts Identified

1) Chris Rembold **Telephone:** (413) 528-1619 ext. 103
2)
3)

Source of Information

☐ **Verbal:**

☒ **Report:** Eco-Genesis Corporation. 11 September. Phase I Initial Site Investigation & Tier Classification Submittal. 2009.
Shaw Environmental Inc. February. Subsurface Investigation Report Former Ried Cleaners Site. 2011.
TRC Environmental Corporation. 2 October. Hazardous Materials Inspection Report. 2019.

☐ **Other:**

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Potential Responsible Parties

Owner: Town of Great Barrington
(Assistant Town Manager Chris Rembold)
Address: 334 Main Street #1, Great Barrington, MA
Telephone: (413) 528-1619
ext. 103

Site Access

Authorizing Person: Town of Great Barrington
Date: 5 November 2019 **(X) Obtained** **() Verbal**
Telephone: (413) 528-1619 ex 103 **() Not Obtained** **(X) Written**

Historical Preservation

() Site is Historically Significant or Eligible for Historic Preservation

Contacts Identified

1) State Historical Preservation Officer (SHPO)

Name: Ms. Brona Simon **Telephone:** (617) 727-8470
SHPO & Executive Director

2) Tribal Historical Preservation Officer (THPO)

Name: Bettina Washington, THPO **Telephone:** (508) 645-9265 ext. 175

Comments:

Physical Site Characterization

Background Information:

The Ried Cleaners Site (the Site) is located at 218 Main Street in Great Barrington, Berkshire County, Massachusetts (MA). The approximately 0.29-acre property is identified on Town of Great Barrington Tax Assessor's Map number (No.) 14 as Lot No. 202. The property contains a one-story building in the southeast corner of the Site that is approximately 7,890 square feet, which was built in 1930. There was a second building, a one-story dry-cleaning building with no basement, totaling 1,056 square feet, constructed in 1900 that was located in the southwest portion of the site which was demolished in 2008. The site is bordered to the north by a savings bank and Rosseter Street; to the west by residential and commercial properties; to the south by a United States Postal Service (USPS) facility and commercial properties; and to the east by Main Street.

The property was used as a dry-cleaning business for over 60 years until it ceased operations in 2006. In August 2008, the southwest building was demolished.

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On 12 September 2008, preliminary excavation work was conducted at the site to determine the location of underground storage tanks (USTs) on the south side of the property, in the vicinity of the demolished building. Four USTs were uncovered: two were reportedly used for storing tetrachloroethylene (PCE), and were oriented vertically, each with a cone-shaped bottom; and two were used to store heating oil. At least one aboveground storage tank (AST), previously located in the vicinity of the USTs, was also used to store PCE. Prior to 12 September 2008, a 10,000-gallon UST was removed from the northwest corner of the property.

Also on 12 September 2008, four floor drains were found in the footprint of the former building, and soil samples were collected from beneath the former floor drains at the points of discharge. The soil samples were analyzed for volatile organic compounds (VOCs), volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbons (EPH), polychlorinated biphenyls (PCBs), and total metals including arsenic, cadmium, chromium, lead, and mercury. Elevated concentrations of PCE [maximum of 181,000 milligrams per kilogram (mg/kg)] were detected in the soil samples. Trichloroethylene (TCE) was also detected, at a maximum concentration of 11.2 mg/kg.

On 15 September 2008, the four USTs were removed from the vicinity of the demolished building. Photoionization detector (PID) headspace screening of soil from the UST grave indicated 120 parts per million (ppm), which constituted a reportable release as listed in the Massachusetts Contingency Plan (MCP). The Massachusetts Department of Environmental Protection (MassDEP) was notified of the release, and assigned release tracking number (RTN) 1-17142. On 24 September 2008, MassDEP issued a Notice of Responsibility (NOR) for the release.

In December 2008, indoor air samples were collected from the remaining site building. PCE was detected in the indoor air samples at up to 0.0445 parts per million (ppm) or 0.302 milligrams per cubic meter (mg/m³).

In April 2009, Eco-Genesis advanced soil borings on the property, collected soil samples from the borings, and installed and sampled three groundwater monitoring wells. In addition, soil gas vent points were installed in nine boring locations. Groundwater was encountered between 3 and 6 feet below ground surface (bgs). Groundwater flow is suspected to flow from northwest to the southeast. PCE was detected at maximum concentrations of 89.7 mg/kg in soil and 108 milligrams per Liter (mg/L) in groundwater.

In February 2010, Eco-Genesis installed an additional three wells (MW-4 through MW-6) on the Site and the adjacent church property to the northwest. Groundwater samples were collected from the new and existing monitoring wells. Results indicated maximum concentrations of PCE at 119,000 micrograms per Liter (µg/L); TCE at 970 µg/L; and cis-1,2-dichloroethylene (cis-1,2-DCE) at 26,300 µg/L.

Indoor air sampling of residences and businesses in the vicinity was also conducted. The results of this sampling event were not available.

In November 2010, on behalf of MassDEP, Shaw Environmental, Inc. (Shaw) installed monitoring wells MW-7 and MW-8 on the USPS property south of the site; MW-9 and MW-10 on the Masonic Temple property south of the USPS facility; and MW-11 and MW-12 on the Reid Cleaners Site.

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Soil samples were collected from the borings during well installation. Shaw collected groundwater samples from the existing wells, newly installed wells, and monitoring wells on adjacent properties. PCE was detected in groundwater samples at a maximum concentration of 94,000 micrograms per Liter ($\mu\text{g/L}$).

Shaw also conducted test-pit excavation in the area of the former western building. Volatile odors were noted during excavation, and elevated PID readings were recorded. Increasing PID readings during one excavation were cause for concern, and the excavation was stopped due to safety considerations. PID screening results for Test Pit 1 (TP-1) ranged from 398 ppm to 1,000 ppm, with the highest detection occurring within the former UST area. PID screening results from TP-2 and TP-3 were consistently greater than 9,999 ppm, and a strong chlorinated solvent odor was detected while performing the test-pit excavations. The highest PID screening result detected from TP-4 was 26 ppm, but no solvent odor was detected while excavating the test pit. One soil sample was collected from each of the test pits, and the soil samples were submitted for VOC, VPH, and EPH laboratory analysis.

Analytical results of the samples collected from the test-pits indicated that the following 10 VOCs were detected in soil in one or more samples: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-isopropyltoluene, 4-methyl-2-pentanone, cis-1,2-dichloroethylene (cis-1,2-DCE), n-butylbenzene, n-propylbenzene, sec-butylbenzene, PCE, and TCE.

The highest detected concentration of PCE was found in soil sample TP-3 at a concentration of 5,600 mg/kg; and the second highest detected concentration of PCE was found in sample TP-2 at a concentration of 2,100 mg/kg. The highest detection of cis-1,2-DCE was found in sample TP-4 at a concentration of 0.011 mg/kg. The highest detection of TCE was found in sample TP-4 at a concentration of 0.0044 mg/kg. Chlorinated solvent detections from samples TP-2 and TP-3 exceeded the MCP Method 1 S-1, S-2, and S-3 soil standards.

The seven remaining VOC detections in soil were petroleum-related compounds and included 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-isopropyltoluene, 4-methyl-2-pentanone, n-butylbenzene, n-propylbenzene, and sec-butylbenzene. The highest detection of a petroleum-related VOC was the detection of 4-methyl-2-pentanone in soil sample TP-1 at a concentration of 2.8 mg/kg, which exceeded the MCP Method 1 S-1/GW-1 soil standard.

The property was claimed by the town of Great Barrington for back taxes. The town subsequently obtained an EPA Brownfields grant to determine if any hazardous materials were present at the Site.

In July and September 2019, TRC Environmental Corporation (TRC) conducted a limited inspection for hazardous materials (hazardous materials inventory) at the Site. Activities included an asbestos survey of the remaining building; collection and analysis of debris/building material samples for asbestos; sampling and field analysis of paint chips for lead; sampling and analysis of caulking and glazing building components for PCBs; and documentation of other hazardous materials, such as mercury-containing items (electrical switches, thermostats, etc.). Analytical results revealed that five (5) types of building materials sampled contained $\geq 1\%$ asbestos. The X-Ray Fluorescence (XRF) field testing results indicated that levels of lead on surfaces ranged between 0.01 milligrams per cubic centimeter (mg/cm^2) (lower limit of quantification of the XRF)

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and 15.4 mg/cm². Laboratory results of the analysis of the caulking bulk samples did not identify the presence of PCBs above 50 ppm, indicating the sampled materials are not considered a PCB Bulk Product Waste. Two (2) of the three (3) samples had detectable concentrations of PCBs: 1.1 ppm in one sample of exterior door caulking (01), and 4.2 ppm in one sample of exterior window caulking (03). The remaining sample did not have detections of PCBs above the laboratory reporting limits.

On 6 November 2019, EPA On-Scene Coordinator (OSC) Mike Cofsky, Weston Solutions, Inc. Superfund Technical Assessment and Response Team (START) member Eric Ackerman, MassDEP representative Caprice Shaw, and Town of Great Barrington Assistant Town Manager Chris Rembold met at the site to conduct a site reconnaissance. START member Ackerman conducted a safety and operations meeting, and START signed the Site-specific Health and Safety Plan (HASP). START member Ackerman established a support zone and calibrated the air monitoring instruments, including a MultiRAE and a Ludlum 19A gamma radiation meter (MicroR). All personnel viewed and discussed the contamination area at the rear (western) portion of the property where the former dry cleaning building and PCE and oil tanks were removed. All personnel also discussed possible future sampling activities, and START member Ackerman photodocumented the site and marked the property for DigSafe. No readings above background were noted on the air monitoring instruments.

Description of Substances Possibly Present, Known or Alleged: Asbestos, PCBs, PCE, TCE and VOCs.

Existing Analytical Data

() Real-Time Monitoring Data:

(X) Sampling Data:

- Phase I Initial Site Investigation & Tier Classification Submittal. 11 September 2009. Eco-Genesis Corporation.
- Subsurface Investigation Report Former Ried Cleaners Site. February 2011. Shaw Environmental Inc.
- Hazardous Materials Inspection Report. 2 October 2019. TRC Environmental Corporation.

Potential Threat

Description of potential hazards to environment and/or population-identify any of the criteria for a Removal Action (from NCP) that may be met by the site under 40 CFR 300.415 [b] [2].

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.
- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.
- iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.

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- iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.
- v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.
- vi. Threat of fire or explosion.
- vii. The availability of other appropriate federal or state response mechanisms to respond to the release.
- viii. Other situations or factors that may pose threats to public health or welfare or the environment.

Prior Response Activities

☐ PRP ☒ STATE ☒ FEDERAL ☒ OTHER

Brief Description: Private developers contracted Eco-Genesis to conduct test pitting to determine extent of contamination; MassDEP contracted Shaw Environmental and Infrastructure to conduct a Site Investigation; and the Town of Great Barrington contracted TRC and used a Brownfields Grant to investigate hazards in the on-site building.

Priority for Site Investigation

☒ High ☐ Medium Low ☐ None ☐

Comments: Residential and commercial properties are near the site.

Report Generation

Originator:	Tyler Evans	Date:	12 December 2019
Affiliation:	Weston Solutions, Inc. (START)	Telephone:	(978) 552-2108
TDD No.:	TO1-01-19-10-0003	Task No.:	0346



**EPA REGION I
REMOVAL SITE INVESTIGATION**

Inspection Information

Site Name: Ried Cleaners **Address:** 218 Main Street
Town: Great Barrington **County:** Berkshire County **State:** Massachusetts
Date of Inspection: 6 November 2019 **Time of Inspection:** 1030 - 1230 hours
Weather Conditions: 56° Fahrenheit (°F), mostly sunny
Date of Inspection: 9 December 2019 **Time of Inspection:** 1000 – 1600 hours
Weather Conditions: 45°F, overcast, rain
Date of Inspection: 10 December 2019 **Time of Inspection:** 0730 – 1600 hours
Weather Conditions: 45°F, overcast, rain
Date of Inspection: 11 December 2019 **Time of Inspection:** 0730 – 0900 hours
Weather Conditions: 30°F, overcast, snow
Site Status at Time of Inspection: () ACTIVE (X) INACTIVE
Comments: The site contains a former dry cleaner facility.

Agencies/Personnel Performing Inspection

	<u>Names</u>	<u>Program</u>
(X) EPA:	Mike Cofsky	U.S. Environmental Protection Agency (EPA) Region I, Emergency Planning and Response Branch (EPRB), On-Scene Coordinator (OSC)
(X) EPA Contractor:	Eric Ackerman John Burton Chris Dupree Tyler Evans Bonnie Mace	Weston Solutions, Inc. (WESTON), Superfund Technical Assessment and Response Team IV (START)
(X) State:	Caprice Shaw	Massachusetts Department of Environmental Protection (MassDEP)
(X) Town:	Chis Rembold	Great Barrington, Assistant Town Manager

Current Owner Based on Field Interview: Town of Great Barrington

REMOVAL SITE INVESTIGATION

Physical Site Characteristics

<u>Parameter</u>	<u>Quantities/Extent</u>
<input type="checkbox"/> Cylinders:	
<input type="checkbox"/> Drums:	
<input type="checkbox"/> Lagoons:	
<input type="checkbox"/> Tanks:	<input type="checkbox"/> Above:
	<input type="checkbox"/> Below:
<input type="checkbox"/> Asbestos:	
<input type="checkbox"/> Piles:	
<input type="checkbox"/> Stained Soil:	
<input type="checkbox"/> Sheens:	
<input checked="" type="checkbox"/> Stressed Vegetation:	The area of concern is used as a parking area, and has been partially paved; there is minimal vegetation.
<input type="checkbox"/> Landfill:	
<input checked="" type="checkbox"/> Population in Vicinity:	An apartment building is located northwest of the site.
<input checked="" type="checkbox"/> Wells:	<input type="checkbox"/> Drinking:
	<input checked="" type="checkbox"/> Monitoring:
	Groundwater monitoring wells are located throughout the property and on adjacent properties.
<input type="checkbox"/> Other:	

Physical Site Observations

Comments: The property contains an existing building in moderate/slightly poor condition; the area of concern is located behind (west) of the existing building, and includes partially paved and unpaved areas. Portions have been used to stage plowed snow from the on-site and adjacent property parking areas.

Field Sampling and Analysis

<u>Matrix</u>	Field Instrumentation Readings				
	CGI/O ₂ (%)	RAD (μR/hr)	PID (ppm)	FID (ppm)	Other
Background:	0%/20.9%	10-15	0		
Air:	0%/20.9%	10-15	0		
Soil:	0%/20.9%	--	237.8		
Surface Water:					
Tanks:					
Drums:					
Vats:					
Lagoons:					
Spillage:					
Run Off:					
Piles:					
Sediments:					

REMOVAL SITE INVESTIGATION

Matrix	Field Instrumentation Readings				
	CGI/O₂ (%)	RAD (μR/hr)	PID (ppm)	FID (ppm)	Other
Groundwater:	0%/20.9%	--	9,763		
Other:					

CGI/O₂ (%) = Combustible Gas Indicator/Oxygen (percentage)

RAD (μR/hr) = Radiation (microRoentgens per hour)

PID = Photoionization Detector (parts per million)

FID (ppm) = Flame Ionization Detector (parts per million)

Field Quality Control Procedures

() SOP Followed

(X) Deviation from SOP

Comments:

Sampling was conducted in accordance with the site Sampling and Analysis Plan (SAP) that was prepared as a separate document, entitled *Sampling and Analysis Plan for the Ried Cleaners Site, Great Barrington, Berkshire County, Massachusetts*, dated December 2019.

During groundwater sampling, groundwater recharge in some monitoring wells was slow. Purging and parameter recording was stopped, and the slow-recharge wells were allowed to recharge prior to sampling. Groundwater sample GW-04 was collected the day following purging and parameter recording due to extremely slow recharge rate.

Description of Sampling Conducted

On 9 December 2019, EPA OSC Cofsky and START personnel Burton, Dupree, Evans, and Mace mobilized to the site to conduct sampling activities. START personnel advanced six borings to a maximum depth of 6 feet below ground surface (bgs). Soil from the borings was classified using the Burmister soil classification system, and samples were collected from each foot interval (A through F) in most cases. Soil was collected in pre-preserved vials for volatile organic compound (VOC) analysis. A total of 36 samples were collected, including one duplicate.

On 10 December 2019, START personnel collected 12 groundwater samples from 11 monitoring wells from the site and nearby properties. Monitoring wells were accessed, and depth to water and total well depth were measured. The wells were then purged through a YSI flow cell, and water parameter readings were documented. At the completion of purging, samples were collected for VOC analysis.

Due to slow recharge rates, some monitoring wells were allowed to recharge prior to sampling (samples GW-06 and GW-12). One monitoring well (sample GW-04) was allowed to recharge overnight due to extremely slow recharge.

On 11 December 2019, START personnel collected one groundwater sample (GW-04). EPA and START personnel then prepared chain-of-custody records, and departed the site. All samples were delivered to the EPA New England Regional Laboratory (NERL) for analysis.

REMOVAL SITE INVESTIGATION

Analyses

Analytical Parameter	Media	Laboratory
<input checked="" type="checkbox"/> VOC	<input type="checkbox"/> AIR	<input checked="" type="checkbox"/> NERL
<input type="checkbox"/> PCB	<input checked="" type="checkbox"/> WATER	<input type="checkbox"/> CLP
<input type="checkbox"/> PESTICIDE	<input checked="" type="checkbox"/> SOIL	<input type="checkbox"/> PRIVATE
<input type="checkbox"/> METALS	<input type="checkbox"/> SOURCE	<input type="checkbox"/> DAS
<input type="checkbox"/> CYANIDE	<input type="checkbox"/> SEDIMENT	<input type="checkbox"/> SOW
<input type="checkbox"/> SVOC	<input type="checkbox"/> SOIL GAS	<input type="checkbox"/> FIELD
<input type="checkbox"/> TOXICITY		
<input type="checkbox"/> DIOXIN		
<input type="checkbox"/> ASBESTOS		
<input type="checkbox"/> OTHER		

Receptors

	<u>Comments</u>
<input checked="" type="checkbox"/> Drinking Water: <input type="checkbox"/> Private: <input checked="" type="checkbox"/> Municipal:	<p>According to Great Barrington Assistant Town Manager Rembold, the adjacent United States Postal Services (USPS) property overlies the far northern edge of a potential drinking water aquifer for towns to the south.</p>
<input checked="" type="checkbox"/> Groundwater:	<p>Underground storage tanks (USTs) were formerly located on site, and used to store chemicals for the dry cleaning process. Previous groundwater sampling has indicated the presence of these chemicals and breakdown products.</p>
<input checked="" type="checkbox"/> Unrestricted Access:	<p>The site is used as additional parking for the downtown area, and the bank on the northern-adjacent property.</p>
<input checked="" type="checkbox"/> Population in Proximity:	<p>The site is located in a busy downtown area, and a residential apartment building is located northwest of the site.</p>
<input type="checkbox"/> Sensitive Ecosystem:	
<input type="checkbox"/> Other:	

Additional Procedures for Site Determination

☐ Biological Evaluation ☐ ATSDR ☐ None

To be determined by the On-Scene Coordinator (OSC).

REMOVAL SITE INVESTIGATION

Site Determination

Depending on further information, criteria that may be met by the site include 40 CFR 300.415 [b] [2], parts:

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.
- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.
- iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.
- iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.
- v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.
- vi. Threat of fire or explosion.
- vii. The availability of other appropriate federal or state response mechanisms to respond to the release.
- viii. Other situations or factors that may pose threats to public health or welfare or the environment.

Report Generation

Originator: Chris Dupree
Affiliation: Weston Solutions, Inc. (START)
TDD No.: TO1-01-19-10-0003

Date: 13 December 2019
Telephone: (978) 552-2104
Task No.: 0346

II. Narrative Chronology

Narrative Chronology

Introduction

The Ried Cleaners Site (the Site) is located at 218 Main Street in Great Barrington, Berkshire County, Massachusetts (MA) (see Appendix A, Figure 1) [1]. The approximately 0.29-acre property is identified on Town of Great Barrington Tax Assessor's Map number (No.) 14 as Lot No. 202. The property contains a one-story building in the southeast corner of the Site that is approximately 7,890 square feet, which was built in 1930. There was a second one-story dry-cleaning building with no basement, totaling 1,056 square feet, constructed in 1900, that was located in the southwest portion of the site which was demolished in 2008. The site is bordered to the north by a savings bank and Rosseter Street; to the west by residential and commercial properties; to the south by a United States Postal Service (USPS) facility and commercial properties; and to the east by Main Street (see Appendix A, Figure 2) [2].

The property was used as a dry-cleaning business for over 60 years until it ceased operations in 2006. In August 2008, the southwest building was demolished.

On 12 September 2008, preliminary excavation work was conducted at the site to determine the location of underground storage tanks (USTs) on the south side of the property, in the vicinity of the demolished building. Four USTs were uncovered: two were reportedly used for storing tetrachloroethylene (PCE), and were oriented vertically, each with a cone-shaped bottom; and two were used to store heating oil. At least one aboveground storage tank (AST), previously located in the vicinity of the USTs, was also used to store PCE. Prior to 12 September 2008, a 10,000-gallon UST was removed from the northwest corner of the property [3].

Also on 12 September 2008, four floor drains were found in the footprint of the former building, and soil samples were collected from beneath the former floor drains at the points of discharge. The soil samples were analyzed for volatile organic compounds (VOCs), volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbons (EPH), polychlorinated biphenyls (PCBs), and total metals including arsenic, cadmium, chromium, lead, and mercury. Elevated concentrations of PCE [maximum of 181,000 milligrams per kilogram (mg/kg)] were detected in the soil samples. Trichloroethylene (TCE) was also detected, at a maximum concentration of 11.2 mg/kg.

On 15 September 2008, the four USTs were removed from the vicinity of the demolished building. Photoionization detector (PID) headspace screening of soil from the UST grave indicated 120 parts per million (ppm), which constituted a reportable release as listed in the Massachusetts Contingency Plan (MCP). The Massachusetts Department of Environmental Protection (MassDEP) was notified of the release, and assigned release tracking number (RTN) 1-17142. On 24 September 2008, MassDEP issued a Notice of Responsibility (NOR) for the release.

In December 2008, indoor air samples were collected from the remaining site building. PCE was detected in the indoor air samples at up to 0.0445 parts per million (ppm) or 0.302 milligrams per cubic meter (mg/m³).

In April 2009, Eco-Genesis advanced soil borings on the property, collected soil samples from the borings, and installed and sampled three groundwater monitoring wells. In addition, soil gas vent points were installed in nine boring locations. Groundwater was encountered between 3 and 6 feet below ground surface (bgs). Groundwater flow is suspected to flow from northwest to the southeast. PCE was detected at maximum concentrations of 89.7 mg/kg in soil and 108 milligrams per Liter (mg/L) in groundwater.

In February 2010, Eco-Genesis installed an additional three wells (MW-4 through MW-6) on the Site and the adjacent church property to the northwest. Groundwater samples were collected from the new and existing monitoring wells. Results indicated maximum concentrations of PCE at 119,000 micrograms per Liter ($\mu\text{g/L}$); TCE at 970 $\mu\text{g/L}$; and cis-1,2-dichloroethylene (cis-1,2-DCE) at 26,300 $\mu\text{g/L}$ [4].

Indoor air sampling of residences and businesses in the vicinity was also conducted. The results of this sampling event were not available [5].

In November 2010, on behalf of MassDEP, Shaw Environmental, Inc. (Shaw) installed monitoring wells MW-7 and MW-8 on the USPS property, south of the site; MW-9 and MW-10 on the Masonic Temple property, south of the USPS facility; and MW-11 and MW-12 on the Ried Cleaners Site. Soil samples were collected from the borings during well installation. Shaw collected groundwater samples from the existing wells, newly installed wells, and monitoring wells on adjacent properties. PCE was detected in groundwater samples at a maximum concentration of 94,000 $\mu\text{g/L}$ [6].

Shaw also conducted test-pit excavation in the area of the former western building. Volatile odors were noted during excavation, and elevated PID readings were recorded. Increasing PID readings during one excavation were cause for concern, and the excavation was stopped due to safety considerations. PID screening results for Test Pit 1 (TP-1) ranged from 398 ppm to 1,000 ppm, with the highest detection occurring within the former UST area. PID screening results from TP-2 and TP-3 were consistently greater than 9,999 ppm, and a strong chlorinated solvent odor was detected while performing the test-pit excavations. The highest PID screening result detected from TP-4 was 26 ppm, but no solvent odor was detected while excavating the test pit. One soil sample was collected from each of the test pits, and the soil samples were submitted for VOC, VPH, and EPH laboratory analysis.

Analytical results of the samples collected from the test-pits indicated that the following VOCs were detected in soil (maximum concentration and sample location in parentheses): PCE (5,600 mg/kg in TP-3); cis-1,2-DCE (0.011 mg/kg in TP-4); and TCE (0.044 mg/kg in TP-4). In addition, the following seven petroleum-related VOCs were detected above their respective reporting limits: 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; 4-isopropyltoluene; 4-methyl-2-pentanone; n-butylbenzene; n-propylbenzene; and sec-butylbenzene.

Chlorinated solvent detections from samples TP-2 and TP-3 exceeded the MCP Method 1 soil category S-1, S-2, and S-3 soil standards.

The property was claimed by the town of Great Barrington for back taxes. The town subsequently obtained an EPA Brownfields grant to determine if any hazardous materials were present at the Site.

In July and September 2019, TRC Environmental Corporation (TRC) conducted a limited inspection for hazardous materials (hazardous materials inventory) at the Site. Activities included an asbestos survey of the remaining building; collection and analysis of debris/building material samples for asbestos; sampling and field analysis of paint chips for lead; sampling and analysis of caulking and glazing building components for PCBs; and documentation of other hazardous materials, such as mercury-containing items (electrical switches, thermostats, etc). Analytical results revealed that five types of building materials sampled contained $\geq 1\%$ asbestos. The X-Ray Fluorescence (XRF) field testing results indicated that levels of lead on surfaces ranged between 0.01 milligrams per cubic centimeter (mg/cm^2) (lower limit of quantification of the XRF) and $15.4 \text{ mg}/\text{cm}^2$. Laboratory results of the analysis of the caulking bulk samples did not identify the presence of PCBs above 50 ppm, indicating the sampled materials are not considered a PCB Bulk Product Waste. Two of the three samples had detectable concentrations of PCBs: 1.1 ppm in one sample of exterior door caulking, and 4.2 ppm in one sample of exterior window caulking. The remaining sample did not have detections of PCBs above the laboratory reporting limits [7].

Site/Sampling Activities

On 6 November 2019, EPA On-Scene Coordinator (OSC) Mike Cofsky, Weston Solutions, Inc. Superfund Technical Assessment and Response Team (START) member Eric Ackerman, MassDEP representative Caprice Shaw, and Town of Great Barrington Assistant Town Manager Chris Rembold met at the site to conduct a site reconnaissance. START member Ackerman conducted a safety and operations meeting and signed the Site-specific Health and Safety Plan (HASP). The site HASP had been prepared as a separate document, entitled *Weston Solutions, Inc., Region I START IV Site Health And Safety Plan (HASP) for the Ried Cleaners Site, Great Barrington, Massachusetts*. START member Ackerman established a support zone and calibrated the air monitoring instruments, including a MultiRAE and a Ludlum 19A gamma radiation meter (MicroR). Background levels were recorded in the HASP as follows: volatile organic compounds (VOCs) = 0.0 parts per million (ppm); lower explosive limit (LEL) = 0%; oxygen (O_2) = 20.9%; carbon monoxide (CO) = 0.0 ppm; and MicroR = 10-15 microRoentgens per hour ($\mu\text{R}/\text{hr}$) [8, 9]. All personnel viewed and discussed the contamination at the rear (western) portion of the property where the former dry cleaning building and PCE and oil tanks were removed. All personnel also discussed possible future sampling activities, and START member Ackerman photodocumented the site and marked the property for DigSafe. No reading above background were noted on the air monitoring instruments.

On 9 December 2019, EPA OSC Cofsky and START personnel John Burton, Chris Dupree, Tyler Evans, and Bonnie Mace mobilized to the site to conduct sampling activities. START personnel conducted a tailgate safety meeting and reviewed and signed the HASP, and then established a support zone and calibrated a MultiRAE instrument for air monitoring. Background levels were recorded in the HASP as follows: VOCs = 0.0 ppm; LEL = 0%; O_2 = 20.9%; and CO = 0.0 ppm. START also verified DigSafe markings for underground utilities.

START personnel advanced six borings to a maximum depth of 6 feet below ground surface (bgs) (see Appendix B, Table 1 and Appendix C, Boring Logs). Prior to boring, each location was screened with a magnetic pipe locator to identify any unmarked utilities or structures. Soil from the borings was classified using the Burmister soil classification system, and samples were collected from each foot interval (A through F) in most cases; one combined sample (0-2 foot, “AB” interval) was collected from one boring (SB-02) [10]. Soil was collected in pre-preserved methanol vials for VOC analysis. A total of 36 samples were collected, including one duplicate. All boring locations were recorded using a Global Positioning System (GPS) unit (see Appendix A, Figure 3) and were photodocumented (see Appendix D) [11].

On 10 December 2019, EPA and START personnel located groundwater monitoring wells, using a magnetic pipe locator to find metal wellheads below snow, soil, and debris. START personnel then conducted low-flow groundwater parameter recordings at 12 monitoring wells located on the Site and adjacent properties. Personnel accessed each well, screened the headspace with the MultiRAE, and measured the depth to groundwater and total depth. Groundwater was then purged from the wells into the flow cell of a YSI water quality parameter instrument. Water quality parameters were recorded at 5-minute intervals until the readings stabilized [12]. Groundwater samples were then collected for VOC analysis. Due to slow recharge rates, two monitoring wells were allowed to recharge prior to sampling (samples GW-06 and GW-12). One monitoring well (sample GW-04) was allowed to recharge overnight due to extremely slow recharge.

Sampling activities were performed in accordance with the site Sampling and Analysis Plan (SAP), which has been prepared as a separate document, entitled *Sampling and Analysis Plan for the Ried Cleaners Site, Great Barrington, Berkshire County, Massachusetts*. Deviations from the SAP were documented, including the recharge-based groundwater sampling delays [13].

On 11 December 2019, START personnel returned to the site and collected one groundwater sample (GW-04), and documented recharge depth of one well. EPA and START personnel then documented samples on chain-of-custody records (see Appendix E), and prepared the samples for delivery to the laboratory.

A total of 51 samples, including 13 groundwater samples from temporary wells, 37 soil boring samples, and one rinsate blank, were collected during this investigation. All samples were delivered and submitted to the EPA New England Regional Laboratory (NERL) for VOC analysis.

Analytical Data Summaries

On 6 January 2020, START received the analytical data results from NERL [14, 15, 16]. These data are summarized in Appendix B, Tables 1 and 2, and are included in Appendix E.

Soil Samples

There were six compounds detected in soil samples collected on site (maximum contaminant level and sample location in parentheses): cis-1,2-dichloroethylene [3,122 micrograms per kilogram (µg/kg) in SB-02C]; TCE (3,003 µg/kg in SB-02C); PCE (311,636 µg/kg in SB-02C); 1,2,4-

trimethylbenzene (301 µg/kg in SB-02F); sec-butylbenzene (81 µg/kg in SB-02F); and n-butylbenzene (180 µg/kg in SB-02F). One compound, PCE, was detected at concentrations greater than the Massachusetts Contingency Plan Soil Category 2 (MCP-S2) standard.

Groundwater Samples

There were six compounds detected in groundwater samples collected on site (maximum contaminant level and sample location in parentheses): 2-propanone [240 micrograms per Liter (µg/L) in GW-03]; carbon disulfide (21 µg/L in GW-02); methyl-t-butyl ether (7.7 µg/L in GW-09); cis-1,2-dichloroethylene (6,100 µg/L in GW-04); TCE (2,600 µg/L in GW-04); and PCE (130,000 µg/L in GW-06). One compound, cis-1,2-dichloroethylene, was detected at concentrations greater than the Massachusetts Contingency Plan Groundwater Category 2 (MCP-GW2) standard. Two compounds, TCE and PCE, were detected at concentrations greater than the MCP-GW2 standard and the EPA Vapor Intrusion Screening Level (VISL).

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- [15] U.S. Environmental Protection Agency. 6 January 2020. Laboratory Services and Applied Sciences Division (LSASD). Laboratory Report – VOAs in Soil High Level Method. Project No. 19120014. Ried Cleaners Site, Great Barrington, MA.
- [16] U.S. Environmental Protection Agency. 6 January 2020. Laboratory Services and Applied Sciences Division (LSASD). Laboratory Report - VOAs in Water. Project No. 19120014. Ried Cleaners Site, Great Barrington, MA.

III. Appendices

Appendix A

Figures

- Figure 1 - Site Location Map
- Figure 2 - Site Diagram
- Figure 3 - Sample Location Map

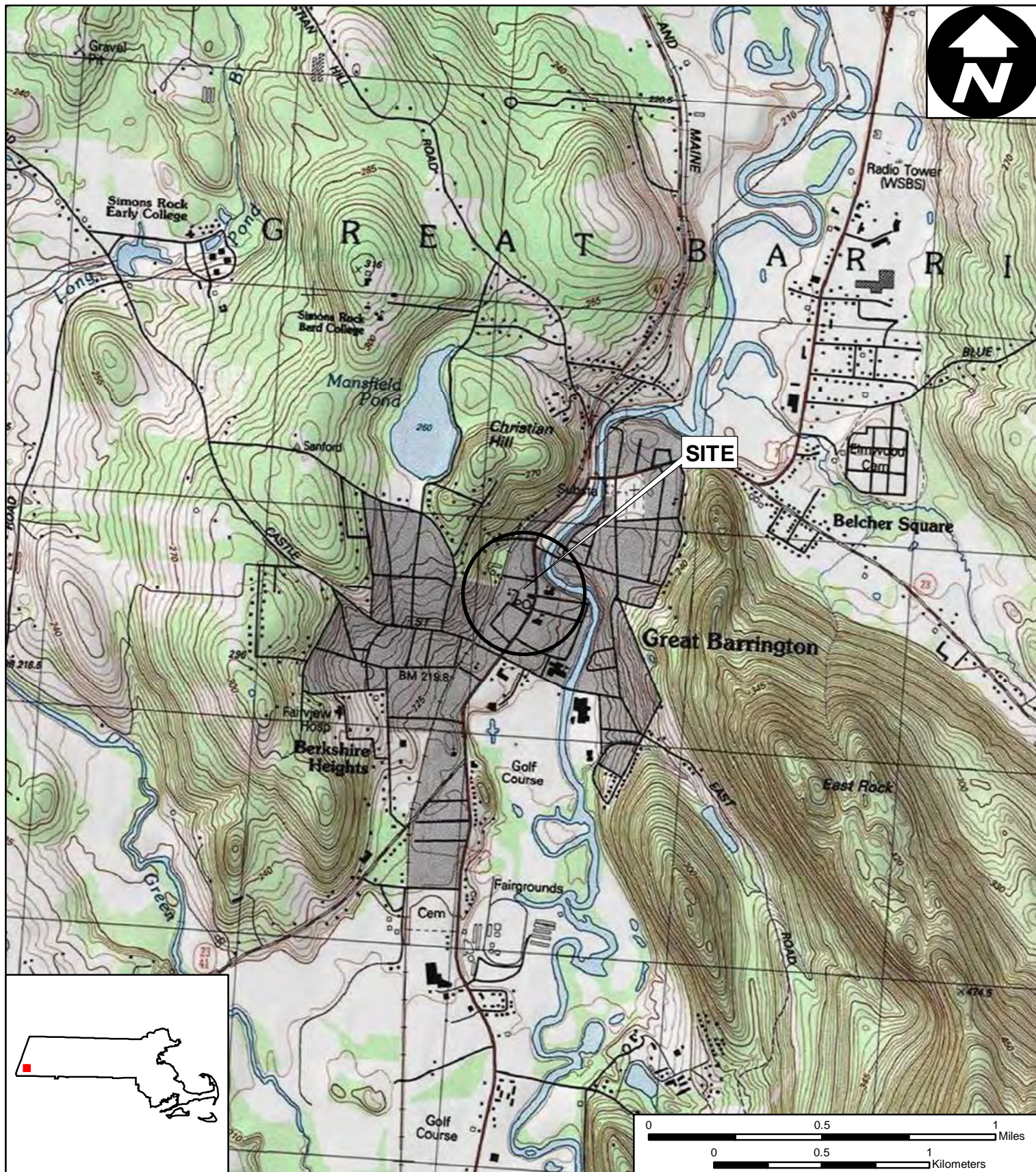


Figure 1
Site Location Map

Ried Cleaners Site
218 Main Street
Great Barrington, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number: TO1-01-19-10-0003
Created by: B. Mace
Created on: 17 October 2019
Modified by: B. Mace
Modified on: 17 October 2019

Data Sources:

Topos: MicroPath/USGS/USA Topo Maps
Quadrangle Name: Great Barrington, MA
All other data: START



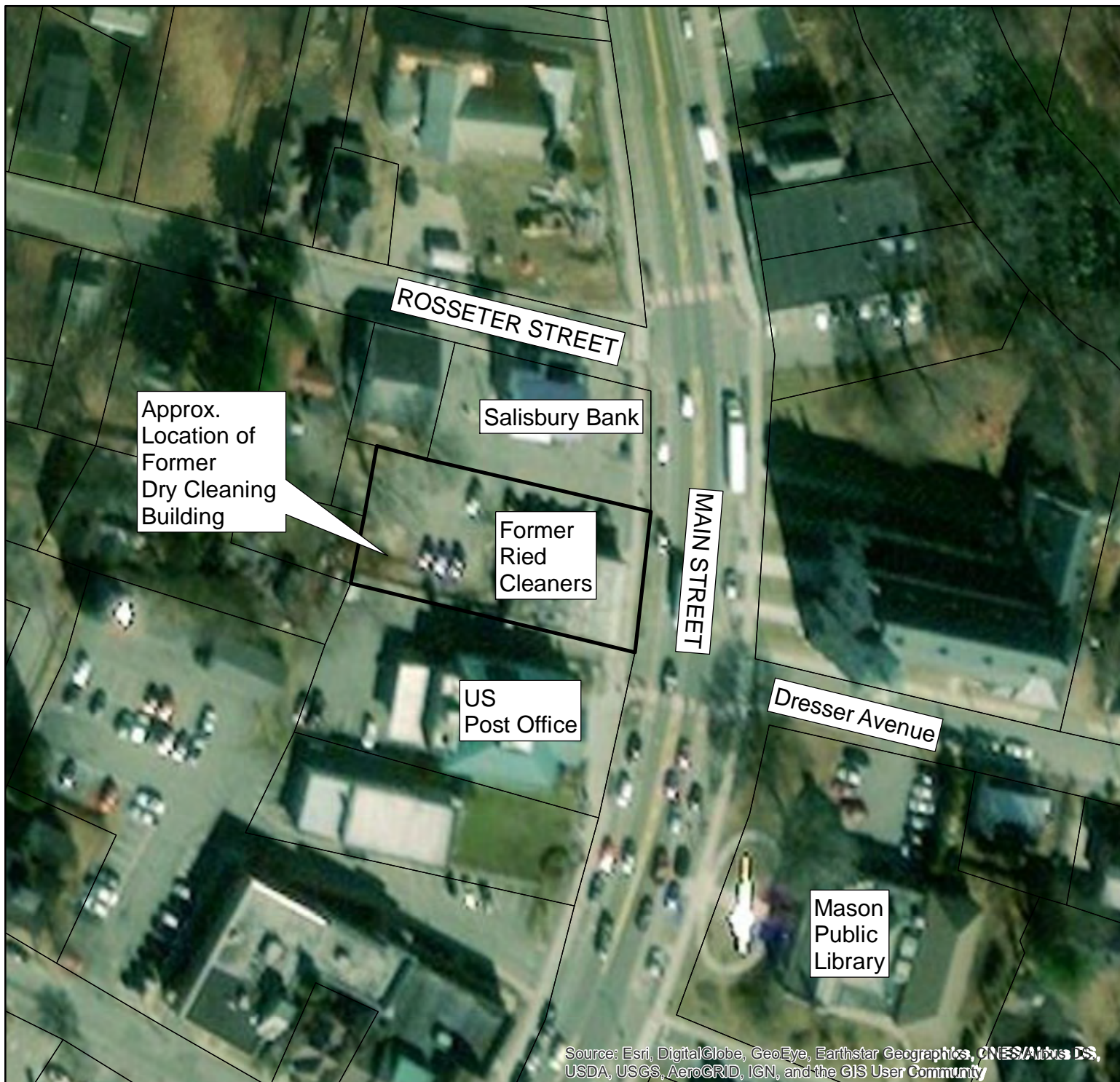


Figure 2



Site Diagram

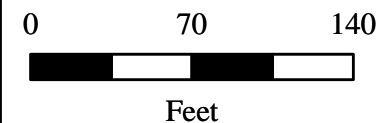
**Ried Cleaners Site
218 Main Street
Great Barrington, Massachusetts**

**EPA Region I
Superfund Technical Assessment and
Response Team (START) IV
Contract No. EP-S3-15-01**

TDD Number: TO1-01-19-10-0003
Created by: B. Mace
Created on: 17 October 2019
Modified by: B. Mace
Modified on: 4 December 2019

Legend

-  Property Boundary
-  Site Boundary



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS
AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START, MassGIS





Figure 3

Sample Location Map

**Ried Cleaners Site
218 Main Street
Great Barrington, Massachusetts**

**EPA Region I
Superfund Technical Assessment and
Response Team (START) IV
Contract No. EP-S3-15-01**

TDD Number: TO1-01-19-10-0003

Created by: B. Mace

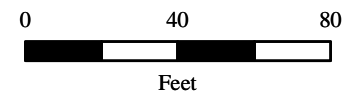
Created on: 17 October 2019

Modified by: B. Mace

Modified on: 27 January 2020

Legend

- Property Boundary
 - Site Boundary
 - Soil Boring Location
 - ⊕ GW/MW Sample Location
 - ⊕ Destroyed MW
- GW = Groundwater
MW = Monitoring Well



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START, MassGIS, TRC Environmental Corporation (TRC)



Appendix B

Tables

Table 1	-	Summary of Soil Sample Results
Table 2	-	Summary of Groundwater Sample Results

TABLE 1
SUMMARY OF SOIL SAMPLE RESULTS
RIED CLEANERS SITE
GREAT BARRINGTON, MASSACHUSETTS

	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH: REPORTING UNITS:		SB-01A 0346-0003 0-6 inches µg/kg	SB-01B 0346-0004 6-12 inches µg/kg	SB-01C 0346-0005 12-24 inches µg/kg	SB-01D 0346-0006 24-26 inches µg/kg	SB-01E 0346-0007 36-48 inches µg/kg	SB-01F 0346-0008 48-60 inches µg/kg	SB-02AB 0346-0009 0-12 inches µg/kg
	MCP-S2 Standard	EPA RML-Ind							
VOLATILE ORGANIC COMPOUNDS (VOCs)			µg/kg						
Cis-1,2-Dichloroethylene	500,000	7,000,000	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	60,000	56,000	ND	ND	ND	562	1,032	ND	ND
Tetrachloroethylene	200,000	1,200,000	ND	2,241	6,551	34,491	75,603	20,685	20,149
1,2,4-Trimethylbenzene	200,000	5,300,000	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	200,000	350,000,000	ND	ND	ND	ND	ND	ND	ND
N-Butylbenzene	200,000	180,000,000	ND	ND	ND	ND	ND	ND	ND

ANALYTICAL METHODS

Samples analyzed by U.S. EPA Laboratory Services and Applied Sciences Division as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS10, VOAs in Soil or Water High Level Method.

NOTES:

- 1) µg/kg = micrograms per kilogram
- 2) ND = Not Detected.
- 3) MCP-S2 = Massachusetts Contingency Plan S-2 Standard
- 4) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 5) Values bolded and shaded in yellow indicate compounds exceeding MCP S-2 Standard.
- 6) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 7) Results are reported in the units noted.
- 8) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 1
SUMMARY OF SOIL SAMPLE RESULTS
RIED CLEANERS SITE
GREAT BARRINGTON, MASSACHUSETTS

	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH: REPORTING UNITS:		SB-02C 0346-0010 12-24 inches µg/kg	SB-02D 0346-0011 24-26 inches µg/kg	SB-102D 0346-0012 24-26 inches µg/kg	SB-02E 0346-0013 36-48 inches µg/kg	SB-02F 0346-0014 48-60 inches µg/kg	SB-03A 0346-0015 0-6 inches µg/kg	SB-03B 0346-0016 6-12 inches µg/kg
	MCP-S2 Standard	EPA RML-Ind							
VOLATILE ORGANIC COMPOUNDS (VOCs)			µg/kg						
Cis-1,2-Dichloroethylene	500,000	7,000,000	3,122	ND	ND	581	1,176	ND	ND
Trichloroethylene	60,000	56,000	3,003	ND	ND	ND	272	ND	ND
Tetrachloroethylene	200,000	1,200,000	311,636	8,922	12,295	19,817	138	ND	ND
1,2,4-Trimethylbenzene	200,000	5,300,000	ND	ND	ND	ND	301	ND	ND
Sec-Butylbenzene	200,000	350,000,000	ND	ND	ND	ND	81	ND	ND
N-Butylbenzene	200,000	180,000,000	ND	ND	ND	ND	180	ND	ND

ANALYTICAL METHODS

Samples analyzed by U.S. EPA Laboratory Services and Applied Sciences Division as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS10, VOAs in Soil or Water High Level Method.

NOTES:

- 1) µg/kg = micrograms per kilogram
- 2) ND = Not Detected.
- 3) MCP-S2 = Massachusetts Contingency Plan S-2 Standard
- 4) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 5) Values bolded and shaded in yellow indicate compounds exceeding MCP S-2 Standard.
- 6) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 7) Results are reported in the units noted.
- 8) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 1
SUMMARY OF SOIL SAMPLE RESULTS
RIED CLEANERS SITE
GREAT BARRINGTON, MASSACHUSETTS

	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH: REPORTING UNITS:		SB-03C 0346-0017 12-24 inches µg/kg	SB-03D 0346-0018 24-26 inches µg/kg	SB-03E 0346-0019 36-48 inches µg/kg	SB-03F 0346-0020 48-60 inches µg/kg	SB-04A 0346-0021 0-6 inches µg/kg	SB-04B 0346-0022 6-12 inches µg/kg	SB-04C 0346-0023 12-24 inches µg/kg
	MCP-S2 Standard	EPA RML-Ind							
VOLATILE ORGANIC COMPOUNDS (VOCs)			µg/kg						
Cis-1,2-Dichloroethylene	500,000	7,000,000	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	60,000	56,000	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	200,000	1,200,000	312	188	ND	ND	159	492	538
1,2,4-Trimethylbenzene	200,000	5,300,000	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	200,000	350,000,000	ND	ND	ND	ND	ND	ND	ND
N-Butylbenzene	200,000	180,000,000	ND	ND	ND	ND	ND	ND	ND

ANALYTICAL METHODS

Samples analyzed by U.S. EPA Laboratory Services and Applied Sciences Division as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS10, VOAs in Soil or Water High Level Method.

NOTES:

- 1) µg/kg = micrograms per kilogram
- 2) ND = Not Detected.
- 3) MCP-S2 = Massachusetts Contingency Plan S-2 Standard
- 4) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 5) Values bolded and shaded in yellow indicate compounds exceeding MCP S-2 Standard.
- 6) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 7) Results are reported in the units noted.
- 8) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 1
SUMMARY OF SOIL SAMPLE RESULTS
RIED CLEANERS SITE
GREAT BARRINGTON, MASSACHUSETTS

	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH: REPORTING UNITS:		SB-04D 0346-0024 24-26 inches µg/kg	SB-04E 0346-0025 36-48 inches µg/kg	SB-04F 0346-0026 48-60 inches µg/kg	SB-05A 0346-0027 0-6 inches µg/kg	SB-05B 0346-0028 6-12 inches µg/kg	SB-05C 0346-0029 12-24 inches µg/kg	SB-05D 0346-0030 24-26 inches µg/kg
	MCP-S2 Standard	EPA RML-Ind							
VOLATILE ORGANIC COMPOUNDS (VOCs)			µg/kg						
Cis-1,2-Dichloroethylene	500,000	7,000,000	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	60,000	56,000	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	200,000	1,200,000	462	ND	ND	171	422	657	565
1,2,4-Trimethylbenzene	200,000	5,300,000	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	200,000	350,000,000	ND	ND	ND	ND	ND	ND	ND
N-Butylbenzene	200,000	180,000,000	ND	ND	ND	ND	ND	ND	ND

ANALYTICAL METHODS

Samples analyzed by U.S. EPA Laboratory Services and Applied Sciences Division as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS10, VOAs in Soil or Water High Level Method.

NOTES:

- 1) µg/kg = micrograms per kilogram
- 2) ND = Not Detected.
- 3) MCP-S2 = Massachusetts Contingency Plan S-2 Standard
- 4) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 5) Values bolded and shaded in yellow indicate compounds exceeding MCP S-2 Standard.
- 6) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 7) Results are reported in the units noted.
- 8) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 1
SUMMARY OF SOIL SAMPLE RESULTS
RIED CLEANERS SITE
GREAT BARRINGTON, MASSACHUSETTS

	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH: REPORTING UNITS:		SB-05E 0346-0031 36-48 inches µg/kg	SB-05F 0346-0032 48-60 inches µg/kg	SB-06A 0346-0033 0-6 inches µg/kg	SB-06B 0346-0034 6-12 inches µg/kg	SB-06C 0346-0035 12-24 inches µg/kg	SB-06D 0346-0036 24-26 inches µg/kg	SB-06E 0346-0037 36-48 inches µg/kg
	MCP-S2 Standard	EPA RML-Ind							
VOLATILE ORGANIC COMPOUNDS (VOCs)			µg/kg						
Cis-1,2-Dichloroethylene	500,000	7,000,000	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	60,000	56,000	ND	ND	ND	562	136	1,081	ND
Tetrachloroethylene	200,000	1,200,000	64	ND	1,182	13,734	2,530	30,387	1,519
1,2,4-Trimethylbenzene	200,000	5,300,000	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	200,000	350,000,000	ND	ND	ND	ND	ND	ND	ND
N-Butylbenzene	200,000	180,000,000	ND	ND	ND	ND	ND	ND	ND

ANALYTICAL METHODS

Samples analyzed by U.S. EPA Laboratory Services and Applied Sciences Division as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS10, VOAs in Soil or Water High Level Method.

NOTES:

- 1) µg/kg = micrograms per kilogram
- 2) ND = Not Detected.
- 3) MCP-S2 = Massachusetts Contingency Plan S-2 Standard
- 4) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 5) Values bolded and shaded in yellow indicate compounds exceeding MCP S-2 Standard.
- 6) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 7) Results are reported in the units noted.
- 8) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 1
SUMMARY OF SOIL SAMPLE RESULTS
RIED CLEANERS SITE
GREAT BARRINGTON, MASSACHUSETTS

	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH: REPORTING UNITS:		SB-06F 0346-0038 48-60 inches µg/kg	SB-106F 0346-0039 48-60 inches µg/kg
	MCP-S2 Standard	EPA RML-Ind		
VOLATILE ORGANIC COMPOUNDS (VOCs)			µg/kg	
Cis-1,2-Dichloroethylene	500,000	7,000,000	ND	73
Trichloroethylene	60,000	56,000	ND	93
Tetrachloroethylene	200,000	1,200,000	324	1,061
1,2,4-Trimethylbenzene	200,000	5,300,000	ND	ND
Sec-Butylbenzene	200,000	350,000,000	ND	ND
N-Butylbenzene	200,000	180,000,000	ND	ND

ANALYTICAL METHODS

Samples analyzed by U.S. EPA Laboratory Services and Applied Sciences Division as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS10, VOAs in Soil or Water High Level Method.

NOTES:

- 1) µg/kg = micrograms per kilogram
- 2) ND = Not Detected.
- 3) MCP-S2 = Massachusetts Contingency Plan S-2 Standard
- 4) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 5) Values bolded and shaded in yellow indicate compounds exceeding MCP S-2 Standard.
- 6) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 7) Results are reported in the units noted.
- 8) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 2
SUMMARY OF GROUNDWATER SAMPLE RESULTS
RIED CLEANERS
GREAT BARRINGTON, MASSACHUSETTS

COMPOUND	SAMPLE LOCATION: SAMPLE NUMBER: REPORTING UNITS:		GW-01 0346-0040 µg/L	GW-02 0346-0041 µg/L	GW-03 0346-0042 µg/L	GW-04 0346-0043 µg/L	GW-05 0346-0044 µg/L	GW-06 0346-0045 µg/L	GW-07 0346-0046 µg/L
	MCP-GW2 Standards	EPA VISL							
	µg/L								
VOLATILE ORGANIC COMPOUNDS (VOCs)									
2-Propanone (acetone)	50,000	67,500,000	ND	ND	240	ND	ND	ND	ND
Carbon Disulfide	10,000	3,720	ND	21	ND	ND	ND	ND	ND
Methyl-t-Butyl Ether	50,000	45,000	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	20	NL	ND	ND	ND	6,100	1,800	3,600	ND
Trichloroethylene	5.0	16	ND	ND	ND	2,600	710	2,300	ND
Tetrachloroethylene	50	173	ND	30	200	47,000	6,500	130,000	62

ANALYTICAL METHODS

Samples analyzed by U.S. EPA Laboratory Services and Applied Sciences Division as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS10, VOAs in Soil or Water High Level Method.

NOTES:

- 1) µg/L = micrograms per Liter
- 2) NL = Not Listed.
- 3) ND = Not Detected
- 4) Massachusetts Contingency Plan (MCP) GW-2 Standard
- 5) EPA VISL = US EPA Vapor Intrusion Screening Level: Exposure Scenario = Residential; Target Risk = 1.00e-04; Target Hazard Quotient of Non-Carcinogens = 3.
- 6) Values bolded and shaded in yellow indicate compounds exceeding the MCP-GW2 levels.
- 7) Values bolded and shaded in red indicate compounds exceeding the EPA VISLs.
- 8) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 2
SUMMARY OF GROUNDWATER SAMPLE RESULTS
RIED CLEANERS
GREAT BARRINGTON, MASSACHUSETTS

COMPOUND	SAMPLE LOCATION: SAMPLE NUMBER: REPORTING UNITS:		GW-08 0346-0047 µg/L	GW-09 0346-0048 µg/L	GW-10 0346-0049 µg/L	GW-11 0346-0050 µg/L	GW-12 0346-0051 µg/L	GW-102 0346-0052 µg/L
	MCP-GW2 Standards	EPA VISL						
VOLATILE ORGANIC COMPOUNDS (VOCs)	µg/L							
2-Propanone (acetone)	50,000	67,500,000	ND	ND	ND	30	7.0	ND
Carbon Disulfide	10,000	3,720	ND	ND	ND	ND	ND	11
Methyl-t-Butyl Ether	50,000	45,000	ND	7.7	ND	ND	ND	ND
cis-1,2-Dichloroethylene	20	NL	58	12	1.8	ND	ND	ND
Trichloroethylene	5.0	16	21	7.3	2.2	ND	ND	ND
Tetrachloroethylene	50	173	52	18	12	78	1.1	31

ANALYTICAL METHODS

Samples analyzed by U.S. EPA Laboratory Services and Applied Sciences Division as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS10, VOAs in Soil or Water High Level Method.

NOTES:

- 1) µg/L = micrograms per Liter
- 2) NL = Not Listed.
- 3) ND = Not Detected
- 4) Massachusetts Contingency Plan (MCP) GW-2 Standard
- 5) EPA VISL = US EPA Vapor Intrusion Screening Level: Exposure Scenario = Residential;
Target Risk = 1.00e-04; Target Hazard Quotient of Non-Carcinogens = 3.
- 6) Values bolded and shaded in yellow indicate compounds exceeding the MCP-GW2 levels.
- 7) Values bolded and shaded in red indicate compounds exceeding the EPA VISLs.
- 8) A compound is listed in the table above only if it was detected in at least one of the sam-
ples analyzed. Compounds that were analyzed for, but not detected, have been omitted.

Appendix C

Boring Logs

Weston Solutions, Inc.		SOIL BORING LOG		Page 1 of 1	
Project/Site	Ried Cleaners Site	Boring ID	SB-01	Groundwater Levels	
Location	Great Barrington, MA	Well ID	N/A	Date	Depth (ft)
Date Drilled	9-Dec-2019	Drilling Method	Direct Push	N/A	N/A
Drilling Company	Weston Solutions, Inc.	Sampling Method	4-ft Macrocore		
Drill Rig Type	Electric Hammer	Completion Depth	6 ft bgs		
Foreman	Tyler Evans	Surface Elevation	N/A		
Logged by Chris Dupree, Weston, Superfund Technical Assessment and Response Team (START)					
Depth (ft bgs)	Recovery (inches)	Soil Description*			PID (ppm)
1__	29	0-3" Dark brown fine SAND and SILT, little organics (leaves, roots), trace fine gravel.			1.6
		3-7" Light brown fine to coarse SAND trace organics.			12.1
2__		7-21" Brown fine to coarse SAND and SILT, trace fine to coarse gravel, trace organics, trace debris (glass, brick, asphalt).			8.1
3__					5.4
4__		21-29" Dark brown SILT and fine coarse SAND, little clay, moist, trace fine gravel.			8.6
5__	19	0-2" Brown fine to coarse SAND, trace gravel.			8.5
		2-10" Brown SILT and fine to coarse SAND, trace clay.			30
6__		10-11" Dark brown/black/red DEBRIS and GRAVEL.			17.3
		11-16" Gray fine to coarse SAND fine to coarse gravel.			286.2
		16-19" Gray SILT and fine SAND, trace clay, trace fine gravel, petroleum odor.			237.8
-End of Boring at 6 feet-					
Sample Collection Details					
<div style="display: flex; justify-content: space-between;"> <div> <p>Sample SB-01A: Collected from 3- 7" interval at 1225 hrs.</p> <p>Sample SB-01B: Collected from 7- 14" interval at 1227 hrs.</p> <p>Sample SB-01C: Collected from 14 - 21" interval at 1229 hrs.</p> <p>Sample SB-01D: Collected from 21 - 29" interval at 1232 hrs.</p> <p>Sample SB-01E: Collected from 2 - 10" interval at 1245 hrs.</p> <p>Sample SB-01F: Collected from 16 - 19" interval at 1248 hrs.</p> <p>Notes:</p> <p>bgs = below ground surface ft = feet</p> <p>N/A = Not Applicable hrs = hours</p> <p>PID = Photoionization detector ppm = parts per million</p> <p>* = Burmister Soil Classification System</p> </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p style="text-align: center;">PROPORTIONS USED (by DRY WEIGHT)</p> <p>0 to 10% = TRACE</p> <p>>10 to 20% = LITTLE</p> <p>>20 to 35% = SOME</p> <p>>35 to 50% = AND</p> <p>> 50% = MAJOR</p> </div> </div>					

Weston Solutions, Inc.		SOIL BORING LOG		Page 1 of 1	
Project/Site	Ried Cleaners Site	Boring ID	SB-03	Groundwater Levels	
Location	Great Barrington, MA	Well ID	N/A	Date	Depth (ft)
Date Drilled	9-Dec-2019	Drilling Method	Direct Push	N/A	N/A
Drilling Company	Weston Solutions, Inc.	Sampling Method	4-ft Macrocore		
Drill Rig Type	Electric Hammer	Completion Depth	6 ft bgs		
Foreman	Tyler Evans	Surface Elevation	N/A		
Logged by Chris Dupree, Weston, Superfund Technical Assessment and Response Team (START)					
Depth (ft bgs)	Recovery (inches)	Soil Description*			PID (ppm)
1__	24	0-2" Dark brown fine to coarse SAND and SILT, trace organics, trace fine gravel.			0.0
2__		2-14" Red-brown fine to coarse SAND, trace fine to medium gravel, trace organics.			
3__		14-15" DEBRIS (ash).			
4__		15-24" Dark brown SILT and fine to coarse SAND, trace fine to coarse gravel, trace debris (ash, slag, glass), trace organics.			
5__	23	0-2" Red-brown fine to coarse SAND and SILT, trace fine gravel, trace organics.			0.0
		2-4" Dark brown SILT and fine to coarse SAND, trace organics.			
6__		4-14" Light brown fine to coarse SAND and SILT, trace fine gravel.			
		14-21" Light brown fine to coarse SAND, little fine to coarse gravel.			
		21-23" Dark brown/red fine to coarse SAND and fine GRAVEL.			
-End of Boring at 6 feet-					
Sample Collection Details					
<div style="display: flex; justify-content: space-between;"> <div> <p>Sample SB-03A: Collected from 0- 6" interval at 1350 hrs.</p> <p>Sample SB-03B: Collected from 6- 12" interval at 1353 hrs.</p> <p>Sample SB-03C: Collected from 12 - 18" interval at 1355 hrs.</p> <p>Sample SB-03D: Collected from 18- 24" interval at 1357 hrs.</p> <p>Sample SB-03E: Collected from 0 - 14" interval at 1405 hrs.</p> <p>Sample SB-03F: Collected from 14 - 23" interval at 1408 hrs.</p> </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p style="text-align: center;">PROPORTIONS USED (by DRY WEIGHT)</p> <p>0 to 10% = TRACE</p> <p>>10 to 20% = LITTLE</p> <p>>20 to 35% = SOME</p> <p>>35 to 50% = AND</p> <p>> 50% = MAJOR</p> </div> </div>					
<p>Notes:</p> <p>Sample SB-03D is a MS/MSD.</p> <p>bgs = below ground surface</p> <p>N/A = Not Applicable</p> <p>PID = Photoionization detector</p> <p>* = Burmister Soil Classification System</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <p>ft = feet</p> <p>hrs = hours</p> <p>ppm = parts per million</p> </div>					

Weston Solutions, Inc.		SOIL BORING LOG		Page 1 of 1	
Project/Site	Ried Cleaners Site	Boring ID	SB-04	Groundwater Levels	
Location	Great Barrington, MA	Well ID	N/A	Date	Depth (ft)
Date Drilled	9-Dec-2019	Drilling Method	Direct Push	N/A	N/A
Drilling Company	Weston Solutions, Inc.	Sampling Method	4-ft Macrocore		
Drill Rig Type	Electric Hammer	Completion Depth	6 ft bgs		
Foreman	Tyler Evans	Surface Elevation	N/A		
Logged by Chris Dupree, Weston, Superfund Technical Assessment and Response Team (START)					
Depth (ft bgs)	Recovery (inches)	Soil Description*			PID (ppm)
1__	27	0-2" Dark brown (wet, snow melt) SILT and fine SAND, trace organics.			0.0
2__		2-25" Brown fine to coarse SAND and SILT, trace fine to coarse gravel, trace debris (ash, slag, brick, asphalt).			
3__					
4__		25-27" Black/dark brown SILT and fine to coarse SAND.			
5__	22	0-8" Dark brown SILT and fine SAND.			0.0
		8-14" Brown/gray SILT and fine to coarse SAND, trace fine gravel.			
		14-20" Brown, gray and orange fine to coarse SAND and SILT, little fine to coarse gravel, wet.			
6__		20-22" Brown fine to coarse SAND, trace fine gravel, wet.			
-End of Boring at 6 feet-					
Sample Collection Details					
<div style="display: flex; justify-content: space-between;"> <div> <p>Sample SB-04A: Collected from 0- 7" interval at 1422 hrs.</p> <p>Sample SB-04B: Collected from 7- 14" interval at 1425 hrs.</p> <p>Sample SB-04C: Collected from 14 - 21" interval at 1428 hrs.</p> <p>Sample SB-04D: Collected from 21- 27" interval at 1430 hrs.</p> <p>Sample SB-04E: Collected from 0 - 11" interval at 1440 hrs.</p> <p>Sample SB-04F: Collected from 11 - 22" interval at 1442 hrs.</p> <p>Notes:</p> <p>bgs = below ground surface</p> <p>N/A = Not Applicable</p> <p>PID = Photoionization detector</p> <p>* = Burmister Soil Classification System</p> </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p style="text-align: center;">PROPORTIONS USED (by DRY WEIGHT)</p> <p>0 to 10% = TRACE</p> <p>>10 to 20% = LITTLE</p> <p>>20 to 35% = SOME</p> <p>>35 to 50% = AND</p> <p>> 50% = MAJOR</p> </div> <div> <p>ft = feet</p> <p>hrs = hours</p> <p>ppm = parts per million</p> </div> </div>					

Weston Solutions, Inc.		SOIL BORING LOG		Page 1 of 1	
Project/Site	Ried Cleaners Site	Boring ID	SB-05	Groundwater Levels	
Location	Great Barrington, MA	Well ID	N/A	Date	Depth (ft)
Date Drilled	9-Dec-2019	Drilling Method	Direct Push	N/A	N/A
Drilling Company	Weston Solutions, Inc.	Sampling Method	4-ft Macrocore		
Drill Rig Type	Electric Hammer	Completion Depth	5.5 ft bgs		
Foreman	Tyler Evans	Surface Elevation	N/A		
Logged by Chris Dupree, Weston, Superfund Technical Assessment and Response Team (START)					
Depth (ft bgs)	Recovery (inches)	Soil Description*			PID (ppm)
1__	32	0-2" DEBRIS (Asphalt) and GRAVEL.			0.0
2__		2-30" Brown/dark brown fine to coarse SAND and SILT, trace fine to coarse gravel, trace debris (asphalt, concrete). Wet.			
3__					
4__		30-37" Light gray fine to coarse SAND/pulverized stone. Wet.			
5__	16	0-4" Dark brown fine to coarse SAND and fine GRAVEL.			0.0
6__		4-6" Brown SILT and fine to coarse SAND.			
		6-16" Light brown/gray SILT and CLAY, trace fine gravel.			
-End of Boring at 5.5 feet-					
Sample Collection Details					
<div style="display: flex; justify-content: space-between;"> <div> <p>Sample SB-05A: Collected from 2-8" interval at 1455 hrs.</p> <p>Sample SB-05B: Collected from 8-16" interval at 1457 hrs.</p> <p>Sample SB-05C: Collected from 16-24" interval at 1500 hrs.</p> <p>Sample SB-05D: Collected from 24-30" interval at 1502 hrs.</p> <p>Sample SB-05E: Collected from 0-8" interval at 1512 hrs.</p> <p>Sample SB-05F: Collected from 8-16" interval at 1515 hrs.</p> <p>Notes:</p> <p>Sample SB-05F is a MS/MSD.</p> <p>bgs = below ground surface</p> <p>N/A = Not Applicable</p> <p>PID = Photoionization detector</p> <p>* = Burmister Soil Classification System</p> </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p style="text-align: center;">PROPORTIONS USED (by DRY WEIGHT)</p> <p>0 to 10% = TRACE</p> <p>>10 to 20% = LITTLE</p> <p>>20 to 35% = SOME</p> <p>>35 to 50% = AND</p> <p>> 50% = MAJOR</p> </div> <div> <p>ft = feet</p> <p>hrs = hours</p> <p>ppm = parts per million</p> </div> </div>					

Weston Solutions, Inc.		SOIL BORING LOG		Page 1 of 1	
Project/Site	Ried Cleaners Site	Boring ID	SB-06	Groundwater Levels	
Location	Great Barrington, MA	Well ID	N/A	Date	Depth (ft)
Date Drilled	9-Dec-2019	Drilling Method	Direct Push	N/A	N/A
Drilling Company	Weston Solutions, Inc.	Sampling Method	4-ft Macrocore		
Drill Rig Type	Electric Hammer	Completion Depth	5.5 ft bgs		
Foreman	Tyler Evans	Surface Elevation	N/A		
Logged by Chris Dupree, Weston, Superfund Technical Assessment and Response Team (START)					
Depth (ft bgs)	Recovery (inches)	Soil Description*			PID (ppm)
1__	32	0-23" Dark brown SILT and fine to coarse SAND, little fine to coarse gravel, trace debris (asphalt, slag).			1.7
2__					1.5
3__					
4__					6.2
5__	25	0-6" Dark brown SILT and fine to coarse SAND, trace organics. Wet.			1.5
6__		6-12" Orange brown fine to coarse SAND, trace fine to coarse gravel.			
		12-25" Light brown and gray SILT, some clay, some fine to coarse sand, trace fine to coarse gravel.			2.6
-End of Boring at 5.5 feet-					
Sample Collection Details					
<div style="display: flex; justify-content: space-between;"> <div> <p>Sample SB-06A: Collected from 0 - 8" interval at 1535 hrs.</p> <p>Sample SB-06B: Collected from 8 - 16" interval at 1537 hrs.</p> <p>Sample SB-06C: Collected from 16 - 24" interval at 1540 hrs.</p> <p>Sample SB-06D: Collected from 24 - 32" interval at 1542 hrs.</p> <p>Sample SB-06E: Collected from 0 - 12" interval at 1543 hrs.</p> <p>Sample SB-06F: Collected from 12 - 25" interval at 1545 hrs.</p> <p>Notes: Sample SB-106F is a duplicate of SB-06F. bgs = below ground surface N/A = Not Applicable PID = Photoionization detector * = Burmister Soil Classification System</p> </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p style="text-align: center;">PROPORTIONS USED (by DRY WEIGHT)</p> <p>0 to 10% = TRACE >10 to 20% = LITTLE >20 to 35% = SOME >35 to 50% = AND > 50% = MAJOR</p> </div> <div> <p>ft = feet hrs = hours ppm = parts per million</p> </div> </div>					

Appendix D

Photodocumentation Log

PHOTODOCUMENTATION LOG
Ried Cleaners Site • Great Barrington, Massachusetts



SCENE: View of the front of the Ried Cleaners building, and DigSafe pre-marking. Photograph taken facing northwest.

DATE: 6 November 2019

TIME: 1139 hours

PHOTOGRAPHER: Eric Ackerman

CAMERA: Apple iPhone 8

TOP



SCENE: View of soil boring locations SB-03 (left/background) and SB-06 (right/foreground). Photograph taken facing south.

DATE: 9 December 2019

TIME: 1520 hours

PHOTOGRAPHER: Bonnie Mace

CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
Ried Cleaners Site • Great Barrington, Massachusetts

TOP



SCENE: View of soil boring location SB-01 (wooden stake), located near a groundwater monitoring well (groundwater sample location GW-06) on the western side of the property. Photograph taken facing southwest.

DATE: 9 December 2019

TIME: 1520 hours

PHOTOGRAPHER: Bonnie Mace

CAMERA: Apple iPhone 8

TOP



SCENE: View of soil boring location SB-03. Photograph taken facing south.

DATE: 9 December 2019

TIME: 1520 hours

PHOTOGRAPHER: Bonnie Mace

CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
Ried Cleaners Site • Great Barrington, Massachusetts

TOP



SCENE: View of soil boring location SB-04, located along the southern property border. Photograph taken facing south.

DATE: 9 December 2019

TIME: 1521 hours

PHOTOGRAPHER: Bonnie Mace

CAMERA: Apple iPhone 8

TOP



SCENE: View of soil boring location SB-05, located near the parking signs for the adjacent bank. Photograph taken facing northeast.

DATE: 9 December 2019

TIME: 1522 hours

PHOTOGRAPHER: Bonnie Mace

CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
Ried Cleaners Site • Great Barrington, Massachusetts

TOP



SCENE: View of groundwater sample location GW-01, in the library parking lot. The library is located southeast and across the street from the Site. Photograph taken facing south.

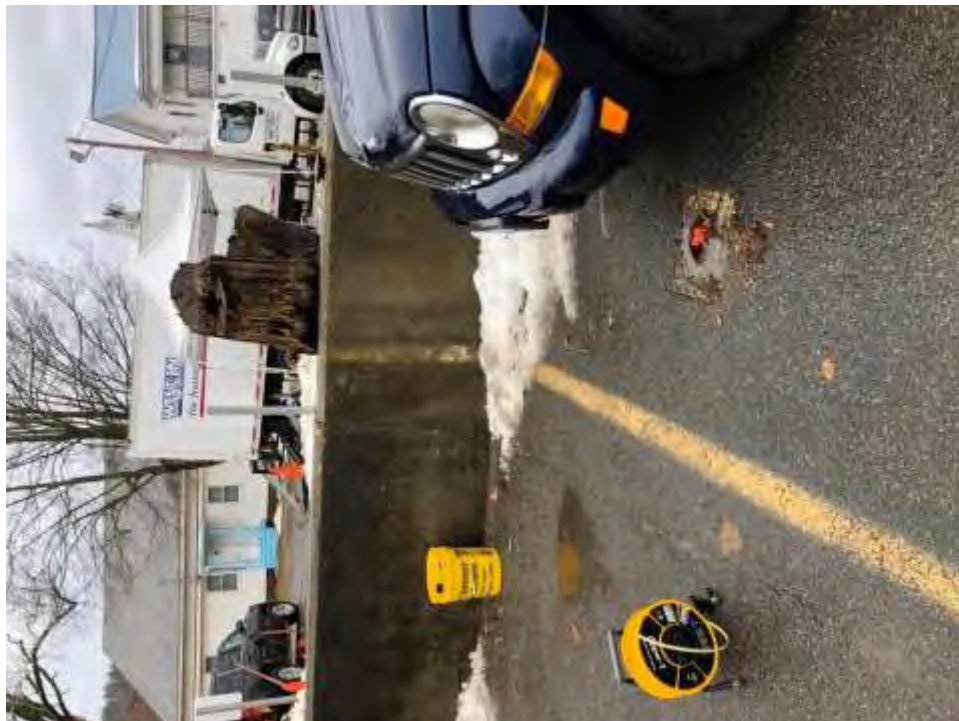
DATE: 10 December 2019

PHOTOGRAPHER: Bonnie Mace

TIME: 1009 hours

CAMERA: Apple iPhone 8

TOP



SCENE: View of groundwater sample location GW-10, located along the northern side of the Post Office parking lot. Photograph taken facing north.

DATE: 10 December 2019

PHOTOGRAPHER: Bonnie Mace

TIME: 1443 hours

CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
Ried Cleaners Site • Great Barrington, Massachusetts



SCENE: View of groundwater sample location GW-08, located on the northern side of the Post Office building in the Post Office parking lot. Photograph taken facing south.

DATE: 10 December 2019

PHOTOGRAPHER: Bonnie Mace

TIME: 1450 hours

CAMERA: Apple iPhone 8



SCENE: View of groundwater sample location GW-09, located on the southern side of the Ried Cleaners building in the Post Office parking lot. Photograph taken facing north.

DATE: 10 December 2019

PHOTOGRAPHER: Bonnie Mace

TIME: 1450 hours

CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
Ried Cleaners Site • Great Barrington, Massachusetts



SCENE: View of groundwater sample location GW-07, located near the northwest entrance to the bank parking lot. The Ried Cleaners building and Post Office building are visible in the background. Photograph taken facing southeast.

DATE: 10 December 2019

TIME: 1523 hours

PHOTOGRAPHER: Bonnie Mace

CAMERA: Apple iPhone 8



SCENE: View of groundwater sample location GW-11, located near the back door and basement entrance of the Ried Cleaners building. Photograph taken facing east.

DATE: 10 December 2019

TIME: 1527 hours

PHOTOGRAPHER: Bonnie Mace

CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
Ried Cleaners Site • Great Barrington, Massachusetts



SCENE: View of groundwater sample locations GW-02, GW-03, GW-04, and GW-05 (under cone), located in the paved and unpaved areas on the western portion of the Ried Cleaners property. Photograph taken facing east.

DATE: 10 December 2019

TIME: 1601 hours

PHOTOGRAPHER: Bonnie Mace

CAMERA: Apple iPhone 8

Appendix E

Analytical Data and Chain-of-Custody Records



Laboratory Report

January 06, 2020

Mike Cofsky - Mail Code 02-2
US EPA New England R1

Project Number: 19120013
Project: Ried Cleaners - Great Barrington, MA
Analysis: VOAs in Soil High Level Method
EPA Chemist: Allison Connors

Date Samples Received by the Laboratory: 12/11/2019

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, LSBSOP-VOAGCMS10.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar preconcentrator and an Archon auto-sampler. The analysis SOP is based on US EPA Method 8260B, revision 2.0, 1996 and Method 5035A, draft revision 1, 2002, from SW-846.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by DANIEL BOUDREAU
DN: c=US, o=U.S. Government,
ou=Environmental Protection Agency,
cn=DANIEL BOUDREAU,
0.9.2342.19200300.100.1.1=6800100365455
8
Date: 2020.01.06 16:23:10 -05'00'

19120013\$VOAHS

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C = The identification has been confirmed by GC/MS.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0001
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 5 grams
Wet Weight Prepared: 5 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84794
Matrix: Lab Sand
Amount Prepared: 5 mL
Percent Solids: 100%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	50	
75-01-4	Vinyl Chloride	ND	50	
74-83-9	Bromomethane	ND	50	
75-00-3	Chloroethane	ND	50	
75-69-4	Trichlorofluoromethane	ND	50	
60-29-7	Ethyl Ether	ND	50	
67-64-1	2-Propanone (acetone)	5100	1000	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	50	
75-35-4	1,1-Dichloroethylene	780	50	
75-15-0	Carbon Disulfide	ND	50	
75-71-8	Dichlorodifluoromethane	ND	50	
75-09-2	Methylene Chloride	ND	50	
107-13-1	Acrylonitrile	ND	50	
1634-04-4	Methyl-t-Butyl Ether	ND	50	
156-60-5	Trans-1,2-Dichloroethylene	4800	200	
75-34-3	1,1-dichloroethane	ND	50	
108-05-4	Vinyl Acetate	ND	50	
78-93-3	2-Butanone (MEK)	ND	50	
594-20-7	2,2-Dichloropropane	ND	50	
156-59-2	cis-1,2-Dichloroethylene	ND	50	
67-66-3	Chloroform	ND	50	
74-97-5	Bromochloromethane	ND	50	
109-99-9	Tetrahydrofuran	ND	50	
71-55-6	1,1,1-Trichloroethane	7800	200	
107-06-2	1,2-Dichloroethane	ND	50	
56-23-5	Carbon tetrachloride	ND	50	
71-43-2	Benzene	4900	200	
10061-01-5	c-1,3-dichloropropene	ND	50	
108-88-3	Toluene	6100	200	
10061-02-6	t-1,3-Dichloropropene	ND	50	
79-00-5	1,1,2-Trichloroethane	3600	50	
124-48-1	Dibromochloromethane	ND	50	
108-90-7	Chlorobenzene	4700	200	
563-58-6	1,1-Dichloropropene	ND	50	
79-01-6	Trichloroethylene	8400	200	
78-87-5	1,2-Dichloropropane	4500	50	
75-27-4	Bromodichloromethane	3500	50	
74-95-3	Dibromomethane	ND	50	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	50	
142-28-9	1,3-Dichloropropane	ND	50	
127-18-4	Tetrachloroethylene	3100	50	
106-93-4	1,2-Dibromoethane	3100	50	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0001
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 5 grams
Wet Weight Prepared: 5 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84794
Matrix: Lab Sand
Amount Prepared: 5 mL
Percent Solids: 100%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	5600	200	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	
100-41-4	Ethylbenzene	4300	50	
108-38-3/106-42-3	M/P Xylene	5500	100	
95-47-6	Ortho Xylene	1200	50	
100-42-5	Styrene	4700	50	
75-25-2	Bromoform	ND	50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	
98-82-8	Isopropylbenzene	6300	200	
108-86-1	Bromobenzene	ND	50	
96-18-4	1,2,3-Trichloropropane	ND	50	
103-65-1	N-Propylbenzene	ND	50	
95-49-8	2-Chlorotoluene	ND	50	
106-43-4	4-Chlorotoluene	ND	50	
98-06-6	Tert-Butylbenzene	ND	50	
108-67-8	1,3,5-Trimethylbenzene	ND	50	
95-63-6	1,2,4-Trimethylbenzene	ND	50	
135-98-8	Sec-Butylbenzene	ND	50	
541-73-1	1,3-Dichlorobenzene	3200	50	
99-87-6	Para-Isopropyltoluene	ND	50	
106-46-7	1,4-Dichlorobenzene	2500	50	
95-50-1	1,2-Dichlorobenzene	1600	50	
104-51-8	N-Butylbenzene	ND	50	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	50	
120-82-1	1,2,4-Trichlorobenzene	4400	50	
87-68-3	Hexachlorobutadiene	ND	50	
91-20-3	Naphthalene	ND	50	
87-61-6	1,2,3-Trichlorobenzene	3200	50	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	100	84 - 118
1,4-Bromofluorobenzene	100	56 - 125

Comments: Results are reported from both 50x and 200x dilutions. The 200x dilution was prepared and analyzed on 12/18/19.

J-estimated value due to failure to meet continuing calibration criterion.

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0002
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: N/A

Lab Sample ID: AB84795
Matrix: Rinseate Blank
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: N/A
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0002
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: N/A

Lab Sample ID: AB84795
Matrix: Rinseate Blank
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: N/A
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	103	85 - 131
Toluene-D8	100	84 - 118
1,4-Bromofluorobenzene	100	56 - 125

Comments: Rinsate blank sample reported in ug/L

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0003
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 7.980 grams
Wet Weight Prepared: 8.966 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84796
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 89%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	69	
75-01-4	Vinyl Chloride	ND	69	
74-83-9	Bromomethane	ND	69	
75-00-3	Chloroethane	ND	69	
75-69-4	Trichlorofluoromethane	ND	69	
60-29-7	Ethyl Ether	ND	69	
67-64-1	2-Propanone (acetone)	ND	350	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	69	
75-35-4	1,1-Dichloroethylene	ND	69	
75-15-0	Carbon Disulfide	ND	69	
75-71-8	Dichlorodifluoromethane	ND	69	
75-09-2	Methylene Chloride	ND	69	
107-13-1	Acrylonitrile	ND	69	
1634-04-4	Methyl-t-Butyl Ether	ND	69	
156-60-5	Trans-1,2-Dichloroethylene	ND	69	
75-34-3	1,1-dichloroethane	ND	69	
108-05-4	Vinyl Acetate	ND	69	
78-93-3	2-Butanone (MEK)	ND	69	
594-20-7	2,2-Dichloropropane	ND	69	
156-59-2	cis-1,2-Dichloroethylene	ND	69	
67-66-3	Chloroform	ND	69	
74-97-5	Bromochloromethane	ND	69	
109-99-9	Tetrahydrofuran	ND	69	
71-55-6	1,1,1-Trichloroethane	ND	69	
107-06-2	1,2-Dichloroethane	ND	69	
56-23-5	Carbon tetrachloride	ND	69	
71-43-2	Benzene	ND	69	
10061-01-5	c-1,3-dichloropropene	ND	69	
108-88-3	Toluene	ND	69	
10061-02-6	t-1,3-Dichloropropene	ND	69	
79-00-5	1,1,2-Trichloroethane	ND	69	
124-48-1	Dibromochloromethane	ND	69	
108-90-7	Chlorobenzene	ND	69	
563-58-6	1,1-Dichloropropene	ND	69	
79-01-6	Trichloroethylene	ND	69	
78-87-5	1,2-Dichloropropane	ND	69	
75-27-4	Bromodichloromethane	ND	69	
74-95-3	Dibromomethane	ND	69	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	69	
142-28-9	1,3-Dichloropropane	ND	69	
127-18-4	Tetrachloroethylene	ND	69	
106-93-4	1,2-Dibromoethane	ND	69	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0003
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 7.980 grams
Wet Weight Prepared: 8.966 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84796
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 89%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	69	
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	
100-41-4	Ethylbenzene	ND	69	
108-38-3/106-42-3	M/P Xylene	ND	140	
95-47-6	Ortho Xylene	ND	69	
100-42-5	Styrene	ND	69	
75-25-2	Bromoform	ND	69	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	
98-82-8	Isopropylbenzene	ND	69	
108-86-1	Bromobenzene	ND	69	
96-18-4	1,2,3-Trichloropropane	ND	69	
103-65-1	N-Propylbenzene	ND	69	
95-49-8	2-Chlorotoluene	ND	69	
106-43-4	4-Chlorotoluene	ND	69	
98-06-6	Tert-Butylbenzene	ND	69	
108-67-8	1,3,5-Trimethylbenzene	ND	69	
95-63-6	1,2,4-Trimethylbenzene	ND	69	
135-98-8	Sec-Butylbenzene	ND	69	
541-73-1	1,3-Dichlorobenzene	ND	69	
99-87-6	Para-Isopropyltoluene	ND	69	
106-46-7	1,4-Dichlorobenzene	ND	69	
95-50-1	1,2-Dichlorobenzene	ND	69	
104-51-8	N-Butylbenzene	ND	69	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	69	
120-82-1	1,2,4-Trichlorobenzene	ND	69	
87-68-3	Hexachlorobutadiene	ND	69	
91-20-3	Naphthalene	ND	69	
87-61-6	1,2,3-Trichlorobenzene	ND	69	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	85 - 131
Toluene-D8	99	84 - 118
1,4-Bromofluorobenzene	98	56 - 125

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/16/2019	Amount Prepared:	5 mL
Date of Analysis:	12/16/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/16/2019	Amount Prepared:	5 mL
Date of Analysis:	12/16/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	1.7	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	100	84 - 118
1,4-Bromofluorobenzene	99	56 - 125

Comments: Method Blank for AB84795, AB84794, AB84796, AB84797, and AB84798

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0004
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 8.683 grams
Wet Weight Prepared: 10.215 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84797
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	66	
75-01-4	Vinyl Chloride	ND	66	
74-83-9	Bromomethane	ND	66	
75-00-3	Chloroethane	ND	66	
75-69-4	Trichlorofluoromethane	ND	66	
60-29-7	Ethyl Ether	ND	66	
67-64-1	2-Propanone (acetone)	ND	330	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	66	
75-35-4	1,1-Dichloroethylene	ND	66	
75-15-0	Carbon Disulfide	ND	66	
75-71-8	Dichlorodifluoromethane	ND	66	
75-09-2	Methylene Chloride	ND	66	
107-13-1	Acrylonitrile	ND	66	
1634-04-4	Methyl-t-Butyl Ether	ND	66	
156-60-5	Trans-1,2-Dichloroethylene	ND	66	
75-34-3	1,1-dichloroethane	ND	66	
108-05-4	Vinyl Acetate	ND	66	
78-93-3	2-Butanone (MEK)	ND	66	
594-20-7	2,2-Dichloropropane	ND	66	
156-59-2	cis-1,2-Dichloroethylene	ND	66	
67-66-3	Chloroform	ND	66	
74-97-5	Bromochloromethane	ND	66	
109-99-9	Tetrahydrofuran	ND	66	
71-55-6	1,1,1-Trichloroethane	ND	66	
107-06-2	1,2-Dichloroethane	ND	66	
56-23-5	Carbon tetrachloride	ND	66	
71-43-2	Benzene	ND	66	
10061-01-5	c-1,3-dichloropropene	ND	66	
108-88-3	Toluene	ND	66	
10061-02-6	t-1,3-Dichloropropene	ND	66	
79-00-5	1,1,2-Trichloroethane	ND	66	
124-48-1	Dibromochloromethane	ND	66	
108-90-7	Chlorobenzene	ND	66	
563-58-6	1,1-Dichloropropene	ND	66	
79-01-6	Trichloroethylene	ND	66	
78-87-5	1,2-Dichloropropane	ND	66	
75-27-4	Bromodichloromethane	ND	66	
74-95-3	Dibromomethane	ND	66	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	66	
142-28-9	1,3-Dichloropropane	ND	66	
127-18-4	Tetrachloroethylene	2200	66	
106-93-4	1,2-Dibromoethane	ND	66	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0004
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 8.683 grams
Wet Weight Prepared: 10.215 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84797
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	66	
630-20-6	1,1,1,2-Tetrachloroethane	ND	66	
100-41-4	Ethylbenzene	ND	66	
108-38-3/106-42-3	M/P Xylene	ND	130	
95-47-6	Ortho Xylene	ND	66	
100-42-5	Styrene	ND	66	
75-25-2	Bromoform	ND	66	
79-34-5	1,1,2,2-Tetrachloroethane	ND	66	
98-82-8	Isopropylbenzene	ND	66	
108-86-1	Bromobenzene	ND	66	
96-18-4	1,2,3-Trichloropropane	ND	66	
103-65-1	N-Propylbenzene	ND	66	
95-49-8	2-Chlorotoluene	ND	66	
106-43-4	4-Chlorotoluene	ND	66	
98-06-6	Tert-Butylbenzene	ND	66	
108-67-8	1,3,5-Trimethylbenzene	ND	66	
95-63-6	1,2,4-Trimethylbenzene	ND	66	
135-98-8	Sec-Butylbenzene	ND	66	
541-73-1	1,3-Dichlorobenzene	ND	66	
99-87-6	Para-Isopropyltoluene	ND	66	
106-46-7	1,4-Dichlorobenzene	ND	66	
95-50-1	1,2-Dichlorobenzene	ND	66	
104-51-8	N-Butylbenzene	ND	66	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	66	
120-82-1	1,2,4-Trichlorobenzene	ND	66	
87-68-3	Hexachlorobutadiene	ND	66	
91-20-3	Naphthalene	ND	66	
87-61-6	1,2,3-Trichlorobenzene	ND	66	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	85 - 131
Toluene-D8	99	84 - 118
1,4-Bromofluorobenzene	100	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0005
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 10.141 grams
Wet Weight Prepared: 11.656 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84798
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 100
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	110	
75-01-4	Vinyl Chloride	ND	110	
74-83-9	Bromomethane	ND	110	
75-00-3	Chloroethane	ND	110	
75-69-4	Trichlorofluoromethane	ND	110	
60-29-7	Ethyl Ether	ND	110	
67-64-1	2-Propanone (acetone)	ND	550	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	110	
75-35-4	1,1-Dichloroethylene	ND	110	
75-15-0	Carbon Disulfide	ND	110	
75-71-8	Dichlorodifluoromethane	ND	110	
75-09-2	Methylene Chloride	ND	110	
107-13-1	Acrylonitrile	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	110	
156-60-5	Trans-1,2-Dichloroethylene	ND	110	
75-34-3	1,1-dichloroethane	ND	110	
108-05-4	Vinyl Acetate	ND	110	
78-93-3	2-Butanone (MEK)	ND	110	
594-20-7	2,2-Dichloropropane	ND	110	
156-59-2	cis-1,2-Dichloroethylene	ND	110	
67-66-3	Chloroform	ND	110	
74-97-5	Bromochloromethane	ND	110	
109-99-9	Tetrahydrofuran	ND	110	
71-55-6	1,1,1-Trichloroethane	ND	110	
107-06-2	1,2-Dichloroethane	ND	110	
56-23-5	Carbon tetrachloride	ND	110	
71-43-2	Benzene	ND	110	
10061-01-5	c-1,3-dichloropropene	ND	110	
108-88-3	Toluene	ND	110	
10061-02-6	t-1,3-Dichloropropene	ND	110	
79-00-5	1,1,2-Trichloroethane	ND	110	
124-48-1	Dibromochloromethane	ND	110	
108-90-7	Chlorobenzene	ND	110	
563-58-6	1,1-Dichloropropene	ND	110	
79-01-6	Trichloroethylene	ND	110	
78-87-5	1,2-Dichloropropane	ND	110	
75-27-4	Bromodichloromethane	ND	110	
74-95-3	Dibromomethane	ND	110	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	110	
142-28-9	1,3-Dichloropropane	ND	110	
127-18-4	Tetrachloroethylene	6600	110	
106-93-4	1,2-Dibromoethane	ND	110	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0005
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 10.141 grams
Wet Weight Prepared: 11.656 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84798
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 100
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	110	
630-20-6	1,1,1,2-Tetrachloroethane	ND	110	
100-41-4	Ethylbenzene	ND	110	
108-38-3/106-42-3	M/P Xylene	ND	220	
95-47-6	Ortho Xylene	ND	110	
100-42-5	Styrene	ND	110	
75-25-2	Bromoform	ND	110	
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	
98-82-8	Isopropylbenzene	ND	110	
108-86-1	Bromobenzene	ND	110	
96-18-4	1,2,3-Trichloropropane	ND	110	
103-65-1	N-Propylbenzene	ND	110	
95-49-8	2-Chlorotoluene	ND	110	
106-43-4	4-Chlorotoluene	ND	110	
98-06-6	Tert-Butylbenzene	ND	110	
108-67-8	1,3,5-Trimethylbenzene	ND	110	
95-63-6	1,2,4-Trimethylbenzene	ND	110	
135-98-8	Sec-Butylbenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-87-6	Para-Isopropyltoluene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
104-51-8	N-Butylbenzene	ND	110	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
91-20-3	Naphthalene	ND	110	
87-61-6	1,2,3-Trichlorobenzene	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	98	85 - 131
Toluene-D8	98	84 - 118
1,4-Bromofluorobenzene	98	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0006
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 7.829 grams
Wet Weight Prepared: 10.439 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84799
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 75%
Extract Dilution: 250
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	400	
75-01-4	Vinyl Chloride	ND	400	
74-83-9	Bromomethane	ND	400	
75-00-3	Chloroethane	ND	400	
75-69-4	Trichlorofluoromethane	ND	400	
60-29-7	Ethyl Ether	ND	400	
67-64-1	2-Propanone (acetone)	ND	2000	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	400	
75-35-4	1,1-Dichloroethylene	ND	400	
75-15-0	Carbon Disulfide	ND	400	
75-71-8	Dichlorodifluoromethane	ND	400	
75-09-2	Methylene Chloride	ND	400	
107-13-1	Acrylonitrile	ND	400	
1634-04-4	Methyl-t-Butyl Ether	ND	400	
156-60-5	Trans-1,2-Dichloroethylene	ND	400	
75-34-3	1,1-dichloroethane	ND	400	
108-05-4	Vinyl Acetate	ND	400	
78-93-3	2-Butanone (MEK)	ND	400	
594-20-7	2,2-Dichloropropane	ND	400	
156-59-2	cis-1,2-Dichloroethylene	ND	400	
67-66-3	Chloroform	ND	400	
74-97-5	Bromochloromethane	ND	400	
109-99-9	Tetrahydrofuran	ND	400	
71-55-6	1,1,1-Trichloroethane	ND	400	
107-06-2	1,2-Dichloroethane	ND	400	
56-23-5	Carbon tetrachloride	ND	400	
71-43-2	Benzene	ND	400	
10061-01-5	c-1,3-dichloropropene	ND	400	
108-88-3	Toluene	ND	400	
10061-02-6	t-1,3-Dichloropropene	ND	400	
79-00-5	1,1,2-Trichloroethane	ND	400	
124-48-1	Dibromochloromethane	ND	400	
108-90-7	Chlorobenzene	ND	400	
563-58-6	1,1-Dichloropropene	ND	400	
79-01-6	Trichloroethylene	560	400	
78-87-5	1,2-Dichloropropane	ND	400	
75-27-4	Bromodichloromethane	ND	400	
74-95-3	Dibromomethane	ND	400	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	400	
142-28-9	1,3-Dichloropropane	ND	400	
127-18-4	Tetrachloroethylene	34000	800	
106-93-4	1,2-Dibromoethane	ND	400	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0006
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 7.829 grams
Wet Weight Prepared: 10.439 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84799
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 75%
Extract Dilution: 250
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	400	
630-20-6	1,1,1,2-Tetrachloroethane	ND	400	
100-41-4	Ethylbenzene	ND	400	
108-38-3/106-42-3	M/P Xylene	ND	800	
95-47-6	Ortho Xylene	ND	400	
100-42-5	Styrene	ND	400	
75-25-2	Bromoform	ND	400	
79-34-5	1,1,2,2-Tetrachloroethane	ND	400	
98-82-8	Isopropylbenzene	ND	400	
108-86-1	Bromobenzene	ND	400	
96-18-4	1,2,3-Trichloropropane	ND	400	
103-65-1	N-Propylbenzene	ND	400	
95-49-8	2-Chlorotoluene	ND	400	
106-43-4	4-Chlorotoluene	ND	400	
98-06-6	Tert-Butylbenzene	ND	400	
108-67-8	1,3,5-Trimethylbenzene	ND	400	
95-63-6	1,2,4-Trimethylbenzene	ND	400	
135-98-8	Sec-Butylbenzene	ND	400	
541-73-1	1,3-Dichlorobenzene	ND	400	
99-87-6	Para-Isopropyltoluene	ND	400	
106-46-7	1,4-Dichlorobenzene	ND	400	
95-50-1	1,2-Dichlorobenzene	ND	400	
104-51-8	N-Butylbenzene	ND	400	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	400	
120-82-1	1,2,4-Trichlorobenzene	ND	400	
87-68-3	Hexachlorobutadiene	ND	400	
91-20-3	Naphthalene	ND	400	
87-61-6	1,2,3-Trichlorobenzene	ND	400	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	99	84 - 118
1,4-Bromofluorobenzene	98	56 - 125

Comments: Tetrachloroethylene result is reported from 500x dilution prepared and analyzed on 12/17/19

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0007
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 7.178 grams
Wet Weight Prepared: 10.403 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84800
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 69%
Extract Dilution: 500
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	920	
75-01-4	Vinyl Chloride	ND	920	
74-83-9	Bromomethane	ND	920	
75-00-3	Chloroethane	ND	920	
75-69-4	Trichlorofluoromethane	ND	920	
60-29-7	Ethyl Ether	ND	920	
67-64-1	2-Propanone (acetone)	ND	4600	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	920	
75-35-4	1,1-Dichloroethylene	ND	920	
75-15-0	Carbon Disulfide	ND	920	
75-71-8	Dichlorodifluoromethane	ND	920	
75-09-2	Methylene Chloride	ND	920	
107-13-1	Acrylonitrile	ND	920	
1634-04-4	Methyl-t-Butyl Ether	ND	920	
156-60-5	Trans-1,2-Dichloroethylene	ND	920	
75-34-3	1,1-dichloroethane	ND	920	
108-05-4	Vinyl Acetate	ND	920	
78-93-3	2-Butanone (MEK)	ND	920	
594-20-7	2,2-Dichloropropane	ND	920	
156-59-2	cis-1,2-Dichloroethylene	ND	920	
67-66-3	Chloroform	ND	920	
74-97-5	Bromochloromethane	ND	920	
109-99-9	Tetrahydrofuran	ND	920	
71-55-6	1,1,1-Trichloroethane	ND	920	
107-06-2	1,2-Dichloroethane	ND	920	
56-23-5	Carbon tetrachloride	ND	920	
71-43-2	Benzene	ND	920	
10061-01-5	c-1,3-dichloropropene	ND	920	
108-88-3	Toluene	ND	920	
10061-02-6	t-1,3-Dichloropropene	ND	920	
79-00-5	1,1,2-Trichloroethane	ND	920	
124-48-1	Dibromochloromethane	ND	920	
108-90-7	Chlorobenzene	ND	920	
563-58-6	1,1-Dichloropropene	ND	920	
79-01-6	Trichloroethylene	1000	920	
78-87-5	1,2-Dichloropropane	ND	920	
75-27-4	Bromodichloromethane	ND	920	
74-95-3	Dibromomethane	ND	920	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	920	
142-28-9	1,3-Dichloropropane	ND	920	
127-18-4	Tetrachloroethylene	76000	920	
106-93-4	1,2-Dibromoethane	ND	920	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0007
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 7.178 grams
Wet Weight Prepared: 10.403 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84800
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 69%
Extract Dilution: 500
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	920	
630-20-6	1,1,1,2-Tetrachloroethane	ND	920	
100-41-4	Ethylbenzene	ND	920	
108-38-3/106-42-3	M/P Xylene	ND	1800	
95-47-6	Ortho Xylene	ND	920	
100-42-5	Styrene	ND	920	
75-25-2	Bromoform	ND	920	
79-34-5	1,1,2,2-Tetrachloroethane	ND	920	
98-82-8	Isopropylbenzene	ND	920	
108-86-1	Bromobenzene	ND	920	
96-18-4	1,2,3-Trichloropropane	ND	920	
103-65-1	N-Propylbenzene	ND	920	
95-49-8	2-Chlorotoluene	ND	920	
106-43-4	4-Chlorotoluene	ND	920	
98-06-6	Tert-Butylbenzene	ND	920	
108-67-8	1,3,5-Trimethylbenzene	ND	920	
95-63-6	1,2,4-Trimethylbenzene	ND	920	
135-98-8	Sec-Butylbenzene	ND	920	
541-73-1	1,3-Dichlorobenzene	ND	920	
99-87-6	Para-Isopropyltoluene	ND	920	
106-46-7	1,4-Dichlorobenzene	ND	920	
95-50-1	1,2-Dichlorobenzene	ND	920	
104-51-8	N-Butylbenzene	ND	920	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	920	
120-82-1	1,2,4-Trichlorobenzene	ND	920	
87-68-3	Hexachlorobutadiene	ND	920	
91-20-3	Naphthalene	ND	920	
87-61-6	1,2,3-Trichlorobenzene	ND	920	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	85 - 131
Toluene-D8	99	84 - 118
1,4-Bromofluorobenzene	98	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0008
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 8.041 grams
Wet Weight Prepared: 9.243 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84801
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 500
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	700	
75-01-4	Vinyl Chloride	ND	700	
74-83-9	Bromomethane	ND	700	
75-00-3	Chloroethane	ND	700	
75-69-4	Trichlorofluoromethane	ND	700	
60-29-7	Ethyl Ether	ND	700	
67-64-1	2-Propanone (acetone)	ND	3500	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	700	
75-35-4	1,1-Dichloroethylene	ND	700	
75-15-0	Carbon Disulfide	ND	700	
75-71-8	Dichlorodifluoromethane	ND	700	
75-09-2	Methylene Chloride	ND	700	
107-13-1	Acrylonitrile	ND	700	
1634-04-4	Methyl-t-Butyl Ether	ND	700	
156-60-5	Trans-1,2-Dichloroethylene	ND	700	
75-34-3	1,1-dichloroethane	ND	700	
108-05-4	Vinyl Acetate	ND	700	
78-93-3	2-Butanone (MEK)	ND	700	
594-20-7	2,2-Dichloropropane	ND	700	
156-59-2	cis-1,2-Dichloroethylene	ND	700	
67-66-3	Chloroform	ND	700	
74-97-5	Bromochloromethane	ND	700	
109-99-9	Tetrahydrofuran	ND	700	
71-55-6	1,1,1-Trichloroethane	ND	700	
107-06-2	1,2-Dichloroethane	ND	700	
56-23-5	Carbon tetrachloride	ND	700	
71-43-2	Benzene	ND	700	
10061-01-5	c-1,3-dichloropropene	ND	700	
108-88-3	Toluene	ND	700	
10061-02-6	t-1,3-Dichloropropene	ND	700	
79-00-5	1,1,2-Trichloroethane	ND	700	
124-48-1	Dibromochloromethane	ND	700	
108-90-7	Chlorobenzene	ND	700	
563-58-6	1,1-Dichloropropene	ND	700	
79-01-6	Trichloroethylene	ND	700	
78-87-5	1,2-Dichloropropane	ND	700	
75-27-4	Bromodichloromethane	ND	700	
74-95-3	Dibromomethane	ND	700	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	700	
142-28-9	1,3-Dichloropropane	ND	700	
127-18-4	Tetrachloroethylene	21000	700	
106-93-4	1,2-Dibromoethane	ND	700	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0008
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 8.041 grams
Wet Weight Prepared: 9.243 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84801
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 500
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	700	
630-20-6	1,1,1,2-Tetrachloroethane	ND	700	
100-41-4	Ethylbenzene	ND	700	
108-38-3/106-42-3	M/P Xylene	ND	1400	
95-47-6	Ortho Xylene	ND	700	
100-42-5	Styrene	ND	700	
75-25-2	Bromoform	ND	700	
79-34-5	1,1,2,2-Tetrachloroethane	ND	700	
98-82-8	Isopropylbenzene	ND	700	
108-86-1	Bromobenzene	ND	700	
96-18-4	1,2,3-Trichloropropane	ND	700	
103-65-1	N-Propylbenzene	ND	700	
95-49-8	2-Chlorotoluene	ND	700	
106-43-4	4-Chlorotoluene	ND	700	
98-06-6	Tert-Butylbenzene	ND	700	
108-67-8	1,3,5-Trimethylbenzene	ND	700	
95-63-6	1,2,4-Trimethylbenzene	ND	700	
135-98-8	Sec-Butylbenzene	ND	700	
541-73-1	1,3-Dichlorobenzene	ND	700	
99-87-6	Para-Isopropyltoluene	ND	700	
106-46-7	1,4-Dichlorobenzene	ND	700	
95-50-1	1,2-Dichlorobenzene	ND	700	
104-51-8	N-Butylbenzene	ND	700	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	700	
120-82-1	1,2,4-Trichlorobenzene	ND	700	
87-68-3	Hexachlorobutadiene	ND	700	
91-20-3	Naphthalene	ND	700	
87-61-6	1,2,3-Trichlorobenzene	ND	700	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	103	85 - 131
Toluene-D8	100	84 - 118
1,4-Bromofluorobenzene	104	56 - 125

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/17/2019	Amount Prepared:	5 mL
Date of Analysis:	12/17/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/17/2019	Amount Prepared:	5 mL
Date of Analysis:	12/17/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	103	85 - 131
Toluene-D8	100	84 - 118
1,4-Bromofluorobenzene	100	56 - 125

Comments: Method Blank for AB84801, AB84802, AB84803 and AB84799 (500X)

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0009
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 8.954 grams
Wet Weight Prepared: 10.788 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84802
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 1000
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1300	
75-01-4	Vinyl Chloride	ND	1300	
74-83-9	Bromomethane	ND	1300	
75-00-3	Chloroethane	ND	1300	
75-69-4	Trichlorofluoromethane	ND	1300	
60-29-7	Ethyl Ether	ND	1300	
67-64-1	2-Propanone (acetone)	ND	6500	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1300	
75-35-4	1,1-Dichloroethylene	ND	1300	
75-15-0	Carbon Disulfide	ND	1300	
75-71-8	Dichlorodifluoromethane	ND	1300	
75-09-2	Methylene Chloride	ND	1300	
107-13-1	Acrylonitrile	ND	1300	
1634-04-4	Methyl-t-Butyl Ether	ND	1300	
156-60-5	Trans-1,2-Dichloroethylene	ND	1300	
75-34-3	1,1-dichloroethane	ND	1300	
108-05-4	Vinyl Acetate	ND	1300	
78-93-3	2-Butanone (MEK)	ND	1300	
594-20-7	2,2-Dichloropropane	ND	1300	
156-59-2	cis-1,2-Dichloroethylene	ND	1300	
67-66-3	Chloroform	ND	1300	
74-97-5	Bromochloromethane	ND	1300	
109-99-9	Tetrahydrofuran	ND	1300	
71-55-6	1,1,1-Trichloroethane	ND	1300	
107-06-2	1,2-Dichloroethane	ND	1300	
56-23-5	Carbon tetrachloride	ND	1300	
71-43-2	Benzene	ND	1300	
10061-01-5	c-1,3-dichloropropene	ND	1300	
108-88-3	Toluene	ND	1300	
10061-02-6	t-1,3-Dichloropropene	ND	1300	
79-00-5	1,1,2-Trichloroethane	ND	1300	
124-48-1	Dibromochloromethane	ND	1300	
108-90-7	Chlorobenzene	ND	1300	
563-58-6	1,1-Dichloropropene	ND	1300	
79-01-6	Trichloroethylene	ND	1300	
78-87-5	1,2-Dichloropropane	ND	1300	
75-27-4	Bromodichloromethane	ND	1300	
74-95-3	Dibromomethane	ND	1300	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1300	
142-28-9	1,3-Dichloropropane	ND	1300	
127-18-4	Tetrachloroethylene	20000	1300	
106-93-4	1,2-Dibromoethane	ND	1300	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0009
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 8.954 grams
Wet Weight Prepared: 10.788 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84802
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 1000
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	1300	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1300	
100-41-4	Ethylbenzene	ND	1300	
108-38-3/106-42-3	M/P Xylene	ND	2600	
95-47-6	Ortho Xylene	ND	1300	
100-42-5	Styrene	ND	1300	
75-25-2	Bromoform	ND	1300	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1300	
98-82-8	Isopropylbenzene	ND	1300	
108-86-1	Bromobenzene	ND	1300	
96-18-4	1,2,3-Trichloropropane	ND	1300	
103-65-1	N-Propylbenzene	ND	1300	
95-49-8	2-Chlorotoluene	ND	1300	
106-43-4	4-Chlorotoluene	ND	1300	
98-06-6	Tert-Butylbenzene	ND	1300	
108-67-8	1,3,5-Trimethylbenzene	ND	1300	
95-63-6	1,2,4-Trimethylbenzene	ND	1300	
135-98-8	Sec-Butylbenzene	ND	1300	
541-73-1	1,3-Dichlorobenzene	ND	1300	
99-87-6	Para-Isopropyltoluene	ND	1300	
106-46-7	1,4-Dichlorobenzene	ND	1300	
95-50-1	1,2-Dichlorobenzene	ND	1300	
104-51-8	N-Butylbenzene	ND	1300	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1300	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	
87-68-3	Hexachlorobutadiene	ND	1300	
91-20-3	Naphthalene	ND	1300	
87-61-6	1,2,3-Trichlorobenzene	ND	1300	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	105	85 - 131
Toluene-D8	102	84 - 118
1,4-Bromofluorobenzene	99	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0010
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 4.673 grams
Wet Weight Prepared: 7.189 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84803
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 65%
Extract Dilution: 1000
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	2700	
75-01-4	Vinyl Chloride	ND	2700	
74-83-9	Bromomethane	ND	2700	
75-00-3	Chloroethane	ND	2700	
75-69-4	Trichlorofluoromethane	ND	2700	
60-29-7	Ethyl Ether	ND	2700	
67-64-1	2-Propanone (acetone)	ND	14000	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	2700	
75-35-4	1,1-Dichloroethylene	ND	2700	
75-15-0	Carbon Disulfide	ND	2700	
75-71-8	Dichlorodifluoromethane	ND	2700	
75-09-2	Methylene Chloride	ND	2700	
107-13-1	Acrylonitrile	ND	2700	
1634-04-4	Methyl-t-Butyl Ether	ND	2700	
156-60-5	Trans-1,2-Dichloroethylene	ND	2700	
75-34-3	1,1-dichloroethane	ND	2700	
108-05-4	Vinyl Acetate	ND	2700	
78-93-3	2-Butanone (MEK)	ND	2700	
594-20-7	2,2-Dichloropropane	ND	2700	
156-59-2	cis-1,2-Dichloroethylene	3100	2700	
67-66-3	Chloroform	ND	2700	
74-97-5	Bromochloromethane	ND	2700	
109-99-9	Tetrahydrofuran	ND	2700	
71-55-6	1,1,1-Trichloroethane	ND	2700	
107-06-2	1,2-Dichloroethane	ND	2700	
56-23-5	Carbon tetrachloride	ND	2700	
71-43-2	Benzene	ND	2700	
10061-01-5	c-1,3-dichloropropene	ND	2700	
108-88-3	Toluene	ND	2700	
10061-02-6	t-1,3-Dichloropropene	ND	2700	
79-00-5	1,1,2-Trichloroethane	ND	2700	
124-48-1	Dibromochloromethane	ND	2700	
108-90-7	Chlorobenzene	ND	2700	
563-58-6	1,1-Dichloropropene	ND	2700	
79-01-6	Trichloroethylene	3000	2700	
78-87-5	1,2-Dichloropropane	ND	2700	
75-27-4	Bromodichloromethane	ND	2700	
74-95-3	Dibromomethane	ND	2700	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	2700	
142-28-9	1,3-Dichloropropane	ND	2700	
127-18-4	Tetrachloroethylene	310000	5400	
106-93-4	1,2-Dibromoethane	ND	2700	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0010
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 4.673 grams
Wet Weight Prepared: 7.189 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84803
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 65%
Extract Dilution: 1000
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	2700	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2700	
100-41-4	Ethylbenzene	ND	2700	
108-38-3/106-42-3	M/P Xylene	ND	5400	
95-47-6	Ortho Xylene	ND	2700	
100-42-5	Styrene	ND	2700	
75-25-2	Bromoform	ND	2700	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2700	
98-82-8	Isopropylbenzene	ND	2700	
108-86-1	Bromobenzene	ND	2700	
96-18-4	1,2,3-Trichloropropane	ND	2700	
103-65-1	N-Propylbenzene	ND	2700	
95-49-8	2-Chlorotoluene	ND	2700	
106-43-4	4-Chlorotoluene	ND	2700	
98-06-6	Tert-Butylbenzene	ND	2700	
108-67-8	1,3,5-Trimethylbenzene	ND	2700	
95-63-6	1,2,4-Trimethylbenzene	ND	2700	
135-98-8	Sec-Butylbenzene	ND	2700	
541-73-1	1,3-Dichlorobenzene	ND	2700	
99-87-6	Para-Isopropyltoluene	ND	2700	
106-46-7	1,4-Dichlorobenzene	ND	2700	
95-50-1	1,2-Dichlorobenzene	ND	2700	
104-51-8	N-Butylbenzene	ND	2700	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	2700	
120-82-1	1,2,4-Trichlorobenzene	ND	2700	
87-68-3	Hexachlorobutadiene	ND	2700	
91-20-3	Naphthalene	ND	2700	
87-61-6	1,2,3-Trichlorobenzene	ND	2700	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	104	85 - 131
Toluene-D8	99	84 - 118
1,4-Bromofluorobenzene	98	56 - 125

Comments: Tetrachloroethylene is reported from 2000x dilution prepared and analyzed on 12/18/19.

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0011
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 5.794 grams
Wet Weight Prepared: 7.066 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84804
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 82%
Extract Dilution: 200
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	390	
75-01-4	Vinyl Chloride	ND	390	
74-83-9	Bromomethane	ND	390	
75-00-3	Chloroethane	ND	390	
75-69-4	Trichlorofluoromethane	ND	390	
60-29-7	Ethyl Ether	ND	390	
67-64-1	2-Propanone (acetone)	ND	2000	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	390	
75-35-4	1,1-Dichloroethylene	ND	390	
75-15-0	Carbon Disulfide	ND	390	
75-71-8	Dichlorodifluoromethane	ND	390	
75-09-2	Methylene Chloride	ND	390	
107-13-1	Acrylonitrile	ND	390	
1634-04-4	Methyl-t-Butyl Ether	ND	390	
156-60-5	Trans-1,2-Dichloroethylene	ND	390	
75-34-3	1,1-dichloroethane	ND	390	
108-05-4	Vinyl Acetate	ND	390	
78-93-3	2-Butanone (MEK)	ND	390	
594-20-7	2,2-Dichloropropane	ND	390	
156-59-2	cis-1,2-Dichloroethylene	ND	390	
67-66-3	Chloroform	ND	390	
74-97-5	Bromochloromethane	ND	390	
109-99-9	Tetrahydrofuran	ND	390	
71-55-6	1,1,1-Trichloroethane	ND	390	
107-06-2	1,2-Dichloroethane	ND	390	
56-23-5	Carbon tetrachloride	ND	390	
71-43-2	Benzene	ND	390	
10061-01-5	c-1,3-dichloropropene	ND	390	
108-88-3	Toluene	ND	390	
10061-02-6	t-1,3-Dichloropropene	ND	390	
79-00-5	1,1,2-Trichloroethane	ND	390	
124-48-1	Dibromochloromethane	ND	390	
108-90-7	Chlorobenzene	ND	390	
563-58-6	1,1-Dichloropropene	ND	390	
79-01-6	Trichloroethylene	ND	390	
78-87-5	1,2-Dichloropropane	ND	390	
75-27-4	Bromodichloromethane	ND	390	
74-95-3	Dibromomethane	ND	390	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	390	
142-28-9	1,3-Dichloropropane	ND	390	
127-18-4	Tetrachloroethylene	8900	390	
106-93-4	1,2-Dibromoethane	ND	390	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0011
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 5.794 grams
Wet Weight Prepared: 7.066 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84804
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 82%
Extract Dilution: 200
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	390	
630-20-6	1,1,1,2-Tetrachloroethane	ND	390	
100-41-4	Ethylbenzene	ND	390	
108-38-3/106-42-3	M/P Xylene	ND	780	
95-47-6	Ortho Xylene	ND	390	
100-42-5	Styrene	ND	390	
75-25-2	Bromoform	ND	390	
79-34-5	1,1,2,2-Tetrachloroethane	ND	390	
98-82-8	Isopropylbenzene	ND	390	
108-86-1	Bromobenzene	ND	390	
96-18-4	1,2,3-Trichloropropane	ND	390	
103-65-1	N-Propylbenzene	ND	390	
95-49-8	2-Chlorotoluene	ND	390	
106-43-4	4-Chlorotoluene	ND	390	
98-06-6	Tert-Butylbenzene	ND	390	
108-67-8	1,3,5-Trimethylbenzene	ND	390	
95-63-6	1,2,4-Trimethylbenzene	ND	390	
135-98-8	Sec-Butylbenzene	ND	390	
541-73-1	1,3-Dichlorobenzene	ND	390	
99-87-6	Para-Isopropyltoluene	ND	390	
106-46-7	1,4-Dichlorobenzene	ND	390	
95-50-1	1,2-Dichlorobenzene	ND	390	
104-51-8	N-Butylbenzene	ND	390	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	390	
120-82-1	1,2,4-Trichlorobenzene	ND	390	
87-68-3	Hexachlorobutadiene	ND	390	
91-20-3	Naphthalene	ND	390	
87-61-6	1,2,3-Trichlorobenzene	ND	390	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	85 - 131
Toluene-D8	98	84 - 118
1,4-Bromofluorobenzene	99	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0012
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 6.818 grams
Wet Weight Prepared: 8.214 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84805
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 200
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	330	
75-01-4	Vinyl Chloride	ND	330	
74-83-9	Bromomethane	ND	330	
75-00-3	Chloroethane	ND	330	
75-69-4	Trichlorofluoromethane	ND	330	
60-29-7	Ethyl Ether	ND	330	
67-64-1	2-Propanone (acetone)	ND	1700	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	330	
75-35-4	1,1-Dichloroethylene	ND	330	
75-15-0	Carbon Disulfide	ND	330	
75-71-8	Dichlorodifluoromethane	ND	330	
75-09-2	Methylene Chloride	ND	330	
107-13-1	Acrylonitrile	ND	330	
1634-04-4	Methyl-t-Butyl Ether	ND	330	
156-60-5	Trans-1,2-Dichloroethylene	ND	330	
75-34-3	1,1-dichloroethane	ND	330	
108-05-4	Vinyl Acetate	ND	330	
78-93-3	2-Butanone (MEK)	ND	330	
594-20-7	2,2-Dichloropropane	ND	330	
156-59-2	cis-1,2-Dichloroethylene	ND	330	
67-66-3	Chloroform	ND	330	
74-97-5	Bromochloromethane	ND	330	
109-99-9	Tetrahydrofuran	ND	330	
71-55-6	1,1,1-Trichloroethane	ND	330	
107-06-2	1,2-Dichloroethane	ND	330	
56-23-5	Carbon tetrachloride	ND	330	
71-43-2	Benzene	ND	330	
10061-01-5	c-1,3-dichloropropene	ND	330	
108-88-3	Toluene	ND	330	
10061-02-6	t-1,3-Dichloropropene	ND	330	
79-00-5	1,1,2-Trichloroethane	ND	330	
124-48-1	Dibromochloromethane	ND	330	
108-90-7	Chlorobenzene	ND	330	
563-58-6	1,1-Dichloropropene	ND	330	
79-01-6	Trichloroethylene	ND	330	
78-87-5	1,2-Dichloropropane	ND	330	
75-27-4	Bromodichloromethane	ND	330	
74-95-3	Dibromomethane	ND	330	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	330	
142-28-9	1,3-Dichloropropane	ND	330	
127-18-4	Tetrachloroethylene	12000	330	
106-93-4	1,2-Dibromoethane	ND	330	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0012
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 6.818 grams
Wet Weight Prepared: 8.214 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84805
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 200
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	330	
630-20-6	1,1,1,2-Tetrachloroethane	ND	330	
100-41-4	Ethylbenzene	ND	330	
108-38-3/106-42-3	M/P Xylene	ND	660	
95-47-6	Ortho Xylene	ND	330	
100-42-5	Styrene	ND	330	
75-25-2	Bromoform	ND	330	
79-34-5	1,1,2,2-Tetrachloroethane	ND	330	
98-82-8	Isopropylbenzene	ND	330	
108-86-1	Bromobenzene	ND	330	
96-18-4	1,2,3-Trichloropropane	ND	330	
103-65-1	N-Propylbenzene	ND	330	
95-49-8	2-Chlorotoluene	ND	330	
106-43-4	4-Chlorotoluene	ND	330	
98-06-6	Tert-Butylbenzene	ND	330	
108-67-8	1,3,5-Trimethylbenzene	ND	330	
95-63-6	1,2,4-Trimethylbenzene	ND	330	
135-98-8	Sec-Butylbenzene	ND	330	
541-73-1	1,3-Dichlorobenzene	ND	330	
99-87-6	Para-Isopropyltoluene	ND	330	
106-46-7	1,4-Dichlorobenzene	ND	330	
95-50-1	1,2-Dichlorobenzene	ND	330	
104-51-8	N-Butylbenzene	ND	330	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	330	
120-82-1	1,2,4-Trichlorobenzene	ND	330	
87-68-3	Hexachlorobutadiene	ND	330	
91-20-3	Naphthalene	ND	330	
87-61-6	1,2,3-Trichlorobenzene	ND	330	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	98	84 - 118
1,4-Bromofluorobenzene	99	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0013
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 7.172 grams
Wet Weight Prepared: 8.339 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84806
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 86%
Extract Dilution: 250
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	390	
75-01-4	Vinyl Chloride	ND	390	
74-83-9	Bromomethane	ND	390	
75-00-3	Chloroethane	ND	390	
75-69-4	Trichlorofluoromethane	ND	390	
60-29-7	Ethyl Ether	ND	390	
67-64-1	2-Propanone (acetone)	ND	2000	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	390	
75-35-4	1,1-Dichloroethylene	ND	390	
75-15-0	Carbon Disulfide	ND	390	
75-71-8	Dichlorodifluoromethane	ND	390	
75-09-2	Methylene Chloride	ND	390	
107-13-1	Acrylonitrile	ND	390	
1634-04-4	Methyl-t-Butyl Ether	ND	390	
156-60-5	Trans-1,2-Dichloroethylene	ND	390	
75-34-3	1,1-dichloroethane	ND	390	
108-05-4	Vinyl Acetate	ND	390	
78-93-3	2-Butanone (MEK)	ND	390	
594-20-7	2,2-Dichloropropane	ND	390	
156-59-2	cis-1,2-Dichloroethylene	580	390	
67-66-3	Chloroform	ND	390	
74-97-5	Bromochloromethane	ND	390	
109-99-9	Tetrahydrofuran	ND	390	
71-55-6	1,1,1-Trichloroethane	ND	390	
107-06-2	1,2-Dichloroethane	ND	390	
56-23-5	Carbon tetrachloride	ND	390	
71-43-2	Benzene	ND	390	
10061-01-5	c-1,3-dichloropropene	ND	390	
108-88-3	Toluene	ND	390	
10061-02-6	t-1,3-Dichloropropene	ND	390	
79-00-5	1,1,2-Trichloroethane	ND	390	
124-48-1	Dibromochloromethane	ND	390	
108-90-7	Chlorobenzene	ND	390	
563-58-6	1,1-Dichloropropene	ND	390	
79-01-6	Trichloroethylene	ND	390	
78-87-5	1,2-Dichloropropane	ND	390	
75-27-4	Bromodichloromethane	ND	390	
74-95-3	Dibromomethane	ND	390	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	390	
142-28-9	1,3-Dichloropropane	ND	390	
127-18-4	Tetrachloroethylene	20000	390	
106-93-4	1,2-Dibromoethane	ND	390	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0013
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 7.172 grams
Wet Weight Prepared: 8.339 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84806
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 86%
Extract Dilution: 250
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	390	
630-20-6	1,1,1,2-Tetrachloroethane	ND	390	
100-41-4	Ethylbenzene	ND	390	
108-38-3/106-42-3	M/P Xylene	ND	780	
95-47-6	Ortho Xylene	ND	390	
100-42-5	Styrene	ND	390	
75-25-2	Bromoform	ND	390	
79-34-5	1,1,2,2-Tetrachloroethane	ND	390	
98-82-8	Isopropylbenzene	ND	390	
108-86-1	Bromobenzene	ND	390	
96-18-4	1,2,3-Trichloropropane	ND	390	
103-65-1	N-Propylbenzene	ND	390	
95-49-8	2-Chlorotoluene	ND	390	
106-43-4	4-Chlorotoluene	ND	390	
98-06-6	Tert-Butylbenzene	ND	390	
108-67-8	1,3,5-Trimethylbenzene	ND	390	
95-63-6	1,2,4-Trimethylbenzene	ND	390	
135-98-8	Sec-Butylbenzene	ND	390	
541-73-1	1,3-Dichlorobenzene	ND	390	
99-87-6	Para-Isopropyltoluene	ND	390	
106-46-7	1,4-Dichlorobenzene	ND	390	
95-50-1	1,2-Dichlorobenzene	ND	390	
104-51-8	N-Butylbenzene	ND	390	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	390	
120-82-1	1,2,4-Trichlorobenzene	ND	390	
87-68-3	Hexachlorobutadiene	ND	390	
91-20-3	Naphthalene	ND	390	
87-61-6	1,2,3-Trichlorobenzene	ND	390	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	100	84 - 118
1,4-Bromofluorobenzene	99	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0014
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 11.259 grams
Wet Weight Prepared: 12.941 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84807
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	52	
75-01-4	Vinyl Chloride	ND	52	
74-83-9	Bromomethane	ND	52	
75-00-3	Chloroethane	ND	52	
75-69-4	Trichlorofluoromethane	ND	52	
60-29-7	Ethyl Ether	ND	52	
67-64-1	2-Propanone (acetone)	ND	260	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	52	
75-35-4	1,1-Dichloroethylene	ND	52	
75-15-0	Carbon Disulfide	ND	52	
75-71-8	Dichlorodifluoromethane	ND	52	
75-09-2	Methylene Chloride	ND	52	
107-13-1	Acrylonitrile	ND	52	
1634-04-4	Methyl-t-Butyl Ether	ND	52	
156-60-5	Trans-1,2-Dichloroethylene	ND	52	
75-34-3	1,1-dichloroethane	ND	52	
108-05-4	Vinyl Acetate	ND	52	
78-93-3	2-Butanone (MEK)	ND	52	
594-20-7	2,2-Dichloropropane	ND	52	
156-59-2	cis-1,2-Dichloroethylene	1200	52	
67-66-3	Chloroform	ND	52	
74-97-5	Bromochloromethane	ND	52	
109-99-9	Tetrahydrofuran	ND	52	
71-55-6	1,1,1-Trichloroethane	ND	52	
107-06-2	1,2-Dichloroethane	ND	52	
56-23-5	Carbon tetrachloride	ND	52	
71-43-2	Benzene	ND	52	
10061-01-5	c-1,3-dichloropropene	ND	52	
108-88-3	Toluene	ND	52	
10061-02-6	t-1,3-Dichloropropene	ND	52	
79-00-5	1,1,2-Trichloroethane	ND	52	
124-48-1	Dibromochloromethane	ND	52	
108-90-7	Chlorobenzene	ND	52	
563-58-6	1,1-Dichloropropene	ND	52	
79-01-6	Trichloroethylene	270	52	
78-87-5	1,2-Dichloropropane	ND	52	
75-27-4	Bromodichloromethane	ND	52	
74-95-3	Dibromomethane	ND	52	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	52	
142-28-9	1,3-Dichloropropane	ND	52	
127-18-4	Tetrachloroethylene	140	52	
106-93-4	1,2-Dibromoethane	ND	52	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0014
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 11.259 grams
Wet Weight Prepared: 12.941 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84807
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	52	
630-20-6	1,1,1,2-Tetrachloroethane	ND	52	
100-41-4	Ethylbenzene	ND	52	
108-38-3/106-42-3	M/P Xylene	ND	100	
95-47-6	Ortho Xylene	ND	52	
100-42-5	Styrene	ND	52	
75-25-2	Bromoform	ND	52	
79-34-5	1,1,2,2-Tetrachloroethane	ND	52	
98-82-8	Isopropylbenzene	ND	52	
108-86-1	Bromobenzene	ND	52	
96-18-4	1,2,3-Trichloropropane	ND	52	
103-65-1	N-Propylbenzene	ND	52	
95-49-8	2-Chlorotoluene	ND	52	
106-43-4	4-Chlorotoluene	ND	52	
98-06-6	Tert-Butylbenzene	ND	52	
108-67-8	1,3,5-Trimethylbenzene	ND	52	
95-63-6	1,2,4-Trimethylbenzene	300	52	
135-98-8	Sec-Butylbenzene	81	52	
541-73-1	1,3-Dichlorobenzene	ND	52	
99-87-6	Para-Isopropyltoluene	ND	52	
106-46-7	1,4-Dichlorobenzene	ND	52	
95-50-1	1,2-Dichlorobenzene	ND	52	
104-51-8	N-Butylbenzene	180	52	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	52	
120-82-1	1,2,4-Trichlorobenzene	ND	52	
87-68-3	Hexachlorobutadiene	ND	52	
91-20-3	Naphthalene	ND	52	
87-61-6	1,2,3-Trichlorobenzene	ND	52	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	85 - 131
Toluene-D8	100	84 - 118
1,4-Bromofluorobenzene	104	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0014
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 11.259 grams
Wet Weight Prepared: 12.941 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84807
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration ug/Kg</u>	<u>RL ug/Kg</u>	<u>Qualifier</u>
Comments: Tentatively Identified Non-Target Analytes:				
Heptane, 3-ethyl-2-methyl-	1100 ppb, J			
Cyclohexane, propyl-	2300 ppb, J			
Nonane, 4-methyl-	1100 ppb, J			
Nonane, 3-methyl-	1000 ppb, J			
Cyclohexane, 1,1,2,3-tetramethyl-	800 ppb, J			
Decane, 4-methyl-	2000 ppb, J			
Napthalene, decahydro-, trans-	740 ppb, J			
Cyclohexane, pentyl-	840 ppb, J			

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/16/2019	Amount Prepared:	5 mL
Date of Analysis:	12/16/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/16/2019	Amount Prepared:	5 mL
Date of Analysis:	12/16/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	85 - 131
Toluene-D8	101	84 - 118
1,4-Bromofluorobenzene	100	56 - 125

Comments: Method Blank for AB84799, AB84807, AB84808, AB84809, AB84810, AB84811, AB84812, AB84813, AB84804, AB84805, AB84806, and AB84800.

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0015
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 8.615 grams
Wet Weight Prepared: 9.467 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84808
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 91%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	63	
75-01-4	Vinyl Chloride	ND	63	
74-83-9	Bromomethane	ND	63	
75-00-3	Chloroethane	ND	63	
75-69-4	Trichlorofluoromethane	ND	63	
60-29-7	Ethyl Ether	ND	63	
67-64-1	2-Propanone (acetone)	ND	320	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	63	
75-35-4	1,1-Dichloroethylene	ND	63	
75-15-0	Carbon Disulfide	ND	63	
75-71-8	Dichlorodifluoromethane	ND	63	
75-09-2	Methylene Chloride	ND	63	
107-13-1	Acrylonitrile	ND	63	
1634-04-4	Methyl-t-Butyl Ether	ND	63	
156-60-5	Trans-1,2-Dichloroethylene	ND	63	
75-34-3	1,1-dichloroethane	ND	63	
108-05-4	Vinyl Acetate	ND	63	
78-93-3	2-Butanone (MEK)	ND	63	
594-20-7	2,2-Dichloropropane	ND	63	
156-59-2	cis-1,2-Dichloroethylene	ND	63	
67-66-3	Chloroform	ND	63	
74-97-5	Bromochloromethane	ND	63	
109-99-9	Tetrahydrofuran	ND	63	
71-55-6	1,1,1-Trichloroethane	ND	63	
107-06-2	1,2-Dichloroethane	ND	63	
56-23-5	Carbon tetrachloride	ND	63	
71-43-2	Benzene	ND	63	
10061-01-5	c-1,3-dichloropropene	ND	63	
108-88-3	Toluene	ND	63	
10061-02-6	t-1,3-Dichloropropene	ND	63	
79-00-5	1,1,2-Trichloroethane	ND	63	
124-48-1	Dibromochloromethane	ND	63	
108-90-7	Chlorobenzene	ND	63	
563-58-6	1,1-Dichloropropene	ND	63	
79-01-6	Trichloroethylene	ND	63	
78-87-5	1,2-Dichloropropane	ND	63	
75-27-4	Bromodichloromethane	ND	63	
74-95-3	Dibromomethane	ND	63	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	63	
142-28-9	1,3-Dichloropropane	ND	63	
127-18-4	Tetrachloroethylene	ND	63	
106-93-4	1,2-Dibromoethane	ND	63	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0015
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 8.615 grams
Wet Weight Prepared: 9.467 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84808
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 91%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	63	
630-20-6	1,1,1,2-Tetrachloroethane	ND	63	
100-41-4	Ethylbenzene	ND	63	
108-38-3/106-42-3	M/P Xylene	ND	130	
95-47-6	Ortho Xylene	ND	63	
100-42-5	Styrene	ND	63	
75-25-2	Bromoform	ND	63	
79-34-5	1,1,2,2-Tetrachloroethane	ND	63	
98-82-8	Isopropylbenzene	ND	63	
108-86-1	Bromobenzene	ND	63	
96-18-4	1,2,3-Trichloropropane	ND	63	
103-65-1	N-Propylbenzene	ND	63	
95-49-8	2-Chlorotoluene	ND	63	
106-43-4	4-Chlorotoluene	ND	63	
98-06-6	Tert-Butylbenzene	ND	63	
108-67-8	1,3,5-Trimethylbenzene	ND	63	
95-63-6	1,2,4-Trimethylbenzene	ND	63	
135-98-8	Sec-Butylbenzene	ND	63	
541-73-1	1,3-Dichlorobenzene	ND	63	
99-87-6	Para-Isopropyltoluene	ND	63	
106-46-7	1,4-Dichlorobenzene	ND	63	
95-50-1	1,2-Dichlorobenzene	ND	63	
104-51-8	N-Butylbenzene	ND	63	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	63	
120-82-1	1,2,4-Trichlorobenzene	ND	63	
87-68-3	Hexachlorobutadiene	ND	63	
91-20-3	Naphthalene	ND	63	
87-61-6	1,2,3-Trichlorobenzene	ND	63	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	100	84 - 118
1,4-Bromofluorobenzene	99	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0016
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 9.712 grams
Wet Weight Prepared: 11.163 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84809
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	59	
75-01-4	Vinyl Chloride	ND	59	
74-83-9	Bromomethane	ND	59	
75-00-3	Chloroethane	ND	59	
75-69-4	Trichlorofluoromethane	ND	59	
60-29-7	Ethyl Ether	ND	59	
67-64-1	2-Propanone (acetone)	ND	300	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	59	
75-35-4	1,1-Dichloroethylene	ND	59	
75-15-0	Carbon Disulfide	ND	59	
75-71-8	Dichlorodifluoromethane	ND	59	
75-09-2	Methylene Chloride	ND	59	
107-13-1	Acrylonitrile	ND	59	
1634-04-4	Methyl-t-Butyl Ether	ND	59	
156-60-5	Trans-1,2-Dichloroethylene	ND	59	
75-34-3	1,1-dichloroethane	ND	59	
108-05-4	Vinyl Acetate	ND	59	
78-93-3	2-Butanone (MEK)	ND	59	
594-20-7	2,2-Dichloropropane	ND	59	
156-59-2	cis-1,2-Dichloroethylene	ND	59	
67-66-3	Chloroform	ND	59	
74-97-5	Bromochloromethane	ND	59	
109-99-9	Tetrahydrofuran	ND	59	
71-55-6	1,1,1-Trichloroethane	ND	59	
107-06-2	1,2-Dichloroethane	ND	59	
56-23-5	Carbon tetrachloride	ND	59	
71-43-2	Benzene	ND	59	
10061-01-5	c-1,3-dichloropropene	ND	59	
108-88-3	Toluene	ND	59	
10061-02-6	t-1,3-Dichloropropene	ND	59	
79-00-5	1,1,2-Trichloroethane	ND	59	
124-48-1	Dibromochloromethane	ND	59	
108-90-7	Chlorobenzene	ND	59	
563-58-6	1,1-Dichloropropene	ND	59	
79-01-6	Trichloroethylene	ND	59	
78-87-5	1,2-Dichloropropane	ND	59	
75-27-4	Bromodichloromethane	ND	59	
74-95-3	Dibromomethane	ND	59	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	59	
142-28-9	1,3-Dichloropropane	ND	59	
127-18-4	Tetrachloroethylene	ND	59	
106-93-4	1,2-Dibromoethane	ND	59	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0016
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 9.712 grams
Wet Weight Prepared: 11.163 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84809
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	59	
630-20-6	1,1,1,2-Tetrachloroethane	ND	59	
100-41-4	Ethylbenzene	ND	59	
108-38-3/106-42-3	M/P Xylene	ND	120	
95-47-6	Ortho Xylene	ND	59	
100-42-5	Styrene	ND	59	
75-25-2	Bromoform	ND	59	
79-34-5	1,1,2,2-Tetrachloroethane	ND	59	
98-82-8	Isopropylbenzene	ND	59	
108-86-1	Bromobenzene	ND	59	
96-18-4	1,2,3-Trichloropropane	ND	59	
103-65-1	N-Propylbenzene	ND	59	
95-49-8	2-Chlorotoluene	ND	59	
106-43-4	4-Chlorotoluene	ND	59	
98-06-6	Tert-Butylbenzene	ND	59	
108-67-8	1,3,5-Trimethylbenzene	ND	59	
95-63-6	1,2,4-Trimethylbenzene	ND	59	
135-98-8	Sec-Butylbenzene	ND	59	
541-73-1	1,3-Dichlorobenzene	ND	59	
99-87-6	Para-Isopropyltoluene	ND	59	
106-46-7	1,4-Dichlorobenzene	ND	59	
95-50-1	1,2-Dichlorobenzene	ND	59	
104-51-8	N-Butylbenzene	ND	59	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	59	
120-82-1	1,2,4-Trichlorobenzene	ND	59	
87-68-3	Hexachlorobutadiene	ND	59	
91-20-3	Naphthalene	ND	59	
87-61-6	1,2,3-Trichlorobenzene	ND	59	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	98	85 - 131
Toluene-D8	98	84 - 118
1,4-Bromofluorobenzene	99	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0017
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 7.497 grams
Wet Weight Prepared: 9.255 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84810
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 81%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	78	
75-01-4	Vinyl Chloride	ND	78	
74-83-9	Bromomethane	ND	78	
75-00-3	Chloroethane	ND	78	
75-69-4	Trichlorofluoromethane	ND	78	
60-29-7	Ethyl Ether	ND	78	
67-64-1	2-Propanone (acetone)	ND	390	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	78	
75-35-4	1,1-Dichloroethylene	ND	78	
75-15-0	Carbon Disulfide	ND	78	
75-71-8	Dichlorodifluoromethane	ND	78	
75-09-2	Methylene Chloride	ND	78	
107-13-1	Acrylonitrile	ND	78	
1634-04-4	Methyl-t-Butyl Ether	ND	78	
156-60-5	Trans-1,2-Dichloroethylene	ND	78	
75-34-3	1,1-dichloroethane	ND	78	
108-05-4	Vinyl Acetate	ND	78	
78-93-3	2-Butanone (MEK)	ND	78	
594-20-7	2,2-Dichloropropane	ND	78	
156-59-2	cis-1,2-Dichloroethylene	ND	78	
67-66-3	Chloroform	ND	78	
74-97-5	Bromochloromethane	ND	78	
109-99-9	Tetrahydrofuran	ND	78	
71-55-6	1,1,1-Trichloroethane	ND	78	
107-06-2	1,2-Dichloroethane	ND	78	
56-23-5	Carbon tetrachloride	ND	78	
71-43-2	Benzene	ND	78	
10061-01-5	c-1,3-dichloropropene	ND	78	
108-88-3	Toluene	ND	78	
10061-02-6	t-1,3-Dichloropropene	ND	78	
79-00-5	1,1,2-Trichloroethane	ND	78	
124-48-1	Dibromochloromethane	ND	78	
108-90-7	Chlorobenzene	ND	78	
563-58-6	1,1-Dichloropropene	ND	78	
79-01-6	Trichloroethylene	ND	78	
78-87-5	1,2-Dichloropropane	ND	78	
75-27-4	Bromodichloromethane	ND	78	
74-95-3	Dibromomethane	ND	78	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	78	
142-28-9	1,3-Dichloropropane	ND	78	
127-18-4	Tetrachloroethylene	310	78	
106-93-4	1,2-Dibromoethane	ND	78	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0017
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 7.497 grams
Wet Weight Prepared: 9.255 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84810
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 81%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	78	
630-20-6	1,1,1,2-Tetrachloroethane	ND	78	
100-41-4	Ethylbenzene	ND	78	
108-38-3/106-42-3	M/P Xylene	ND	160	
95-47-6	Ortho Xylene	ND	78	
100-42-5	Styrene	ND	78	
75-25-2	Bromoform	ND	78	
79-34-5	1,1,2,2-Tetrachloroethane	ND	78	
98-82-8	Isopropylbenzene	ND	78	
108-86-1	Bromobenzene	ND	78	
96-18-4	1,2,3-Trichloropropane	ND	78	
103-65-1	N-Propylbenzene	ND	78	
95-49-8	2-Chlorotoluene	ND	78	
106-43-4	4-Chlorotoluene	ND	78	
98-06-6	Tert-Butylbenzene	ND	78	
108-67-8	1,3,5-Trimethylbenzene	ND	78	
95-63-6	1,2,4-Trimethylbenzene	ND	78	
135-98-8	Sec-Butylbenzene	ND	78	
541-73-1	1,3-Dichlorobenzene	ND	78	
99-87-6	Para-Isopropyltoluene	ND	78	
106-46-7	1,4-Dichlorobenzene	ND	78	
95-50-1	1,2-Dichlorobenzene	ND	78	
104-51-8	N-Butylbenzene	ND	78	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	78	
120-82-1	1,2,4-Trichlorobenzene	ND	78	
87-68-3	Hexachlorobutadiene	ND	78	
91-20-3	Naphthalene	ND	78	
87-61-6	1,2,3-Trichlorobenzene	ND	78	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	98	85 - 131
Toluene-D8	99	84 - 118
1,4-Bromofluorobenzene	98	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0018
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 6.788 grams
Wet Weight Prepared: 9.050 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84811
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 75%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	90	
75-01-4	Vinyl Chloride	ND	90	
74-83-9	Bromomethane	ND	90	
75-00-3	Chloroethane	ND	90	
75-69-4	Trichlorofluoromethane	ND	90	
60-29-7	Ethyl Ether	ND	90	
67-64-1	2-Propanone (acetone)	ND	450	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	90	
75-35-4	1,1-Dichloroethylene	ND	90	
75-15-0	Carbon Disulfide	ND	90	
75-71-8	Dichlorodifluoromethane	ND	90	
75-09-2	Methylene Chloride	ND	90	
107-13-1	Acrylonitrile	ND	90	
1634-04-4	Methyl-t-Butyl Ether	ND	90	
156-60-5	Trans-1,2-Dichloroethylene	ND	90	
75-34-3	1,1-dichloroethane	ND	90	
108-05-4	Vinyl Acetate	ND	90	
78-93-3	2-Butanone (MEK)	ND	90	
594-20-7	2,2-Dichloropropane	ND	90	
156-59-2	cis-1,2-Dichloroethylene	ND	90	
67-66-3	Chloroform	ND	90	
74-97-5	Bromochloromethane	ND	90	
109-99-9	Tetrahydrofuran	ND	90	
71-55-6	1,1,1-Trichloroethane	ND	90	
107-06-2	1,2-Dichloroethane	ND	90	
56-23-5	Carbon tetrachloride	ND	90	
71-43-2	Benzene	ND	90	
10061-01-5	c-1,3-dichloropropene	ND	90	
108-88-3	Toluene	ND	90	
10061-02-6	t-1,3-Dichloropropene	ND	90	
79-00-5	1,1,2-Trichloroethane	ND	90	
124-48-1	Dibromochloromethane	ND	90	
108-90-7	Chlorobenzene	ND	90	
563-58-6	1,1-Dichloropropene	ND	90	
79-01-6	Trichloroethylene	ND	90	
78-87-5	1,2-Dichloropropane	ND	90	
75-27-4	Bromodichloromethane	ND	90	
74-95-3	Dibromomethane	ND	90	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	90	
142-28-9	1,3-Dichloropropane	ND	90	
127-18-4	Tetrachloroethylene	190	90	
106-93-4	1,2-Dibromoethane	ND	90	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0018
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 6.788 grams
Wet Weight Prepared: 9.050 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84811
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 75%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	90	
630-20-6	1,1,1,2-Tetrachloroethane	ND	90	
100-41-4	Ethylbenzene	ND	90	
108-38-3/106-42-3	M/P Xylene	ND	180	
95-47-6	Ortho Xylene	ND	90	
100-42-5	Styrene	ND	90	
75-25-2	Bromoform	ND	90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	90	
98-82-8	Isopropylbenzene	ND	90	
108-86-1	Bromobenzene	ND	90	
96-18-4	1,2,3-Trichloropropane	ND	90	
103-65-1	N-Propylbenzene	ND	90	
95-49-8	2-Chlorotoluene	ND	90	
106-43-4	4-Chlorotoluene	ND	90	
98-06-6	Tert-Butylbenzene	ND	90	
108-67-8	1,3,5-Trimethylbenzene	ND	90	
95-63-6	1,2,4-Trimethylbenzene	ND	90	
135-98-8	Sec-Butylbenzene	ND	90	
541-73-1	1,3-Dichlorobenzene	ND	90	
99-87-6	Para-Isopropyltoluene	ND	90	
106-46-7	1,4-Dichlorobenzene	ND	90	
95-50-1	1,2-Dichlorobenzene	ND	90	
104-51-8	N-Butylbenzene	ND	90	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	90	
120-82-1	1,2,4-Trichlorobenzene	ND	90	
87-68-3	Hexachlorobutadiene	ND	90	
91-20-3	Naphthalene	ND	90	
87-61-6	1,2,3-Trichlorobenzene	ND	90	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	98	85 - 131
Toluene-D8	99	84 - 118
1,4-Bromofluorobenzene	98	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0019
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 8.907 grams
Wet Weight Prepared: 10.731 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84812
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	66	
75-01-4	Vinyl Chloride	ND	66	
74-83-9	Bromomethane	ND	66	
75-00-3	Chloroethane	ND	66	
75-69-4	Trichlorofluoromethane	ND	66	
60-29-7	Ethyl Ether	ND	66	
67-64-1	2-Propanone (acetone)	ND	330	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	66	
75-35-4	1,1-Dichloroethylene	ND	66	
75-15-0	Carbon Disulfide	ND	66	
75-71-8	Dichlorodifluoromethane	ND	66	
75-09-2	Methylene Chloride	ND	66	
107-13-1	Acrylonitrile	ND	66	
1634-04-4	Methyl-t-Butyl Ether	ND	66	
156-60-5	Trans-1,2-Dichloroethylene	ND	66	
75-34-3	1,1-dichloroethane	ND	66	
108-05-4	Vinyl Acetate	ND	66	
78-93-3	2-Butanone (MEK)	ND	66	
594-20-7	2,2-Dichloropropane	ND	66	
156-59-2	cis-1,2-Dichloroethylene	ND	66	
67-66-3	Chloroform	ND	66	
74-97-5	Bromochloromethane	ND	66	
109-99-9	Tetrahydrofuran	ND	66	
71-55-6	1,1,1-Trichloroethane	ND	66	
107-06-2	1,2-Dichloroethane	ND	66	
56-23-5	Carbon tetrachloride	ND	66	
71-43-2	Benzene	ND	66	
10061-01-5	c-1,3-dichloropropene	ND	66	
108-88-3	Toluene	ND	66	
10061-02-6	t-1,3-Dichloropropene	ND	66	
79-00-5	1,1,2-Trichloroethane	ND	66	
124-48-1	Dibromochloromethane	ND	66	
108-90-7	Chlorobenzene	ND	66	
563-58-6	1,1-Dichloropropene	ND	66	
79-01-6	Trichloroethylene	ND	66	
78-87-5	1,2-Dichloropropane	ND	66	
75-27-4	Bromodichloromethane	ND	66	
74-95-3	Dibromomethane	ND	66	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	66	
142-28-9	1,3-Dichloropropane	ND	66	
127-18-4	Tetrachloroethylene	ND	66	
106-93-4	1,2-Dibromoethane	ND	66	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0019
Date of Collection: 12/09/2019
Date of Preparation: 12/16/2019
Date of Analysis: 12/16/2019
Dry Weight Prepared: 8.907 grams
Wet Weight Prepared: 10.731 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84812
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	66	
630-20-6	1,1,1,2-Tetrachloroethane	ND	66	
100-41-4	Ethylbenzene	ND	66	
108-38-3/106-42-3	M/P Xylene	ND	130	
95-47-6	Ortho Xylene	ND	66	
100-42-5	Styrene	ND	66	
75-25-2	Bromoform	ND	66	
79-34-5	1,1,2,2-Tetrachloroethane	ND	66	
98-82-8	Isopropylbenzene	ND	66	
108-86-1	Bromobenzene	ND	66	
96-18-4	1,2,3-Trichloropropane	ND	66	
103-65-1	N-Propylbenzene	ND	66	
95-49-8	2-Chlorotoluene	ND	66	
106-43-4	4-Chlorotoluene	ND	66	
98-06-6	Tert-Butylbenzene	ND	66	
108-67-8	1,3,5-Trimethylbenzene	ND	66	
95-63-6	1,2,4-Trimethylbenzene	ND	66	
135-98-8	Sec-Butylbenzene	ND	66	
541-73-1	1,3-Dichlorobenzene	ND	66	
99-87-6	Para-Isopropyltoluene	ND	66	
106-46-7	1,4-Dichlorobenzene	ND	66	
95-50-1	1,2-Dichlorobenzene	ND	66	
104-51-8	N-Butylbenzene	ND	66	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	66	
120-82-1	1,2,4-Trichlorobenzene	ND	66	
87-68-3	Hexachlorobutadiene	ND	66	
91-20-3	Naphthalene	ND	66	
87-61-6	1,2,3-Trichlorobenzene	ND	66	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	98	85 - 131
Toluene-D8	98	84 - 118
1,4-Bromofluorobenzene	99	56 - 125

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/18/2019	Amount Prepared:	5 mL
Date of Analysis:	12/18/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/18/2019	Amount Prepared:	5 mL
Date of Analysis:	12/18/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	95	56 - 125

Comments: Method Blank for AB84812 DUP, AB84812 MS, AB84812 MSD, and AB84803 (2000x)

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0020
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 7.241 grams
Wet Weight Prepared: 7.957 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84813
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 91%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	74	
75-01-4	Vinyl Chloride	ND	74	
74-83-9	Bromomethane	ND	74	
75-00-3	Chloroethane	ND	74	
75-69-4	Trichlorofluoromethane	ND	74	
60-29-7	Ethyl Ether	ND	74	
67-64-1	2-Propanone (acetone)	ND	370	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	74	
75-35-4	1,1-Dichloroethylene	ND	74	
75-15-0	Carbon Disulfide	ND	74	
75-71-8	Dichlorodifluoromethane	ND	74	
75-09-2	Methylene Chloride	ND	74	
107-13-1	Acrylonitrile	ND	74	
1634-04-4	Methyl-t-Butyl Ether	ND	74	
156-60-5	Trans-1,2-Dichloroethylene	ND	74	
75-34-3	1,1-dichloroethane	ND	74	
108-05-4	Vinyl Acetate	ND	74	
78-93-3	2-Butanone (MEK)	ND	74	
594-20-7	2,2-Dichloropropane	ND	74	
156-59-2	cis-1,2-Dichloroethylene	ND	74	
67-66-3	Chloroform	ND	74	
74-97-5	Bromochloromethane	ND	74	
109-99-9	Tetrahydrofuran	ND	74	
71-55-6	1,1,1-Trichloroethane	ND	74	
107-06-2	1,2-Dichloroethane	ND	74	
56-23-5	Carbon tetrachloride	ND	74	
71-43-2	Benzene	ND	74	
10061-01-5	c-1,3-dichloropropene	ND	74	
108-88-3	Toluene	ND	74	
10061-02-6	t-1,3-Dichloropropene	ND	74	
79-00-5	1,1,2-Trichloroethane	ND	74	
124-48-1	Dibromochloromethane	ND	74	
108-90-7	Chlorobenzene	ND	74	
563-58-6	1,1-Dichloropropene	ND	74	
79-01-6	Trichloroethylene	ND	74	
78-87-5	1,2-Dichloropropane	ND	74	
75-27-4	Bromodichloromethane	ND	74	
74-95-3	Dibromomethane	ND	74	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	74	
142-28-9	1,3-Dichloropropane	ND	74	
127-18-4	Tetrachloroethylene	ND	74	
106-93-4	1,2-Dibromoethane	ND	74	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0020
Date of Collection: 12/09/2019
Date of Preparation: 12/17/2019
Date of Analysis: 12/17/2019
Dry Weight Prepared: 7.241 grams
Wet Weight Prepared: 7.957 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84813
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 91%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	74	
630-20-6	1,1,1,2-Tetrachloroethane	ND	74	
100-41-4	Ethylbenzene	ND	74	
108-38-3/106-42-3	M/P Xylene	ND	150	
95-47-6	Ortho Xylene	ND	74	
100-42-5	Styrene	ND	74	
75-25-2	Bromoform	ND	74	
79-34-5	1,1,2,2-Tetrachloroethane	ND	74	
98-82-8	Isopropylbenzene	ND	74	
108-86-1	Bromobenzene	ND	74	
96-18-4	1,2,3-Trichloropropane	ND	74	
103-65-1	N-Propylbenzene	ND	74	
95-49-8	2-Chlorotoluene	ND	74	
106-43-4	4-Chlorotoluene	ND	74	
98-06-6	Tert-Butylbenzene	ND	74	
108-67-8	1,3,5-Trimethylbenzene	ND	74	
95-63-6	1,2,4-Trimethylbenzene	ND	74	
135-98-8	Sec-Butylbenzene	ND	74	
541-73-1	1,3-Dichlorobenzene	ND	74	
99-87-6	Para-Isopropyltoluene	ND	74	
106-46-7	1,4-Dichlorobenzene	ND	74	
95-50-1	1,2-Dichlorobenzene	ND	74	
104-51-8	N-Butylbenzene	ND	74	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	74	
120-82-1	1,2,4-Trichlorobenzene	ND	74	
87-68-3	Hexachlorobutadiene	ND	74	
91-20-3	Naphthalene	ND	74	
87-61-6	1,2,3-Trichlorobenzene	ND	74	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	97	85 - 131
Toluene-D8	99	84 - 118
1,4-Bromofluorobenzene	98	56 - 125

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE (MS) RECOVERY

Sample ID: AB84812

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1328	ND	1300	98	86 - 115
1,1,1-Trichloroethane	1328	ND	1200	90	80 - 127
1,1,2,2-Tetrachloroethane	1328	ND	1200	90	68 - 118
1,1,2-Trichloro-1,2,2-Trifluoroetha	1328	ND	1200	90	79 - 134
1,1,2-Trichloroethane	1328	ND	1200	90	81 - 116
1,1-Dichloroethylene	1328	ND	1100	83	82 - 124
1,1-Dichloropropene	1328	ND	1300	98	79 - 126
1,1-dichloroethane	1328	ND	1200	90	82 - 119
1,2,3-Trichlorobenzene	1328	ND	1200	90	52 - 134
1,2,3-Trichloropropane	1328	ND	1200	90	64 - 115
1,2,4-Trichlorobenzene	1328	ND	1200	90	55 - 131
1,2,4-Trimethylbenzene	1328	ND	1300	98	75 - 137
1,2-Dibromo-3-Chloropropane	1328	ND	1000	75	49 - 120
1,2-Dibromoethane	1328	ND	1300	98	75 - 116
1,2-Dichlorobenzene	1328	ND	1300	98	77 - 116
1,2-Dichloroethane	1328	ND	1200	90	83 - 118
1,2-Dichloropropane	1328	ND	1200	90	82 - 115
1,3,5-Trimethylbenzene	1328	ND	1300	98	73 - 132
1,3-Dichlorobenzene	1328	ND	1300	98	80 - 116
1,3-Dichloropropane	1328	ND	1300	98	77 - 118
1,4-Dichlorobenzene	1328	ND	1300	98	81 - 110
2,2-Dichloropropane	1328	ND	1200	90	77 - 136
2-Butanone (MEK)	1328	ND	690	52	19 - 152
2-Chlorotoluene	1328	ND	1300	98	78 - 120
2-Hexanone	1328	ND	1000	75	22 - 139
2-Propanone (acetone)	1328	ND	490	37	25 - 161
4-Chlorotoluene	1328	ND	1300	98	78 - 120
4-Methyl-2-Pentanone(MIBK)	1328	ND	1200	90	51 - 133
Acrylonitrile	1328	ND	1000	75	57 - 131
Benzene	1328	ND	1200	90	84 - 119
Bromobenzene	1328	ND	1300	98	77 - 115
Bromochloromethane	1328	ND	1200	90	86 - 115
Bromodichloromethane	1328	ND	1200	90	87 - 109
Bromoform	1328	ND	930	70	65 - 120
Bromomethane	1328	ND	930	70	31 - 161
Carbon Disulfide	1328	ND	860	65	71 - 126
Carbon tetrachloride	1328	ND	1200	90	78 - 131
Chlorobenzene	1328	ND	1200	90	79 - 117
Chloroethane	1328	ND	850	64	53 - 145
Chloroform	1328	ND	1200	90	83 - 122
Chloromethane	1328	ND	1100	83	58 - 151
Dibromochloromethane	1328	ND	1000	75	77 - 120
Dibromomethane	1328	ND	1200	90	81 - 114
Dichlorodifluoromethane	1328	ND	1300	98	59 - 131
Ethyl Ether	1328	ND	840	63	81 - 123
Ethylbenzene	1328	ND	1300	98	83 - 122
Hexachlorobutadiene	1328	ND	1200	90	58 - 138

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE (MS) RECOVERY

Sample ID: AB84812

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
Isopropylbenzene	1328	ND	1300	98	76 - 133
M/P Xylene	2656	ND	2600	98	88 - 122
Methyl-t-Butyl Ether	1328	ND	1500	110	77 - 128
Methylene Chloride	1328	ND	1100	83	79 - 134
N-Butylbenzene	1328	ND	1300	98	71 - 136
N-Propylbenzene	1328	ND	1300	98	77 - 125
Naphthalene	1328	ND	1200	90	48 - 118
Ortho Xylene	1328	ND	1300	98	84 - 130
Para-Isopropyltoluene	1328	ND	1300	98	73 - 138
Sec-Butylbenzene	1328	ND	1300	98	75 - 132
Styrene	1328	ND	1300	98	88 - 126
Tert-Butylbenzene	1328	ND	1300	98	73 - 136
Tetrachloroethylene	1328	ND	1200	90	68 - 134
Tetrahydrofuran	1328	ND	900	68	49 - 134
Toluene	1328	ND	1200	90	82 - 125
Trans-1,2-Dichloroethylene	1328	ND	1200	90	84 - 117
Trichloroethylene	1328	ND	1300	98	80 - 118
Trichlorofluoromethane	1328	ND	1200	90	74 - 139
Vinyl Acetate	1328	ND	1100	83	66 - 130
Vinyl Chloride	1328	ND	700	53	63 - 120
c-1,3-dichloropropene	1328	ND	1200	90	79 - 126
cis-1,2-Dichloroethylene	1328	ND	1200	90	84 - 122
t-1,3-Dichloropropene	1328	ND	1300	98	78 - 127

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Sample ID:AB84812

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1328	1300	98	0.0	40
1,1,1-Trichloroethane	1328	1200	90	0.0	40
1,1,2,2-Tetrachloroethane	1328	1200	90	0.0	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1328	1200	90	0.0	40
1,1,2-Trichloroethane	1328	1300	98	8.5	40
1,1-Dichloroethylene	1328	1000	75	10.1	52
1,1-Dichloropropene	1328	1300	98	0.0	40
1,1-dichloroethane	1328	1100	83	8.1	40
1,2,3-Trichlorobenzene	1328	1200	90	0.0	40
1,2,3-Trichloropropane	1328	1200	90	0.0	40
1,2,4-Trichlorobenzene	1328	1200	90	0.0	40
1,2,4-Trimethylbenzene	1328	1400	110	11.5	40
1,2-Dibromo-3-Chloropropane	1328	1100	83	10.1	40
1,2-Dibromoethane	1328	1300	98	0.0	40
1,2-Dichlorobenzene	1328	1300	98	0.0	40
1,2-Dichloroethane	1328	1200	90	0.0	40
1,2-Dichloropropane	1328	1200	90	0.0	40
1,3,5-Trimethylbenzene	1328	1300	98	0.0	40
1,3-Dichlorobenzene	1328	1300	98	0.0	40
1,3-Dichloropropane	1328	1300	98	0.0	40
1,4-Dichlorobenzene	1328	1300	98	0.0	40
2,2-Dichloropropane	1328	1400	110	20.0	40
2-Butanone (MEK)	1328	690	52	0.0	40
2-Chlorotoluene	1328	1300	98	0.0	40
2-Hexanone	1328	1000	75	0.0	40
2-Propanone (acetone)	1328	480	36	2.7	40
4-Chlorotoluene	1328	1300	98	0.0	40
4-Methyl-2-Pentanone(MIBK)	1328	1200	90	0.0	40
Acrylonitrile	1328	950	72	4.1	40
Benzene	1328	1100	83	8.1	24
Bromobenzene	1328	1200	90	8.5	40
Bromochloromethane	1328	1100	83	8.1	40
Bromodichloromethane	1328	1200	90	0.0	40
Bromoform	1328	960	72	2.8	40
Bromomethane	1328	900	68	2.9	40
Carbon Disulfide	1328	900	68	4.5	40
Carbon tetrachloride	1328	1300	98	8.5	40
Chlorobenzene	1328	1200	90	0.0	34
Chloroethane	1328	860	65	1.6	40
Chloroform	1328	1200	90	0.0	40
Chloromethane	1328	1100	83	0.0	40
Dibromochloromethane	1328	1000	75	0.0	40
Dibromomethane	1328	1200	90	0.0	40
Dichlorodifluoromethane	1328	1200	90	8.5	40
Ethyl Ether	1328	800	60	4.9	40
Ethylbenzene	1328	1300	98	0.0	40
Hexachlorobutadiene	1328	1200	90	0.0	40
Isopropylbenzene	1328	1300	98	0.0	40

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Sample ID:AB84812

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
M/P Xylene	2656	2600	98	0.0	40
Methyl-t-Butyl Ether	1328	1600	120	8.7	40
Methylene Chloride	1328	1100	83	0.0	40
N-Butylbenzene	1328	1300	98	0.0	40
N-Propylbenzene	1328	1300	98	0.0	40
Naphthalene	1328	1200	90	0.0	40
Ortho Xylene	1328	1300	98	0.0	40
Para-Isopropyltoluene	1328	1300	98	0.0	40
Sec-Butylbenzene	1328	1300	98	0.0	40
Styrene	1328	1300	98	0.0	40
Tert-Butylbenzene	1328	1300	98	0.0	40
Tetrachloroethylene	1328	1200	90	0.0	40
Tetrahydrofuran	1328	830	62	9.2	40
Toluene	1328	1200	90	0.0	33
Trans-1,2-Dichloroethylene	1328	1100	83	8.1	40
Trichloroethylene	1328	1200	90	8.5	27
Trichlorofluoromethane	1328	1200	90	0.0	40
Vinyl Acetate	1328	1100	83	0.0	40
Vinyl Chloride	1328	730	55	3.7	40
c-1,3-dichloropropene	1328	1200	90	0.0	40
cis-1,2-Dichloroethylene	1328	1100	83	8.1	40
t-1,3-Dichloropropene	1328	1400	110	11.5	40

Ried Cleaners - Great Barrington, MA

Laboratory Duplicate Results

Sample ID: AB84812

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	NC	40
1,1,1-Trichloroethane	ND	ND	NC	40
1,1,2,2-Tetrachloroethane	ND	ND	NC	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	ND	NC	40
1,1,2-Trichloroethane	ND	ND	NC	40
1,1-Dichloroethylene	ND	ND	NC	40
1,1-Dichloropropene	ND	ND	NC	40
1,1-dichloroethane	ND	ND	NC	40
1,2,3-Trichlorobenzene	ND	ND	NC	40
1,2,3-Trichloropropane	ND	ND	NC	40
1,2,4-Trichlorobenzene	ND	ND	NC	40
1,2,4-Trimethylbenzene	ND	ND	NC	40
1,2-Dibromo-3-Chloropropane	ND	ND	NC	40
1,2-Dibromoethane	ND	ND	NC	40
1,2-Dichlorobenzene	ND	ND	NC	40
1,2-Dichloroethane	ND	ND	NC	40
1,2-Dichloropropane	ND	ND	NC	40
1,3,5-Trimethylbenzene	ND	ND	NC	40
1,3-Dichlorobenzene	ND	ND	NC	40
1,3-Dichloropropane	ND	ND	NC	40
1,4-Dichlorobenzene	ND	ND	NC	40
2,2-Dichloropropane	ND	ND	NC	40
2-Butanone (MEK)	ND	ND	NC	40
2-Chlorotoluene	ND	ND	NC	40
2-Hexanone	ND	ND	NC	40
2-Propanone (acetone)	ND	ND	NC	40
4-Chlorotoluene	ND	ND	NC	40
4-Methyl-2-Pentanone(MIBK)	ND	ND	NC	40
Acrylonitrile	ND	ND	NC	40
Benzene	ND	ND	NC	40
Bromobenzene	ND	ND	NC	40
Bromochloromethane	ND	ND	NC	40
Bromodichloromethane	ND	ND	NC	40
Bromoform	ND	ND	NC	40
Bromomethane	ND	ND	NC	40
Carbon Disulfide	ND	ND	NC	40
Carbon tetrachloride	ND	ND	NC	40
Chlorobenzene	ND	ND	NC	40
Chloroethane	ND	ND	NC	40
Chloroform	ND	ND	NC	40
Chloromethane	ND	ND	NC	40
Dibromochloromethane	ND	ND	NC	40
Dibromomethane	ND	ND	NC	40
Dichlorodifluoromethane	ND	ND	NC	40
Ethyl Ether	ND	ND	NC	40
Ethylbenzene	ND	ND	NC	40
Hexachlorobutadiene	ND	ND	NC	40
Isopropylbenzene	ND	ND	NC	40
M/P Xylene	ND	ND	NC	40
Methyl-t-Butyl Ether	ND	ND	NC	40

Ried Cleaners - Great Barrington, MA

Laboratory Duplicate Results

Sample ID: AB84812

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
Methylene Chloride	ND	ND	NC	40
N-Butylbenzene	ND	ND	NC	40
N-Propylbenzene	ND	ND	NC	40
Naphthalene	ND	ND	NC	40
Ortho Xylene	ND	ND	NC	40
Para-Isopropyltoluene	ND	ND	NC	40
Sec-Butylbenzene	ND	ND	NC	40
Styrene	ND	ND	NC	40
Tert-Butylbenzene	ND	ND	NC	40
Tetrachloroethylene	ND	ND	NC	40
Tetrahydrofuran	ND	ND	NC	40
Toluene	ND	ND	NC	40
Trans-1,2-Dichloroethylene	ND	ND	NC	40
Trichloroethylene	ND	ND	NC	40
Trichlorofluoromethane	ND	ND	NC	40
Vinyl Acetate	ND	ND	NC	40
Vinyl Chloride	ND	ND	NC	40
c-1,3-dichloropropene	ND	ND	NC	40
cis-1,2-Dichloroethylene	ND	ND	NC	40
t-1,3-Dichloropropene	ND	ND	NC	40

Ried Cleaners - Great Barrington, MA

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	20.0	98	82 - 121
1,1,1-Trichloroethane	20	22.0	108	74 - 132
1,1,2,2-Tetrachloroethane	20	18.0	91	72 - 117
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	21.0	104	63 - 143
1,1,2-Trichloroethane	20	20.0	98	77 - 119
1,1-Dichloroethylene	20	18.0	88	65 - 132
1,1-Dichloropropene	20	18.0	91	77 - 126
1,1-dichloroethane	20	19.0	97	76 - 123
1,2,3-Trichlorobenzene	20	17.0	87	65 - 122
1,2,3-Trichloropropane	20	17.0	86	64 - 118
1,2,4-Trichlorobenzene	20	17.0	85	67 - 120
1,2,4-Trimethylbenzene	20	18.0	88	78 - 129
1,2-Dibromo-3-Chloropropane	20	19.0	94	58 - 120
1,2-Dibromoethane	20	18.0	91	76 - 115
1,2-Dichlorobenzene	20	17.0	86	77 - 118
1,2-Dichloroethane	20	19.0	97	77 - 124
1,2-Dichloropropane	20	17.0	85	78 - 118
1,3,5-Trimethylbenzene	20	17.0	85	76 - 126
1,3-Dichlorobenzene	20	17.0	84	77 - 118
1,3-Dichloropropane	20	18.0	89	75 - 121
1,4-Dichlorobenzene	20	17.0	85	78 - 116
2,2-Dichloropropane	20	22.0	111	74 - 138
2-Butanone (MEK)	20	15.0	73	21 - 138
2-Chlorotoluene	20	17.0	84	74 - 121
2-Hexanone	20	15.0	77	30 - 132
2-Propanone (acetone)	20	11.0	57	37 - 168
4-Chlorotoluene	20	17.0	85	77 - 121
4-Methyl-2-Pentanone(MIBK)	20	18.0	90	54 - 131
Acrylonitrile	20	20.0	101	55 - 131
Benzene	20	18.0	89	76 - 121
Bromobenzene	20	17.0	85	77 - 116
Bromochloromethane	20	20.0	100	72 - 130
Bromodichloromethane	20	19.0	95	79 - 123
Bromoform	20	18.0	90	74 - 118
Bromomethane	20	22.0	108	55 - 155
Carbon Disulfide	20	19.0	93	64 - 134
Carbon tetrachloride	20	21.0	107	75 - 131
Chlorobenzene	20	19.0	95	74 - 123
Chloroethane	20	22.0	108	66 - 137
Chloroform	20	20.0	100	78 - 126
Chloromethane	20	20.0	99	50 - 162
Dibromochloromethane	20	19.0	96	79 - 122
Dibromomethane	20	18.0	89	75 - 121
Dichlorodifluoromethane	20	27.0	135	69 - 126
Ethyl Ether	20	19.0	93	73 - 120
Ethylbenzene	20	18.0	89	79 - 122
Hexachlorobutadiene	20	16.0	80	71 - 118
Isopropylbenzene	20	17.0	85	76 - 125
M/P Xylene	40	35.0	87	81 - 122
Methyl-t-Butyl Ether	20	22.0	109	73 - 120
Methylene Chloride	20	19.0	93	74 - 132
N-Butylbenzene	20	17.0	85	79 - 128
N-Propylbenzene	20	17.0	86	77 - 123

Ried Cleaners - Great Barrington, MA

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
Naphthalene	20	18.0	88	55 - 118
Ortho Xylene	20	17.0	87	79 - 126
Para-Isopropyltoluene	20	17.0	84	78 - 129
Sec-Butylbenzene	20	17.0	84	78 - 125
Styrene	20	18.0	91	84 - 125
Tert-Butylbenzene	20	17.0	86	79 - 124
Tetrachloroethylene	20	16.0	81	66 - 121
Tetrahydrofuran	20	19.0	96	51 - 130
Toluene	20	19.0	93	75 - 124
Trans-1,2-Dichloroethylene	20	19.0	97	67 - 127
Trichloroethylene	20	17.0	87	76 - 118
Trichlorofluoromethane	20	27.0	133	70 - 138
Vinyl Acetate	20	20.0	98	66 - 126
Vinyl Chloride	20	21.0	103	64 - 144
c-1,3-dichloropropene	20	19.0	97	78 - 125
cis-1,2-Dichloroethylene	20	19.0	96	72 - 128
t-1,3-Dichloropropene	20	21.0	105	79 - 123

Comments:

Ried Cleaners - Great Barrington, MA

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	19.8	99	1	50
1,1,1-Trichloroethane	21.4	107	1	50
1,1,2,2-Tetrachloroethane	18.6	93	3	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	20.6	103	1	50
1,1,2-Trichloroethane	19.9	100	2	50
1,1-Dichloroethylene	18.0	90	2	52
1,1-Dichloropropene	18.5	93	2	50
1,1-dichloroethane	19.7	99	2	50
1,2,3-Trichlorobenzene	17.1	86	1	50
1,2,3-Trichloropropane	17.7	89	3	50
1,2,4-Trichlorobenzene	17.1	86	1	50
1,2,4-Trimethylbenzene	17.6	88	1	50
1,2-Dibromo-3-Chloropropane	19.2	96	3	50
1,2-Dibromoethane	18.8	94	3	50
1,2-Dichlorobenzene	17.2	86	1	50
1,2-Dichloroethane	19.6	98	1	50
1,2-Dichloropropane	17.3	87	2	50
1,3,5-Trimethylbenzene	17.3	87	2	50
1,3-Dichlorobenzene	17.0	85	1	50
1,3-Dichloropropane	18.0	90	1	50
1,4-Dichlorobenzene	17.1	86	1	50
2,2-Dichloropropane	21.4	107	4	50
2-Butanone (MEK)	15.0	75	3	50
2-Chlorotoluene	17.1	86	2	50
2-Hexanone	15.8	79	3	50
2-Propanone (acetone)	11.7	59	4	50
4-Chlorotoluene	17.1	86	1	50
4-Methyl-2-Pentanone(MIBK)	18.6	93	4	50
Acrylonitrile	20.6	103	2	50
Benzene	17.9	90	1	50
Bromobenzene	17.2	86	2	50
Bromochloromethane	20.1	101	1	50
Bromodichloromethane	18.9	95	0	50
Bromoform	18.1	91	1	50
Bromomethane	21.0	105	3	50
Carbon Disulfide	18.6	93	0	50
Carbon tetrachloride	21.2	106	1	50
Chlorobenzene	19.0	95	1	34
Chloroethane	21.2	106	1	50
Chloroform	20.3	102	2	50
Chloromethane	20.0	100	2	50
Dibromochloromethane	19.0	95	1	50
Dibromomethane	18.4	92	3	50
Dichlorodifluoromethane	26.8	134	1	50
Ethyl Ether	18.4	92	1	50
Ethylbenzene	17.7	89	0	50
Hexachlorobutadiene	15.9	80	1	50
Isopropylbenzene	17.0	85	1	50
M/P Xylene	35.4	89	2	50
Methyl-t-Butyl Ether	22.0	110	1	50
Methylene Chloride	18.6	93	0	50

Ried Cleaners - Great Barrington, MA

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
N-Butylbenzene	17.1	86	1	50
N-Propylbenzene	17.3	87	1	50
Naphthalene	18.0	90	2	50
Ortho Xylene	17.4	87	1	50
Para-Isopropyltoluene	16.9	85	1	50
Sec-Butylbenzene	16.8	84	0	50
Styrene	18.4	92	1	50
Tert-Butylbenzene	17.1	86	0	50
Tetrachloroethylene	16.6	83	3	50
Tetrahydrofuran	19.4	97	2	50
Toluene	18.6	93	0	50
Trans-1,2-Dichloroethylene	19.4	97	1	50
Trichloroethylene	17.5	88	1	27
Trichlorofluoromethane	26.3	132	1	50
Vinyl Acetate	19.8	99	2	50
Vinyl Chloride	20.9	105	2	50
c-1,3-dichloropropene	19.5	98	1	50
cis-1,2-Dichloroethylene	19.5	98	2	50
t-1,3-Dichloropropene	21.1	106	1	50

Samples in Batch: AB84794, AB84795, AB84796, AB84797, AB84798, AB84799, AB84800, AB84801, AB84802, AB84803, AB84804, AB84805, AB84806, AB84807, AB84808, AB84809, AB84810, AB84811, AB84812, AB84813

USEPA Region 1

Weston Solutions, Inc.

START IV

N Billerica, MA

CHAIN OF CUSTODY RECORD

Site #: 0346

Contact Name: Bonnie Mace

Contact Phone: 9778-621-1213

No: 1-121119-080219-0001

Ried Cleaners Site

Lab: NERL/OEME

Lab Phone: 617-918-8640

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0346-0011	SB-02D	VOCs	Soil	12/9/2019	13:10	1	40 ml VOA Vial	MeOH	N
	0346-0012	SB-102D	Percent Solids (% Solids)	Soil	12/9/2019	13:10	1	40 ml VOA Vial	4 C	N
	0346-0012	SB-102D	VOCs	Soil	12/9/2019	13:10	1	40 ml VOA Vial	MeOH	N
	0346-0013	SB-02E	Percent Solids (% Solids)	Soil	12/9/2019	13:30	1	40 ml VOA Vial	4 C	N
	0346-0013	SB-02E	VOCs	Soil	12/9/2019	13:30	1	40 ml VOA Vial	MeOH	N
	0346-0014	SB-02F	Percent Solids (% Solids)	Soil	12/9/2019	13:32	1	40 ml VOA Vial	4 C	N
	0346-0014	SB-02F	VOCs	Soil	12/9/2019	13:32	1	40 ml VOA Vial	MeOH	N
	0346-0015	SB-03A	Percent Solids (% Solids)	Soil	12/9/2019	13:50	1	40 ml VOA Vial	4 C	N
	0346-0015	SB-03A	VOCs	Soil	12/9/2019	13:50	1	40 ml VOA Vial	MeOH	N
	0346-0016	SB-03B	Percent Solids (% Solids)	Soil	12/9/2019	13:53	1	40 ml VOA Vial	4 C	N
	0346-0016	SB-03B	VOCs	Soil	12/9/2019	13:53	1	40 ml VOA Vial	MeOH	N
	0346-0017	SB-03C	Percent Solids (% Solids)	Soil	12/9/2019	13:55	1	40 ml VOA Vial	4 C	N
	0346-0017	SB-03C	VOCs	Soil	12/9/2019	13:55	1	40 ml VOA Vial	MeOH	N
	0346-0018	SB-03D	Percent Solids (% Solids)	Soil	12/9/2019	13:57	1	40 ml VOA Vial	4 C	N
	0346-0018	SB-03D	VOCs	Soil	12/9/2019	13:57	2	40 ml VOA Vial	MeOH	Y
	0346-0019	SB-03E	Percent Solids (% Solids)	Soil	12/9/2019	14:05	1	40 ml VOA Vial	4 C	N
	0346-0019	SB-03E	VOCs	Soil	12/9/2019	14:05	1	40 ml VOA Vial	MeOH	N
	0346-0020	SB-03F	Percent Solids (% Solids)	Soil	12/9/2019	14:08	1	40 ml VOA Vial	4 C	N
	0346-0020	SB-03F	VOCs	Soil	12/9/2019	14:08	1	40 ml VOA Vial	MeOH	N

Special Instructions: Please forward results to OSC Mike Cofsky.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Bonnie Mace	12/11/19 14:40	<i>[Signature]</i> EST	12/11/19 14:40	

PN: 19120013

USEPA Region 1

Weston Solutions, Inc.

START IV

N Billerica, MA

CHAIN OF CUSTODY RECORD

Site #: 0346

Contact Name: Bonnie Mace

Contact Phone: 9778-621-1213

No: 1-121119-080219-0001

Ried Cleaners Site

Lab: NERL/OEME

Lab Phone: 617-918-8640

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0346-0001	MLV0301	VOCs	Lab Sand	12/9/2019	14:00	1	40 ml VOA Vial	MeOH	N
	0346-0002	RB-01	VOCs	Soil	12/9/2019	13:45	3	40 ml VOA Vial	MeOH 4 C	N
	0346-0003	SB-01A	Percent Solids (% Solids)	Soil	12/9/2019	12:25	1	40 ml VOA Vial	4 C	N
	0346-0003	SB-01A	VOCs	Soil	12/9/2019	12:25	1	40 ml VOA Vial	MeOH	N
	0346-0004	SB-01B	Percent Solids (% Solids)	Soil	12/9/2019	12:27	1	40 ml VOA Vial	4 C	N
	0346-0004	SB-01B	VOCs	Soil	12/9/2019	12:27	1	40 ml VOA Vial	MeOH	N
	0346-0005	SB-01C	Percent Solids (% Solids)	Soil	12/9/2019	12:29	1	40 ml VOA Vial	4 C	N
	0346-0005	SB-01C	VOCs	Soil	12/9/2019	12:29	1	40 ml VOA Vial	MeOH	N
	0346-0006	SB-01D	Percent Solids (% Solids)	Soil	12/9/2019	12:32	1	40 ml VOA Vial	4 C	N
	0346-0006	SB-01D	VOCs	Soil	12/9/2019	12:32	1	40 ml VOA Vial	MeOH	N
	0346-0007	SB-01E	Percent Solids (% Solids)	Soil	12/9/2019	12:45	1	40 ml VOA Vial	4 C	N
	0346-0007	SB-01E	VOCs	Soil	12/9/2019	12:45	1	40 ml VOA Vial	MeOH	N
	0346-0008	SB-01F	Percent Solids (% Solids)	Soil	12/9/2019	12:48	1	40 ml VOA Vial	4 C	N
	0346-0008	SB-01F	VOCs	Soil	12/9/2019	12:48	1	40 ml VOA Vial	MeOH	N
	0346-0009	SB-02AB	Percent Solids (% Solids)	Soil	12/9/2019	13:05	1	40 ml VOA Vial	4 C	N
	0346-0009	SB-02AB	VOCs	Soil	12/9/2019	13:05	1	40 ml VOA Vial	MeOH	N
	0346-0010	SB-02C	Percent Solids (% Solids)	Soil	12/9/2019	13:08	1	40 ml VOA Vial	4 C	N
	0346-0010	SB-02C	VOCs	Soil	12/9/2019	13:08	1	40 ml VOA Vial	MeOH	N
	0346-0011	SB-02D	Percent Solids (% Solids)	Soil	12/9/2019	13:10	1	40 ml VOA Vial	4 C	N

Special Instructions: Please forward results to OSC Mike Cofsky.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Bonnie Mace	1440 12/11/19	1440 12/11/19		



Laboratory Report

January 06, 2020

Mike Cofsky - Mail Code 02-2
US EPA New England R1

Project Number: 19120014
Project: Ried Cleaners - Great Barrington, MA
Analysis: VOAs in Soil High Level Method
EPA Chemist: Allison Connors

Date Samples Received by the Laboratory: 12/11/2019

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, LSBSOP-VOAGCMS10.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar preconcentrator and an Archon auto-sampler. The analysis SOP is based on US EPA Method 8260B, revision 2.0, 1996 and Method 5035A, draft revision 1, 2002, from SW-846.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by DANIEL BOUDREAU
DN: c=US, o=U.S. Government,
ou=Environmental Protection Agency,
cn=DANIEL BOUDREAU,
0.9.2342.19200300.100.1.1=68001003654558
Date: 2020.01.06 17:10:37 -05'00'

19120014\$VOAHS

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C = The identification has been confirmed by GC/MS.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0021
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 8.018 grams
Wet Weight Prepared: 10.413 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84814
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 77%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	77	
75-01-4	Vinyl Chloride	ND	77	
74-83-9	Bromomethane	ND	77	
75-00-3	Chloroethane	ND	77	
75-69-4	Trichlorofluoromethane	ND	77	
60-29-7	Ethyl Ether	ND	77	
67-64-1	2-Propanone (acetone)	ND	390	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	77	
75-35-4	1,1-Dichloroethylene	ND	77	
75-15-0	Carbon Disulfide	ND	77	
75-71-8	Dichlorodifluoromethane	ND	77	
75-09-2	Methylene Chloride	ND	77	
107-13-1	Acrylonitrile	ND	77	
1634-04-4	Methyl-t-Butyl Ether	ND	77	
156-60-5	Trans-1,2-Dichloroethylene	ND	77	
75-34-3	1,1-dichloroethane	ND	77	
108-05-4	Vinyl Acetate	ND	77	
78-93-3	2-Butanone (MEK)	ND	77	
594-20-7	2,2-Dichloropropane	ND	77	
156-59-2	cis-1,2-Dichloroethylene	ND	77	
67-66-3	Chloroform	ND	77	
74-97-5	Bromochloromethane	ND	77	
109-99-9	Tetrahydrofuran	ND	77	
71-55-6	1,1,1-Trichloroethane	ND	77	
107-06-2	1,2-Dichloroethane	ND	77	
56-23-5	Carbon tetrachloride	ND	77	
71-43-2	Benzene	ND	77	
10061-01-5	c-1,3-dichloropropene	ND	77	
108-88-3	Toluene	ND	77	
10061-02-6	t-1,3-Dichloropropene	ND	77	
79-00-5	1,1,2-Trichloroethane	ND	77	
124-48-1	Dibromochloromethane	ND	77	
108-90-7	Chlorobenzene	ND	77	
563-58-6	1,1-Dichloropropene	ND	77	
79-01-6	Trichloroethylene	ND	77	
78-87-5	1,2-Dichloropropane	ND	77	
75-27-4	Bromodichloromethane	ND	77	
74-95-3	Dibromomethane	ND	77	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	77	
142-28-9	1,3-Dichloropropane	ND	77	
127-18-4	Tetrachloroethylene	160	77	
106-93-4	1,2-Dibromoethane	ND	77	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0021
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 8.018 grams
Wet Weight Prepared: 10.413 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84814
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 77%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	77	
630-20-6	1,1,1,2-Tetrachloroethane	ND	77	
100-41-4	Ethylbenzene	ND	77	
108-38-3/106-42-3	M/P Xylene	ND	150	
95-47-6	Ortho Xylene	ND	77	
100-42-5	Styrene	ND	77	
75-25-2	Bromoform	ND	77	
79-34-5	1,1,2,2-Tetrachloroethane	ND	77	
98-82-8	Isopropylbenzene	ND	77	
108-86-1	Bromobenzene	ND	77	
96-18-4	1,2,3-Trichloropropane	ND	77	
103-65-1	N-Propylbenzene	ND	77	
95-49-8	2-Chlorotoluene	ND	77	
106-43-4	4-Chlorotoluene	ND	77	
98-06-6	Tert-Butylbenzene	ND	77	
108-67-8	1,3,5-Trimethylbenzene	ND	77	
95-63-6	1,2,4-Trimethylbenzene	ND	77	
135-98-8	Sec-Butylbenzene	ND	77	
541-73-1	1,3-Dichlorobenzene	ND	77	
99-87-6	Para-Isopropyltoluene	ND	77	
106-46-7	1,4-Dichlorobenzene	ND	77	
95-50-1	1,2-Dichlorobenzene	ND	77	
104-51-8	N-Butylbenzene	ND	77	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	77	
120-82-1	1,2,4-Trichlorobenzene	ND	77	
87-68-3	Hexachlorobutadiene	ND	77	
91-20-3	Naphthalene	ND	77	
87-61-6	1,2,3-Trichlorobenzene	ND	77	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	85 - 131
Toluene-D8	95	84 - 118
1,4-Bromofluorobenzene	95	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0022
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 8.335 grams
Wet Weight Prepared: 9.806 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84815
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	69	
75-01-4	Vinyl Chloride	ND	69	
74-83-9	Bromomethane	ND	69	
75-00-3	Chloroethane	ND	69	
75-69-4	Trichlorofluoromethane	ND	69	
60-29-7	Ethyl Ether	ND	69	
67-64-1	2-Propanone (acetone)	ND	350	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	69	
75-35-4	1,1-Dichloroethylene	ND	69	
75-15-0	Carbon Disulfide	ND	69	
75-71-8	Dichlorodifluoromethane	ND	69	
75-09-2	Methylene Chloride	ND	69	
107-13-1	Acrylonitrile	ND	69	
1634-04-4	Methyl-t-Butyl Ether	ND	69	
156-60-5	Trans-1,2-Dichloroethylene	ND	69	
75-34-3	1,1-dichloroethane	ND	69	
108-05-4	Vinyl Acetate	ND	69	
78-93-3	2-Butanone (MEK)	ND	69	
594-20-7	2,2-Dichloropropane	ND	69	
156-59-2	cis-1,2-Dichloroethylene	ND	69	
67-66-3	Chloroform	ND	69	
74-97-5	Bromochloromethane	ND	69	
109-99-9	Tetrahydrofuran	ND	69	
71-55-6	1,1,1-Trichloroethane	ND	69	
107-06-2	1,2-Dichloroethane	ND	69	
56-23-5	Carbon tetrachloride	ND	69	
71-43-2	Benzene	ND	69	
10061-01-5	c-1,3-dichloropropene	ND	69	
108-88-3	Toluene	ND	69	
10061-02-6	t-1,3-Dichloropropene	ND	69	
79-00-5	1,1,2-Trichloroethane	ND	69	
124-48-1	Dibromochloromethane	ND	69	
108-90-7	Chlorobenzene	ND	69	
563-58-6	1,1-Dichloropropene	ND	69	
79-01-6	Trichloroethylene	ND	69	
78-87-5	1,2-Dichloropropane	ND	69	
75-27-4	Bromodichloromethane	ND	69	
74-95-3	Dibromomethane	ND	69	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	69	
142-28-9	1,3-Dichloropropane	ND	69	
127-18-4	Tetrachloroethylene	490	69	
106-93-4	1,2-Dibromoethane	ND	69	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0022
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 8.335 grams
Wet Weight Prepared: 9.806 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84815
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	69	
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	
100-41-4	Ethylbenzene	ND	69	
108-38-3/106-42-3	M/P Xylene	ND	140	
95-47-6	Ortho Xylene	ND	69	
100-42-5	Styrene	ND	69	
75-25-2	Bromoform	ND	69	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	
98-82-8	Isopropylbenzene	ND	69	
108-86-1	Bromobenzene	ND	69	
96-18-4	1,2,3-Trichloropropane	ND	69	
103-65-1	N-Propylbenzene	ND	69	
95-49-8	2-Chlorotoluene	ND	69	
106-43-4	4-Chlorotoluene	ND	69	
98-06-6	Tert-Butylbenzene	ND	69	
108-67-8	1,3,5-Trimethylbenzene	ND	69	
95-63-6	1,2,4-Trimethylbenzene	ND	69	
135-98-8	Sec-Butylbenzene	ND	69	
541-73-1	1,3-Dichlorobenzene	ND	69	
99-87-6	Para-Isopropyltoluene	ND	69	
106-46-7	1,4-Dichlorobenzene	ND	69	
95-50-1	1,2-Dichlorobenzene	ND	69	
104-51-8	N-Butylbenzene	ND	69	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	69	
120-82-1	1,2,4-Trichlorobenzene	ND	69	
87-68-3	Hexachlorobutadiene	ND	69	
91-20-3	Naphthalene	ND	69	
87-61-6	1,2,3-Trichlorobenzene	ND	69	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	97	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	95	56 - 125

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/18/2019	Amount Prepared:	5 mL
Date of Analysis:	12/18/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/18/2019	Amount Prepared:	5 mL
Date of Analysis:	12/18/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	95	56 - 125

Comments: Method Blank for AB84814, AB84815, AB84816, and AB84817.

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0023
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 7.987 grams
Wet Weight Prepared: 9.623 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84816
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	73	
75-01-4	Vinyl Chloride	ND	73	
74-83-9	Bromomethane	ND	73	
75-00-3	Chloroethane	ND	73	
75-69-4	Trichlorofluoromethane	ND	73	
60-29-7	Ethyl Ether	ND	73	
67-64-1	2-Propanone (acetone)	ND	370	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	73	
75-35-4	1,1-Dichloroethylene	ND	73	
75-15-0	Carbon Disulfide	ND	73	
75-71-8	Dichlorodifluoromethane	ND	73	
75-09-2	Methylene Chloride	ND	73	
107-13-1	Acrylonitrile	ND	73	
1634-04-4	Methyl-t-Butyl Ether	ND	73	
156-60-5	Trans-1,2-Dichloroethylene	ND	73	
75-34-3	1,1-dichloroethane	ND	73	
108-05-4	Vinyl Acetate	ND	73	
78-93-3	2-Butanone (MEK)	ND	73	
594-20-7	2,2-Dichloropropane	ND	73	
156-59-2	cis-1,2-Dichloroethylene	ND	73	
67-66-3	Chloroform	ND	73	
74-97-5	Bromochloromethane	ND	73	
109-99-9	Tetrahydrofuran	ND	73	
71-55-6	1,1,1-Trichloroethane	ND	73	
107-06-2	1,2-Dichloroethane	ND	73	
56-23-5	Carbon tetrachloride	ND	73	
71-43-2	Benzene	ND	73	
10061-01-5	c-1,3-dichloropropene	ND	73	
108-88-3	Toluene	ND	73	
10061-02-6	t-1,3-Dichloropropene	ND	73	
79-00-5	1,1,2-Trichloroethane	ND	73	
124-48-1	Dibromochloromethane	ND	73	
108-90-7	Chlorobenzene	ND	73	
563-58-6	1,1-Dichloropropene	ND	73	
79-01-6	Trichloroethylene	ND	73	
78-87-5	1,2-Dichloropropane	ND	73	
75-27-4	Bromodichloromethane	ND	73	
74-95-3	Dibromomethane	ND	73	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	73	
142-28-9	1,3-Dichloropropane	ND	73	
127-18-4	Tetrachloroethylene	540	73	
106-93-4	1,2-Dibromoethane	ND	73	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0023
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 7.987 grams
Wet Weight Prepared: 9.623 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84816
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	73	
630-20-6	1,1,1,2-Tetrachloroethane	ND	73	
100-41-4	Ethylbenzene	ND	73	
108-38-3/106-42-3	M/P Xylene	ND	150	
95-47-6	Ortho Xylene	ND	73	
100-42-5	Styrene	ND	73	
75-25-2	Bromoform	ND	73	
79-34-5	1,1,2,2-Tetrachloroethane	ND	73	
98-82-8	Isopropylbenzene	ND	73	
108-86-1	Bromobenzene	ND	73	
96-18-4	1,2,3-Trichloropropane	ND	73	
103-65-1	N-Propylbenzene	ND	73	
95-49-8	2-Chlorotoluene	ND	73	
106-43-4	4-Chlorotoluene	ND	73	
98-06-6	Tert-Butylbenzene	ND	73	
108-67-8	1,3,5-Trimethylbenzene	ND	73	
95-63-6	1,2,4-Trimethylbenzene	ND	73	
135-98-8	Sec-Butylbenzene	ND	73	
541-73-1	1,3-Dichlorobenzene	ND	73	
99-87-6	Para-Isopropyltoluene	ND	73	
106-46-7	1,4-Dichlorobenzene	ND	73	
95-50-1	1,2-Dichlorobenzene	ND	73	
104-51-8	N-Butylbenzene	ND	73	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	73	
120-82-1	1,2,4-Trichlorobenzene	ND	73	
87-68-3	Hexachlorobutadiene	ND	73	
91-20-3	Naphthalene	ND	73	
87-61-6	1,2,3-Trichlorobenzene	ND	73	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	98	85 - 131
Toluene-D8	95	84 - 118
1,4-Bromofluorobenzene	93	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0024
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 7.986 grams
Wet Weight Prepared: 9.739 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84817
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 82%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	74	
75-01-4	Vinyl Chloride	ND	74	
74-83-9	Bromomethane	ND	74	
75-00-3	Chloroethane	ND	74	
75-69-4	Trichlorofluoromethane	ND	74	
60-29-7	Ethyl Ether	ND	74	
67-64-1	2-Propanone (acetone)	ND	370	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	74	
75-35-4	1,1-Dichloroethylene	ND	74	
75-15-0	Carbon Disulfide	ND	74	
75-71-8	Dichlorodifluoromethane	ND	74	
75-09-2	Methylene Chloride	ND	74	
107-13-1	Acrylonitrile	ND	74	
1634-04-4	Methyl-t-Butyl Ether	ND	74	
156-60-5	Trans-1,2-Dichloroethylene	ND	74	
75-34-3	1,1-dichloroethane	ND	74	
108-05-4	Vinyl Acetate	ND	74	
78-93-3	2-Butanone (MEK)	ND	74	
594-20-7	2,2-Dichloropropane	ND	74	
156-59-2	cis-1,2-Dichloroethylene	ND	74	
67-66-3	Chloroform	ND	74	
74-97-5	Bromochloromethane	ND	74	
109-99-9	Tetrahydrofuran	ND	74	
71-55-6	1,1,1-Trichloroethane	ND	74	
107-06-2	1,2-Dichloroethane	ND	74	
56-23-5	Carbon tetrachloride	ND	74	
71-43-2	Benzene	ND	74	
10061-01-5	c-1,3-dichloropropene	ND	74	
108-88-3	Toluene	ND	74	
10061-02-6	t-1,3-Dichloropropene	ND	74	
79-00-5	1,1,2-Trichloroethane	ND	74	
124-48-1	Dibromochloromethane	ND	74	
108-90-7	Chlorobenzene	ND	74	
563-58-6	1,1-Dichloropropene	ND	74	
79-01-6	Trichloroethylene	ND	74	
78-87-5	1,2-Dichloropropane	ND	74	
75-27-4	Bromodichloromethane	ND	74	
74-95-3	Dibromomethane	ND	74	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	74	
142-28-9	1,3-Dichloropropane	ND	74	
127-18-4	Tetrachloroethylene	460	74	
106-93-4	1,2-Dibromoethane	ND	74	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0024
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 7.986 grams
Wet Weight Prepared: 9.739 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84817
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 82%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	74	
630-20-6	1,1,1,2-Tetrachloroethane	ND	74	
100-41-4	Ethylbenzene	ND	74	
108-38-3/106-42-3	M/P Xylene	ND	150	
95-47-6	Ortho Xylene	ND	74	
100-42-5	Styrene	ND	74	
75-25-2	Bromoform	ND	74	
79-34-5	1,1,2,2-Tetrachloroethane	ND	74	
98-82-8	Isopropylbenzene	ND	74	
108-86-1	Bromobenzene	ND	74	
96-18-4	1,2,3-Trichloropropane	ND	74	
103-65-1	N-Propylbenzene	ND	74	
95-49-8	2-Chlorotoluene	ND	74	
106-43-4	4-Chlorotoluene	ND	74	
98-06-6	Tert-Butylbenzene	ND	74	
108-67-8	1,3,5-Trimethylbenzene	ND	74	
95-63-6	1,2,4-Trimethylbenzene	ND	74	
135-98-8	Sec-Butylbenzene	ND	74	
541-73-1	1,3-Dichlorobenzene	ND	74	
99-87-6	Para-Isopropyltoluene	ND	74	
106-46-7	1,4-Dichlorobenzene	ND	74	
95-50-1	1,2-Dichlorobenzene	ND	74	
104-51-8	N-Butylbenzene	ND	74	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	74	
120-82-1	1,2,4-Trichlorobenzene	ND	74	
87-68-3	Hexachlorobutadiene	ND	74	
91-20-3	Naphthalene	ND	74	
87-61-6	1,2,3-Trichlorobenzene	ND	74	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	85 - 131
Toluene-D8	95	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0025
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 8.551 grams
Wet Weight Prepared: 10.557 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84818
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 81%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	70	
75-01-4	Vinyl Chloride	ND	70	
74-83-9	Bromomethane	ND	70	
75-00-3	Chloroethane	ND	70	
75-69-4	Trichlorofluoromethane	ND	70	
60-29-7	Ethyl Ether	ND	70	
67-64-1	2-Propanone (acetone)	ND	350	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	70	
75-35-4	1,1-Dichloroethylene	ND	70	
75-15-0	Carbon Disulfide	ND	70	
75-71-8	Dichlorodifluoromethane	ND	70	
75-09-2	Methylene Chloride	ND	70	
107-13-1	Acrylonitrile	ND	70	
1634-04-4	Methyl-t-Butyl Ether	ND	70	
156-60-5	Trans-1,2-Dichloroethylene	ND	70	
75-34-3	1,1-dichloroethane	ND	70	
108-05-4	Vinyl Acetate	ND	70	
78-93-3	2-Butanone (MEK)	ND	70	
594-20-7	2,2-Dichloropropane	ND	70	
156-59-2	cis-1,2-Dichloroethylene	ND	70	
67-66-3	Chloroform	ND	70	
74-97-5	Bromochloromethane	ND	70	
109-99-9	Tetrahydrofuran	ND	70	
71-55-6	1,1,1-Trichloroethane	ND	70	
107-06-2	1,2-Dichloroethane	ND	70	
56-23-5	Carbon tetrachloride	ND	70	
71-43-2	Benzene	ND	70	
10061-01-5	c-1,3-dichloropropene	ND	70	
108-88-3	Toluene	ND	70	
10061-02-6	t-1,3-Dichloropropene	ND	70	
79-00-5	1,1,2-Trichloroethane	ND	70	
124-48-1	Dibromochloromethane	ND	70	
108-90-7	Chlorobenzene	ND	70	
563-58-6	1,1-Dichloropropene	ND	70	
79-01-6	Trichloroethylene	ND	70	
78-87-5	1,2-Dichloropropane	ND	70	
75-27-4	Bromodichloromethane	ND	70	
74-95-3	Dibromomethane	ND	70	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	70	
142-28-9	1,3-Dichloropropane	ND	70	
127-18-4	Tetrachloroethylene	ND	70	
106-93-4	1,2-Dibromoethane	ND	70	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0025
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 8.551 grams
Wet Weight Prepared: 10.557 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84818
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 81%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	70	
630-20-6	1,1,1,2-Tetrachloroethane	ND	70	
100-41-4	Ethylbenzene	ND	70	
108-38-3/106-42-3	M/P Xylene	ND	140	
95-47-6	Ortho Xylene	ND	70	
100-42-5	Styrene	ND	70	
75-25-2	Bromoform	ND	70	
79-34-5	1,1,2,2-Tetrachloroethane	ND	70	
98-82-8	Isopropylbenzene	ND	70	
108-86-1	Bromobenzene	ND	70	
96-18-4	1,2,3-Trichloropropane	ND	70	
103-65-1	N-Propylbenzene	ND	70	
95-49-8	2-Chlorotoluene	ND	70	
106-43-4	4-Chlorotoluene	ND	70	
98-06-6	Tert-Butylbenzene	ND	70	
108-67-8	1,3,5-Trimethylbenzene	ND	70	
95-63-6	1,2,4-Trimethylbenzene	ND	70	
135-98-8	Sec-Butylbenzene	ND	70	
541-73-1	1,3-Dichlorobenzene	ND	70	
99-87-6	Para-Isopropyltoluene	ND	70	
106-46-7	1,4-Dichlorobenzene	ND	70	
95-50-1	1,2-Dichlorobenzene	ND	70	
104-51-8	N-Butylbenzene	ND	70	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	70	
120-82-1	1,2,4-Trichlorobenzene	ND	70	
87-68-3	Hexachlorobutadiene	ND	70	
91-20-3	Naphthalene	ND	70	
87-61-6	1,2,3-Trichlorobenzene	ND	70	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	85 - 131
Toluene-D8	95	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/18/2019	Amount Prepared:	5 mL
Date of Analysis:	12/18/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/18/2019	Amount Prepared:	5 mL
Date of Analysis:	12/18/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	95	56 - 125

Comments: Method Blank for AB84818 and AB84821

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0026
Date of Collection: 12/09/2019
Date of Preparation: 12/23/2019
Date of Analysis: 12/23/2019
Dry Weight Prepared: 9.917 grams
Wet Weight Prepared: 11.667 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84819
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	59	
75-01-4	Vinyl Chloride	ND	59	
74-83-9	Bromomethane	ND	59	
75-00-3	Chloroethane	ND	59	
75-69-4	Trichlorofluoromethane	ND	59	
60-29-7	Ethyl Ether	ND	59	
67-64-1	2-Propanone (acetone)	ND	300	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	59	
75-35-4	1,1-Dichloroethylene	ND	59	
75-15-0	Carbon Disulfide	ND	59	
75-71-8	Dichlorodifluoromethane	ND	59	
75-09-2	Methylene Chloride	ND	59	
107-13-1	Acrylonitrile	ND	59	
1634-04-4	Methyl-t-Butyl Ether	ND	59	
156-60-5	Trans-1,2-Dichloroethylene	ND	59	
75-34-3	1,1-dichloroethane	ND	59	
108-05-4	Vinyl Acetate	ND	59	
78-93-3	2-Butanone (MEK)	ND	59	
594-20-7	2,2-Dichloropropane	ND	59	
156-59-2	cis-1,2-Dichloroethylene	ND	59	
67-66-3	Chloroform	ND	59	
74-97-5	Bromochloromethane	ND	59	
109-99-9	Tetrahydrofuran	ND	59	
71-55-6	1,1,1-Trichloroethane	ND	59	
107-06-2	1,2-Dichloroethane	ND	59	
56-23-5	Carbon tetrachloride	ND	59	
71-43-2	Benzene	ND	59	
10061-01-5	c-1,3-dichloropropene	ND	59	
108-88-3	Toluene	ND	59	
10061-02-6	t-1,3-Dichloropropene	ND	59	
79-00-5	1,1,2-Trichloroethane	ND	59	
124-48-1	Dibromochloromethane	ND	59	
108-90-7	Chlorobenzene	ND	59	
563-58-6	1,1-Dichloropropene	ND	59	
79-01-6	Trichloroethylene	ND	59	
78-87-5	1,2-Dichloropropane	ND	59	
75-27-4	Bromodichloromethane	ND	59	
74-95-3	Dibromomethane	ND	59	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	59	
142-28-9	1,3-Dichloropropane	ND	59	
127-18-4	Tetrachloroethylene	ND	59	
106-93-4	1,2-Dibromoethane	ND	59	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0026
Date of Collection: 12/09/2019
Date of Preparation: 12/23/2019
Date of Analysis: 12/23/2019
Dry Weight Prepared: 9.917 grams
Wet Weight Prepared: 11.667 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84819
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	59	
630-20-6	1,1,1,2-Tetrachloroethane	ND	59	
100-41-4	Ethylbenzene	ND	59	
108-38-3/106-42-3	M/P Xylene	ND	120	
95-47-6	Ortho Xylene	ND	59	
100-42-5	Styrene	ND	59	
75-25-2	Bromoform	ND	59	
79-34-5	1,1,2,2-Tetrachloroethane	ND	59	
98-82-8	Isopropylbenzene	ND	59	
108-86-1	Bromobenzene	ND	59	
96-18-4	1,2,3-Trichloropropane	ND	59	
103-65-1	N-Propylbenzene	ND	59	
95-49-8	2-Chlorotoluene	ND	59	
106-43-4	4-Chlorotoluene	ND	59	
98-06-6	Tert-Butylbenzene	ND	59	
108-67-8	1,3,5-Trimethylbenzene	ND	59	
95-63-6	1,2,4-Trimethylbenzene	ND	59	
135-98-8	Sec-Butylbenzene	ND	59	
541-73-1	1,3-Dichlorobenzene	ND	59	
99-87-6	Para-Isopropyltoluene	ND	59	
106-46-7	1,4-Dichlorobenzene	ND	59	
95-50-1	1,2-Dichlorobenzene	ND	59	
104-51-8	N-Butylbenzene	ND	59	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	59	
120-82-1	1,2,4-Trichlorobenzene	ND	59	
87-68-3	Hexachlorobutadiene	ND	59	
91-20-3	Naphthalene	ND	59	
87-61-6	1,2,3-Trichlorobenzene	ND	59	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	85 - 131
Toluene-D8	98	84 - 118
1,4-Bromofluorobenzene	95	56 - 125

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/23/2019	Amount Prepared:	5 mL
Date of Analysis:	12/23/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/23/2019	Amount Prepared:	5 mL
Date of Analysis:	12/23/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	85 - 131
Toluene-D8	97	84 - 118
1,4-Bromofluorobenzene	96	56 - 125

Comments: Method Blank for AB84819 and AB84820

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0027
Date of Collection: 12/09/2019
Date of Preparation: 12/23/2019
Date of Analysis: 12/23/2019
Dry Weight Prepared: 9.077 grams
Wet Weight Prepared: 10.433 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84820
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	63	
75-01-4	Vinyl Chloride	ND	63	
74-83-9	Bromomethane	ND	63	
75-00-3	Chloroethane	ND	63	
75-69-4	Trichlorofluoromethane	ND	63	
60-29-7	Ethyl Ether	ND	63	
67-64-1	2-Propanone (acetone)	ND	320	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	63	
75-35-4	1,1-Dichloroethylene	ND	63	
75-15-0	Carbon Disulfide	ND	63	
75-71-8	Dichlorodifluoromethane	ND	63	
75-09-2	Methylene Chloride	ND	63	
107-13-1	Acrylonitrile	ND	63	
1634-04-4	Methyl-t-Butyl Ether	ND	63	
156-60-5	Trans-1,2-Dichloroethylene	ND	63	
75-34-3	1,1-dichloroethane	ND	63	
108-05-4	Vinyl Acetate	ND	63	
78-93-3	2-Butanone (MEK)	ND	63	
594-20-7	2,2-Dichloropropane	ND	63	
156-59-2	cis-1,2-Dichloroethylene	ND	63	
67-66-3	Chloroform	ND	63	
74-97-5	Bromochloromethane	ND	63	
109-99-9	Tetrahydrofuran	ND	63	
71-55-6	1,1,1-Trichloroethane	ND	63	
107-06-2	1,2-Dichloroethane	ND	63	
56-23-5	Carbon tetrachloride	ND	63	
71-43-2	Benzene	ND	63	
10061-01-5	c-1,3-dichloropropene	ND	63	
108-88-3	Toluene	ND	63	
10061-02-6	t-1,3-Dichloropropene	ND	63	
79-00-5	1,1,2-Trichloroethane	ND	63	
124-48-1	Dibromochloromethane	ND	63	
108-90-7	Chlorobenzene	ND	63	
563-58-6	1,1-Dichloropropene	ND	63	
79-01-6	Trichloroethylene	ND	63	
78-87-5	1,2-Dichloropropane	ND	63	
75-27-4	Bromodichloromethane	ND	63	
74-95-3	Dibromomethane	ND	63	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	63	
142-28-9	1,3-Dichloropropane	ND	63	
127-18-4	Tetrachloroethylene	170	63	
106-93-4	1,2-Dibromoethane	ND	63	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0027
Date of Collection: 12/09/2019
Date of Preparation: 12/23/2019
Date of Analysis: 12/23/2019
Dry Weight Prepared: 9.077 grams
Wet Weight Prepared: 10.433 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84820
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 87%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	63	
630-20-6	1,1,1,2-Tetrachloroethane	ND	63	
100-41-4	Ethylbenzene	ND	63	
108-38-3/106-42-3	M/P Xylene	ND	130	
95-47-6	Ortho Xylene	ND	63	
100-42-5	Styrene	ND	63	
75-25-2	Bromoform	ND	63	
79-34-5	1,1,2,2-Tetrachloroethane	ND	63	
98-82-8	Isopropylbenzene	ND	63	
108-86-1	Bromobenzene	ND	63	
96-18-4	1,2,3-Trichloropropane	ND	63	
103-65-1	N-Propylbenzene	ND	63	
95-49-8	2-Chlorotoluene	ND	63	
106-43-4	4-Chlorotoluene	ND	63	
98-06-6	Tert-Butylbenzene	ND	63	
108-67-8	1,3,5-Trimethylbenzene	ND	63	
95-63-6	1,2,4-Trimethylbenzene	ND	63	
135-98-8	Sec-Butylbenzene	ND	63	
541-73-1	1,3-Dichlorobenzene	ND	63	
99-87-6	Para-Isopropyltoluene	ND	63	
106-46-7	1,4-Dichlorobenzene	ND	63	
95-50-1	1,2-Dichlorobenzene	ND	63	
104-51-8	N-Butylbenzene	ND	63	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	63	
120-82-1	1,2,4-Trichlorobenzene	ND	63	
87-68-3	Hexachlorobutadiene	ND	63	
91-20-3	Naphthalene	ND	63	
87-61-6	1,2,3-Trichlorobenzene	ND	63	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	96	85 - 131
Toluene-D8	97	84 - 118
1,4-Bromofluorobenzene	96	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0028
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 9.340 grams
Wet Weight Prepared: 10.861 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84821
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 86%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	62	
75-01-4	Vinyl Chloride	ND	62	
74-83-9	Bromomethane	ND	62	
75-00-3	Chloroethane	ND	62	
75-69-4	Trichlorofluoromethane	ND	62	
60-29-7	Ethyl Ether	ND	62	
67-64-1	2-Propanone (acetone)	ND	310	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	62	
75-35-4	1,1-Dichloroethylene	ND	62	
75-15-0	Carbon Disulfide	ND	62	
75-71-8	Dichlorodifluoromethane	ND	62	
75-09-2	Methylene Chloride	ND	62	
107-13-1	Acrylonitrile	ND	62	
1634-04-4	Methyl-t-Butyl Ether	ND	62	
156-60-5	Trans-1,2-Dichloroethylene	ND	62	
75-34-3	1,1-dichloroethane	ND	62	
108-05-4	Vinyl Acetate	ND	62	
78-93-3	2-Butanone (MEK)	ND	62	
594-20-7	2,2-Dichloropropane	ND	62	
156-59-2	cis-1,2-Dichloroethylene	ND	62	
67-66-3	Chloroform	ND	62	
74-97-5	Bromochloromethane	ND	62	
109-99-9	Tetrahydrofuran	ND	62	
71-55-6	1,1,1-Trichloroethane	ND	62	
107-06-2	1,2-Dichloroethane	ND	62	
56-23-5	Carbon tetrachloride	ND	62	
71-43-2	Benzene	ND	62	
10061-01-5	c-1,3-dichloropropene	ND	62	
108-88-3	Toluene	ND	62	
10061-02-6	t-1,3-Dichloropropene	ND	62	
79-00-5	1,1,2-Trichloroethane	ND	62	
124-48-1	Dibromochloromethane	ND	62	
108-90-7	Chlorobenzene	ND	62	
563-58-6	1,1-Dichloropropene	ND	62	
79-01-6	Trichloroethylene	ND	62	
78-87-5	1,2-Dichloropropane	ND	62	
75-27-4	Bromodichloromethane	ND	62	
74-95-3	Dibromomethane	ND	62	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	62	
142-28-9	1,3-Dichloropropane	ND	62	
127-18-4	Tetrachloroethylene	420	62	
106-93-4	1,2-Dibromoethane	ND	62	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0028
Date of Collection: 12/09/2019
Date of Preparation: 12/18/2019
Date of Analysis: 12/18/2019
Dry Weight Prepared: 9.340 grams
Wet Weight Prepared: 10.861 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84821
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 86%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	62	
630-20-6	1,1,1,2-Tetrachloroethane	ND	62	
100-41-4	Ethylbenzene	ND	62	
108-38-3/106-42-3	M/P Xylene	ND	120	
95-47-6	Ortho Xylene	ND	62	
100-42-5	Styrene	ND	62	
75-25-2	Bromoform	ND	62	
79-34-5	1,1,2,2-Tetrachloroethane	ND	62	
98-82-8	Isopropylbenzene	ND	62	
108-86-1	Bromobenzene	ND	62	
96-18-4	1,2,3-Trichloropropane	ND	62	
103-65-1	N-Propylbenzene	ND	62	
95-49-8	2-Chlorotoluene	ND	62	
106-43-4	4-Chlorotoluene	ND	62	
98-06-6	Tert-Butylbenzene	ND	62	
108-67-8	1,3,5-Trimethylbenzene	ND	62	
95-63-6	1,2,4-Trimethylbenzene	ND	62	
135-98-8	Sec-Butylbenzene	ND	62	
541-73-1	1,3-Dichlorobenzene	ND	62	
99-87-6	Para-Isopropyltoluene	ND	62	
106-46-7	1,4-Dichlorobenzene	ND	62	
95-50-1	1,2-Dichlorobenzene	ND	62	
104-51-8	N-Butylbenzene	ND	62	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	62	
120-82-1	1,2,4-Trichlorobenzene	ND	62	
87-68-3	Hexachlorobutadiene	ND	62	
91-20-3	Naphthalene	ND	62	
87-61-6	1,2,3-Trichlorobenzene	ND	62	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	98	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	95	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0029
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 10.117 grams
Wet Weight Prepared: 12.189 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84822
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	60	
75-01-4	Vinyl Chloride	ND	60	
74-83-9	Bromomethane	ND	60	
75-00-3	Chloroethane	ND	60	
75-69-4	Trichlorofluoromethane	ND	60	
60-29-7	Ethyl Ether	ND	60	
67-64-1	2-Propanone (acetone)	ND	300	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	60	
75-35-4	1,1-Dichloroethylene	ND	60	
75-15-0	Carbon Disulfide	ND	60	
75-71-8	Dichlorodifluoromethane	ND	60	
75-09-2	Methylene Chloride	ND	60	
107-13-1	Acrylonitrile	ND	60	
1634-04-4	Methyl-t-Butyl Ether	ND	60	
156-60-5	Trans-1,2-Dichloroethylene	ND	60	
75-34-3	1,1-dichloroethane	ND	60	
108-05-4	Vinyl Acetate	ND	60	
78-93-3	2-Butanone (MEK)	ND	60	
594-20-7	2,2-Dichloropropane	ND	60	
156-59-2	cis-1,2-Dichloroethylene	ND	60	
67-66-3	Chloroform	ND	60	
74-97-5	Bromochloromethane	ND	60	
109-99-9	Tetrahydrofuran	ND	60	
71-55-6	1,1,1-Trichloroethane	ND	60	
107-06-2	1,2-Dichloroethane	ND	60	
56-23-5	Carbon tetrachloride	ND	60	
71-43-2	Benzene	ND	60	
10061-01-5	c-1,3-dichloropropene	ND	60	
108-88-3	Toluene	ND	60	
10061-02-6	t-1,3-Dichloropropene	ND	60	
79-00-5	1,1,2-Trichloroethane	ND	60	
124-48-1	Dibromochloromethane	ND	60	
108-90-7	Chlorobenzene	ND	60	
563-58-6	1,1-Dichloropropene	ND	60	
79-01-6	Trichloroethylene	ND	60	
78-87-5	1,2-Dichloropropane	ND	60	
75-27-4	Bromodichloromethane	ND	60	
74-95-3	Dibromomethane	ND	60	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	60	
142-28-9	1,3-Dichloropropane	ND	60	
127-18-4	Tetrachloroethylene	660	60	
106-93-4	1,2-Dibromoethane	ND	60	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0029
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 10.117 grams
Wet Weight Prepared: 12.189 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84822
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 83%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	60	
630-20-6	1,1,1,2-Tetrachloroethane	ND	60	
100-41-4	Ethylbenzene	ND	60	
108-38-3/106-42-3	M/P Xylene	ND	120	
95-47-6	Ortho Xylene	ND	60	
100-42-5	Styrene	ND	60	
75-25-2	Bromoform	ND	60	
79-34-5	1,1,2,2-Tetrachloroethane	ND	60	
98-82-8	Isopropylbenzene	ND	60	
108-86-1	Bromobenzene	ND	60	
96-18-4	1,2,3-Trichloropropane	ND	60	
103-65-1	N-Propylbenzene	ND	60	
95-49-8	2-Chlorotoluene	ND	60	
106-43-4	4-Chlorotoluene	ND	60	
98-06-6	Tert-Butylbenzene	ND	60	
108-67-8	1,3,5-Trimethylbenzene	ND	60	
95-63-6	1,2,4-Trimethylbenzene	ND	60	
135-98-8	Sec-Butylbenzene	ND	60	
541-73-1	1,3-Dichlorobenzene	ND	60	
99-87-6	Para-Isopropyltoluene	ND	60	
106-46-7	1,4-Dichlorobenzene	ND	60	
95-50-1	1,2-Dichlorobenzene	ND	60	
104-51-8	N-Butylbenzene	ND	60	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	60	
120-82-1	1,2,4-Trichlorobenzene	ND	60	
87-68-3	Hexachlorobutadiene	ND	60	
91-20-3	Naphthalene	ND	60	
87-61-6	1,2,3-Trichlorobenzene	ND	60	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/19/2019	Amount Prepared:	5 mL
Date of Analysis:	12/19/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	12/19/2019	Amount Prepared:	5 mL
Date of Analysis:	12/19/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	1.6	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Comments: Method Blank for AB84822, AB84823, AB84824, AB84825, AB84826, AB84827, AB84828, AB84829, AB84830, AB84831, AB84832, AB84815 DUP, AB84815 MS, and AB84815 MSD.

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0030
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 11.762 grams
Wet Weight Prepared: 13.838 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84823
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	51	
75-01-4	Vinyl Chloride	ND	51	
74-83-9	Bromomethane	ND	51	
75-00-3	Chloroethane	ND	51	
75-69-4	Trichlorofluoromethane	ND	51	
60-29-7	Ethyl Ether	ND	51	
67-64-1	2-Propanone (acetone)	ND	260	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	51	
75-35-4	1,1-Dichloroethylene	ND	51	
75-15-0	Carbon Disulfide	ND	51	
75-71-8	Dichlorodifluoromethane	ND	51	
75-09-2	Methylene Chloride	ND	51	
107-13-1	Acrylonitrile	ND	51	
1634-04-4	Methyl-t-Butyl Ether	ND	51	
156-60-5	Trans-1,2-Dichloroethylene	ND	51	
75-34-3	1,1-dichloroethane	ND	51	
108-05-4	Vinyl Acetate	ND	51	
78-93-3	2-Butanone (MEK)	ND	51	
594-20-7	2,2-Dichloropropane	ND	51	
156-59-2	cis-1,2-Dichloroethylene	ND	51	
67-66-3	Chloroform	ND	51	
74-97-5	Bromochloromethane	ND	51	
109-99-9	Tetrahydrofuran	ND	51	
71-55-6	1,1,1-Trichloroethane	ND	51	
107-06-2	1,2-Dichloroethane	ND	51	
56-23-5	Carbon tetrachloride	ND	51	
71-43-2	Benzene	ND	51	
10061-01-5	c-1,3-dichloropropene	ND	51	
108-88-3	Toluene	ND	51	
10061-02-6	t-1,3-Dichloropropene	ND	51	
79-00-5	1,1,2-Trichloroethane	ND	51	
124-48-1	Dibromochloromethane	ND	51	
108-90-7	Chlorobenzene	ND	51	
563-58-6	1,1-Dichloropropene	ND	51	
79-01-6	Trichloroethylene	ND	51	
78-87-5	1,2-Dichloropropane	ND	51	
75-27-4	Bromodichloromethane	ND	51	
74-95-3	Dibromomethane	ND	51	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	51	
142-28-9	1,3-Dichloropropane	ND	51	
127-18-4	Tetrachloroethylene	570	51	
106-93-4	1,2-Dibromoethane	ND	51	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0030
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 11.762 grams
Wet Weight Prepared: 13.838 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84823
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	51	
630-20-6	1,1,1,2-Tetrachloroethane	ND	51	
100-41-4	Ethylbenzene	ND	51	
108-38-3/106-42-3	M/P Xylene	ND	100	
95-47-6	Ortho Xylene	ND	51	
100-42-5	Styrene	ND	51	
75-25-2	Bromoform	ND	51	
79-34-5	1,1,2,2-Tetrachloroethane	ND	51	
98-82-8	Isopropylbenzene	ND	51	
108-86-1	Bromobenzene	ND	51	
96-18-4	1,2,3-Trichloropropane	ND	51	
103-65-1	N-Propylbenzene	ND	51	
95-49-8	2-Chlorotoluene	ND	51	
106-43-4	4-Chlorotoluene	ND	51	
98-06-6	Tert-Butylbenzene	ND	51	
108-67-8	1,3,5-Trimethylbenzene	ND	51	
95-63-6	1,2,4-Trimethylbenzene	ND	51	
135-98-8	Sec-Butylbenzene	ND	51	
541-73-1	1,3-Dichlorobenzene	ND	51	
99-87-6	Para-Isopropyltoluene	ND	51	
106-46-7	1,4-Dichlorobenzene	ND	51	
95-50-1	1,2-Dichlorobenzene	ND	51	
104-51-8	N-Butylbenzene	ND	51	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	51	
120-82-1	1,2,4-Trichlorobenzene	ND	51	
87-68-3	Hexachlorobutadiene	ND	51	
91-20-3	Naphthalene	ND	51	
87-61-6	1,2,3-Trichlorobenzene	ND	51	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	85 - 131
Toluene-D8	95	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0031
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 10.022 grams
Wet Weight Prepared: 11.790 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84824
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	59	
75-01-4	Vinyl Chloride	ND	59	
74-83-9	Bromomethane	ND	59	
75-00-3	Chloroethane	ND	59	
75-69-4	Trichlorofluoromethane	ND	59	
60-29-7	Ethyl Ether	ND	59	
67-64-1	2-Propanone (acetone)	ND	300	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	59	
75-35-4	1,1-Dichloroethylene	ND	59	
75-15-0	Carbon Disulfide	ND	59	
75-71-8	Dichlorodifluoromethane	ND	59	
75-09-2	Methylene Chloride	ND	59	
107-13-1	Acrylonitrile	ND	59	
1634-04-4	Methyl-t-Butyl Ether	ND	59	
156-60-5	Trans-1,2-Dichloroethylene	ND	59	
75-34-3	1,1-dichloroethane	ND	59	
108-05-4	Vinyl Acetate	ND	59	
78-93-3	2-Butanone (MEK)	ND	59	
594-20-7	2,2-Dichloropropane	ND	59	
156-59-2	cis-1,2-Dichloroethylene	ND	59	
67-66-3	Chloroform	ND	59	
74-97-5	Bromochloromethane	ND	59	
109-99-9	Tetrahydrofuran	ND	59	
71-55-6	1,1,1-Trichloroethane	ND	59	
107-06-2	1,2-Dichloroethane	ND	59	
56-23-5	Carbon tetrachloride	ND	59	
71-43-2	Benzene	ND	59	
10061-01-5	c-1,3-dichloropropene	ND	59	
108-88-3	Toluene	ND	59	
10061-02-6	t-1,3-Dichloropropene	ND	59	
79-00-5	1,1,2-Trichloroethane	ND	59	
124-48-1	Dibromochloromethane	ND	59	
108-90-7	Chlorobenzene	ND	59	
563-58-6	1,1-Dichloropropene	ND	59	
79-01-6	Trichloroethylene	ND	59	
78-87-5	1,2-Dichloropropane	ND	59	
75-27-4	Bromodichloromethane	ND	59	
74-95-3	Dibromomethane	ND	59	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	59	
142-28-9	1,3-Dichloropropane	ND	59	
127-18-4	Tetrachloroethylene	64	59	
106-93-4	1,2-Dibromoethane	ND	59	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0031
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 10.022 grams
Wet Weight Prepared: 11.790 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84824
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	59	
630-20-6	1,1,1,2-Tetrachloroethane	ND	59	
100-41-4	Ethylbenzene	ND	59	
108-38-3/106-42-3	M/P Xylene	ND	120	
95-47-6	Ortho Xylene	ND	59	
100-42-5	Styrene	ND	59	
75-25-2	Bromoform	ND	59	
79-34-5	1,1,2,2-Tetrachloroethane	ND	59	
98-82-8	Isopropylbenzene	ND	59	
108-86-1	Bromobenzene	ND	59	
96-18-4	1,2,3-Trichloropropane	ND	59	
103-65-1	N-Propylbenzene	ND	59	
95-49-8	2-Chlorotoluene	ND	59	
106-43-4	4-Chlorotoluene	ND	59	
98-06-6	Tert-Butylbenzene	ND	59	
108-67-8	1,3,5-Trimethylbenzene	ND	59	
95-63-6	1,2,4-Trimethylbenzene	ND	59	
135-98-8	Sec-Butylbenzene	ND	59	
541-73-1	1,3-Dichlorobenzene	ND	59	
99-87-6	Para-Isopropyltoluene	ND	59	
106-46-7	1,4-Dichlorobenzene	ND	59	
95-50-1	1,2-Dichlorobenzene	ND	59	
104-51-8	N-Butylbenzene	ND	59	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	59	
120-82-1	1,2,4-Trichlorobenzene	ND	59	
87-68-3	Hexachlorobutadiene	ND	59	
91-20-3	Naphthalene	ND	59	
87-61-6	1,2,3-Trichlorobenzene	ND	59	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0032
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 9.404 grams
Wet Weight Prepared: 10.935 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84825
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 86%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	61	
75-01-4	Vinyl Chloride	ND	61	
74-83-9	Bromomethane	ND	61	
75-00-3	Chloroethane	ND	61	
75-69-4	Trichlorofluoromethane	ND	61	
60-29-7	Ethyl Ether	ND	61	
67-64-1	2-Propanone (acetone)	ND	310	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	61	
75-35-4	1,1-Dichloroethylene	ND	61	
75-15-0	Carbon Disulfide	ND	61	
75-71-8	Dichlorodifluoromethane	ND	61	
75-09-2	Methylene Chloride	ND	61	
107-13-1	Acrylonitrile	ND	61	
1634-04-4	Methyl-t-Butyl Ether	ND	61	
156-60-5	Trans-1,2-Dichloroethylene	ND	61	
75-34-3	1,1-dichloroethane	ND	61	
108-05-4	Vinyl Acetate	ND	61	
78-93-3	2-Butanone (MEK)	ND	61	
594-20-7	2,2-Dichloropropane	ND	61	
156-59-2	cis-1,2-Dichloroethylene	ND	61	
67-66-3	Chloroform	ND	61	
74-97-5	Bromochloromethane	ND	61	
109-99-9	Tetrahydrofuran	ND	61	
71-55-6	1,1,1-Trichloroethane	ND	61	
107-06-2	1,2-Dichloroethane	ND	61	
56-23-5	Carbon tetrachloride	ND	61	
71-43-2	Benzene	ND	61	
10061-01-5	c-1,3-dichloropropene	ND	61	
108-88-3	Toluene	ND	61	
10061-02-6	t-1,3-Dichloropropene	ND	61	
79-00-5	1,1,2-Trichloroethane	ND	61	
124-48-1	Dibromochloromethane	ND	61	
108-90-7	Chlorobenzene	ND	61	
563-58-6	1,1-Dichloropropene	ND	61	
79-01-6	Trichloroethylene	ND	61	
78-87-5	1,2-Dichloropropane	ND	61	
75-27-4	Bromodichloromethane	ND	61	
74-95-3	Dibromomethane	ND	61	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	61	
142-28-9	1,3-Dichloropropane	ND	61	
127-18-4	Tetrachloroethylene	ND	61	
106-93-4	1,2-Dibromoethane	ND	61	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0032
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 9.404 grams
Wet Weight Prepared: 10.935 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84825
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 86%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	61	
630-20-6	1,1,1,2-Tetrachloroethane	ND	61	
100-41-4	Ethylbenzene	ND	61	
108-38-3/106-42-3	M/P Xylene	ND	120	
95-47-6	Ortho Xylene	ND	61	
100-42-5	Styrene	ND	61	
75-25-2	Bromoform	ND	61	
79-34-5	1,1,2,2-Tetrachloroethane	ND	61	
98-82-8	Isopropylbenzene	ND	61	
108-86-1	Bromobenzene	ND	61	
96-18-4	1,2,3-Trichloropropane	ND	61	
103-65-1	N-Propylbenzene	ND	61	
95-49-8	2-Chlorotoluene	ND	61	
106-43-4	4-Chlorotoluene	ND	61	
98-06-6	Tert-Butylbenzene	ND	61	
108-67-8	1,3,5-Trimethylbenzene	ND	61	
95-63-6	1,2,4-Trimethylbenzene	ND	61	
135-98-8	Sec-Butylbenzene	ND	61	
541-73-1	1,3-Dichlorobenzene	ND	61	
99-87-6	Para-Isopropyltoluene	ND	61	
106-46-7	1,4-Dichlorobenzene	ND	61	
95-50-1	1,2-Dichlorobenzene	ND	61	
104-51-8	N-Butylbenzene	ND	61	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	61	
120-82-1	1,2,4-Trichlorobenzene	ND	61	
87-68-3	Hexachlorobutadiene	ND	61	
91-20-3	Naphthalene	ND	61	
87-61-6	1,2,3-Trichlorobenzene	ND	61	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0033
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 10.052 grams
Wet Weight Prepared: 11.294 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84826
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 89%
Extract Dilution: 100
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	110	
75-01-4	Vinyl Chloride	ND	110	
74-83-9	Bromomethane	ND	110	
75-00-3	Chloroethane	ND	110	
75-69-4	Trichlorofluoromethane	ND	110	
60-29-7	Ethyl Ether	ND	110	
67-64-1	2-Propanone (acetone)	ND	550	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	110	
75-35-4	1,1-Dichloroethylene	ND	110	
75-15-0	Carbon Disulfide	ND	110	
75-71-8	Dichlorodifluoromethane	ND	110	
75-09-2	Methylene Chloride	ND	110	
107-13-1	Acrylonitrile	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	110	
156-60-5	Trans-1,2-Dichloroethylene	ND	110	
75-34-3	1,1-dichloroethane	ND	110	
108-05-4	Vinyl Acetate	ND	110	
78-93-3	2-Butanone (MEK)	ND	110	
594-20-7	2,2-Dichloropropane	ND	110	
156-59-2	cis-1,2-Dichloroethylene	ND	110	
67-66-3	Chloroform	ND	110	
74-97-5	Bromochloromethane	ND	110	
109-99-9	Tetrahydrofuran	ND	110	
71-55-6	1,1,1-Trichloroethane	ND	110	
107-06-2	1,2-Dichloroethane	ND	110	
56-23-5	Carbon tetrachloride	ND	110	
71-43-2	Benzene	ND	110	
10061-01-5	c-1,3-dichloropropene	ND	110	
108-88-3	Toluene	ND	110	
10061-02-6	t-1,3-Dichloropropene	ND	110	
79-00-5	1,1,2-Trichloroethane	ND	110	
124-48-1	Dibromochloromethane	ND	110	
108-90-7	Chlorobenzene	ND	110	
563-58-6	1,1-Dichloropropene	ND	110	
79-01-6	Trichloroethylene	ND	110	
78-87-5	1,2-Dichloropropane	ND	110	
75-27-4	Bromodichloromethane	ND	110	
74-95-3	Dibromomethane	ND	110	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	110	
142-28-9	1,3-Dichloropropane	ND	110	
127-18-4	Tetrachloroethylene	1200	110	
106-93-4	1,2-Dibromoethane	ND	110	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0033
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 10.052 grams
Wet Weight Prepared: 11.294 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84826
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 89%
Extract Dilution: 100
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	110	
630-20-6	1,1,1,2-Tetrachloroethane	ND	110	
100-41-4	Ethylbenzene	ND	110	
108-38-3/106-42-3	M/P Xylene	ND	220	
95-47-6	Ortho Xylene	ND	110	
100-42-5	Styrene	ND	110	
75-25-2	Bromoform	ND	110	
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	
98-82-8	Isopropylbenzene	ND	110	
108-86-1	Bromobenzene	ND	110	
96-18-4	1,2,3-Trichloropropane	ND	110	
103-65-1	N-Propylbenzene	ND	110	
95-49-8	2-Chlorotoluene	ND	110	
106-43-4	4-Chlorotoluene	ND	110	
98-06-6	Tert-Butylbenzene	ND	110	
108-67-8	1,3,5-Trimethylbenzene	ND	110	
95-63-6	1,2,4-Trimethylbenzene	ND	110	
135-98-8	Sec-Butylbenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-87-6	Para-Isopropyltoluene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
104-51-8	N-Butylbenzene	ND	110	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
91-20-3	Naphthalene	ND	110	
87-61-6	1,2,3-Trichlorobenzene	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	103	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0034
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 7.702 grams
Wet Weight Prepared: 8.956 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84827
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 86%
Extract Dilution: 200
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	290	
75-01-4	Vinyl Chloride	ND	290	
74-83-9	Bromomethane	ND	290	
75-00-3	Chloroethane	ND	290	
75-69-4	Trichlorofluoromethane	ND	290	
60-29-7	Ethyl Ether	ND	290	
67-64-1	2-Propanone (acetone)	ND	1500	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	290	
75-35-4	1,1-Dichloroethylene	ND	290	
75-15-0	Carbon Disulfide	ND	290	
75-71-8	Dichlorodifluoromethane	ND	290	
75-09-2	Methylene Chloride	ND	290	
107-13-1	Acrylonitrile	ND	290	
1634-04-4	Methyl-t-Butyl Ether	ND	290	
156-60-5	Trans-1,2-Dichloroethylene	ND	290	
75-34-3	1,1-dichloroethane	ND	290	
108-05-4	Vinyl Acetate	ND	290	
78-93-3	2-Butanone (MEK)	ND	290	
594-20-7	2,2-Dichloropropane	ND	290	
156-59-2	cis-1,2-Dichloroethylene	ND	290	
67-66-3	Chloroform	ND	290	
74-97-5	Bromochloromethane	ND	290	
109-99-9	Tetrahydrofuran	ND	290	
71-55-6	1,1,1-Trichloroethane	ND	290	
107-06-2	1,2-Dichloroethane	ND	290	
56-23-5	Carbon tetrachloride	ND	290	
71-43-2	Benzene	ND	290	
10061-01-5	c-1,3-dichloropropene	ND	290	
108-88-3	Toluene	ND	290	
10061-02-6	t-1,3-Dichloropropene	ND	290	
79-00-5	1,1,2-Trichloroethane	ND	290	
124-48-1	Dibromochloromethane	ND	290	
108-90-7	Chlorobenzene	ND	290	
563-58-6	1,1-Dichloropropene	ND	290	
79-01-6	Trichloroethylene	560	290	
78-87-5	1,2-Dichloropropane	ND	290	
75-27-4	Bromodichloromethane	ND	290	
74-95-3	Dibromomethane	ND	290	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	290	
142-28-9	1,3-Dichloropropane	ND	290	
127-18-4	Tetrachloroethylene	14000	290	
106-93-4	1,2-Dibromoethane	ND	290	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0034
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 7.702 grams
Wet Weight Prepared: 8.956 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84827
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 86%
Extract Dilution: 200
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	290	
630-20-6	1,1,1,2-Tetrachloroethane	ND	290	
100-41-4	Ethylbenzene	ND	290	
108-38-3/106-42-3	M/P Xylene	ND	580	
95-47-6	Ortho Xylene	ND	290	
100-42-5	Styrene	ND	290	
75-25-2	Bromoform	ND	290	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	
98-82-8	Isopropylbenzene	ND	290	
108-86-1	Bromobenzene	ND	290	
96-18-4	1,2,3-Trichloropropane	ND	290	
103-65-1	N-Propylbenzene	ND	290	
95-49-8	2-Chlorotoluene	ND	290	
106-43-4	4-Chlorotoluene	ND	290	
98-06-6	Tert-Butylbenzene	ND	290	
108-67-8	1,3,5-Trimethylbenzene	ND	290	
95-63-6	1,2,4-Trimethylbenzene	ND	290	
135-98-8	Sec-Butylbenzene	ND	290	
541-73-1	1,3-Dichlorobenzene	ND	290	
99-87-6	Para-Isopropyltoluene	ND	290	
106-46-7	1,4-Dichlorobenzene	ND	290	
95-50-1	1,2-Dichlorobenzene	ND	290	
104-51-8	N-Butylbenzene	ND	290	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	290	
120-82-1	1,2,4-Trichlorobenzene	ND	290	
87-68-3	Hexachlorobutadiene	ND	290	
91-20-3	Naphthalene	ND	290	
87-61-6	1,2,3-Trichlorobenzene	ND	290	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0035
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 9.090 grams
Wet Weight Prepared: 10.694 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84828
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 100
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	130	
75-01-4	Vinyl Chloride	ND	130	
74-83-9	Bromomethane	ND	130	
75-00-3	Chloroethane	ND	130	
75-69-4	Trichlorofluoromethane	ND	130	
60-29-7	Ethyl Ether	ND	130	
67-64-1	2-Propanone (acetone)	ND	650	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	130	
75-35-4	1,1-Dichloroethylene	ND	130	
75-15-0	Carbon Disulfide	ND	130	
75-71-8	Dichlorodifluoromethane	ND	130	
75-09-2	Methylene Chloride	ND	130	
107-13-1	Acrylonitrile	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	130	
156-60-5	Trans-1,2-Dichloroethylene	ND	130	
75-34-3	1,1-dichloroethane	ND	130	
108-05-4	Vinyl Acetate	ND	130	
78-93-3	2-Butanone (MEK)	ND	130	
594-20-7	2,2-Dichloropropane	ND	130	
156-59-2	cis-1,2-Dichloroethylene	ND	130	
67-66-3	Chloroform	ND	130	
74-97-5	Bromochloromethane	ND	130	
109-99-9	Tetrahydrofuran	ND	130	
71-55-6	1,1,1-Trichloroethane	ND	130	
107-06-2	1,2-Dichloroethane	ND	130	
56-23-5	Carbon tetrachloride	ND	130	
71-43-2	Benzene	ND	130	
10061-01-5	c-1,3-dichloropropene	ND	130	
108-88-3	Toluene	ND	130	
10061-02-6	t-1,3-Dichloropropene	ND	130	
79-00-5	1,1,2-Trichloroethane	ND	130	
124-48-1	Dibromochloromethane	ND	130	
108-90-7	Chlorobenzene	ND	130	
563-58-6	1,1-Dichloropropene	ND	130	
79-01-6	Trichloroethylene	140	130	
78-87-5	1,2-Dichloropropane	ND	130	
75-27-4	Bromodichloromethane	ND	130	
74-95-3	Dibromomethane	ND	130	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	130	
142-28-9	1,3-Dichloropropane	ND	130	
127-18-4	Tetrachloroethylene	2500	130	
106-93-4	1,2-Dibromoethane	ND	130	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0035
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 9.090 grams
Wet Weight Prepared: 10.694 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84828
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 85%
Extract Dilution: 100
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	130	
630-20-6	1,1,1,2-Tetrachloroethane	ND	130	
100-41-4	Ethylbenzene	ND	130	
108-38-3/106-42-3	M/P Xylene	ND	260	
95-47-6	Ortho Xylene	ND	130	
100-42-5	Styrene	ND	130	
75-25-2	Bromoform	ND	130	
79-34-5	1,1,2,2-Tetrachloroethane	ND	130	
98-82-8	Isopropylbenzene	ND	130	
108-86-1	Bromobenzene	ND	130	
96-18-4	1,2,3-Trichloropropane	ND	130	
103-65-1	N-Propylbenzene	ND	130	
95-49-8	2-Chlorotoluene	ND	130	
106-43-4	4-Chlorotoluene	ND	130	
98-06-6	Tert-Butylbenzene	ND	130	
108-67-8	1,3,5-Trimethylbenzene	ND	130	
95-63-6	1,2,4-Trimethylbenzene	ND	130	
135-98-8	Sec-Butylbenzene	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	130	
99-87-6	Para-Isopropyltoluene	ND	130	
106-46-7	1,4-Dichlorobenzene	ND	130	
95-50-1	1,2-Dichlorobenzene	ND	130	
104-51-8	N-Butylbenzene	ND	130	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	130	
87-68-3	Hexachlorobutadiene	ND	130	
91-20-3	Naphthalene	ND	130	
87-61-6	1,2,3-Trichlorobenzene	ND	130	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	104	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	94	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0036
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 6.623 grams
Wet Weight Prepared: 9.598 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84829
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 69%
Extract Dilution: 500
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	980	
75-01-4	Vinyl Chloride	ND	980	
74-83-9	Bromomethane	ND	980	
75-00-3	Chloroethane	ND	980	
75-69-4	Trichlorofluoromethane	ND	980	
60-29-7	Ethyl Ether	ND	980	
67-64-1	2-Propanone (acetone)	ND	4900	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	980	
75-35-4	1,1-Dichloroethylene	ND	980	
75-15-0	Carbon Disulfide	ND	980	
75-71-8	Dichlorodifluoromethane	ND	980	
75-09-2	Methylene Chloride	ND	980	
107-13-1	Acrylonitrile	ND	980	
1634-04-4	Methyl-t-Butyl Ether	ND	980	
156-60-5	Trans-1,2-Dichloroethylene	ND	980	
75-34-3	1,1-dichloroethane	ND	980	
108-05-4	Vinyl Acetate	ND	980	
78-93-3	2-Butanone (MEK)	ND	980	
594-20-7	2,2-Dichloropropane	ND	980	
156-59-2	cis-1,2-Dichloroethylene	ND	980	
67-66-3	Chloroform	ND	980	
74-97-5	Bromochloromethane	ND	980	
109-99-9	Tetrahydrofuran	ND	980	
71-55-6	1,1,1-Trichloroethane	ND	980	
107-06-2	1,2-Dichloroethane	ND	980	
56-23-5	Carbon tetrachloride	ND	980	
71-43-2	Benzene	ND	980	
10061-01-5	c-1,3-dichloropropene	ND	980	
108-88-3	Toluene	ND	980	
10061-02-6	t-1,3-Dichloropropene	ND	980	
79-00-5	1,1,2-Trichloroethane	ND	980	
124-48-1	Dibromochloromethane	ND	980	
108-90-7	Chlorobenzene	ND	980	
563-58-6	1,1-Dichloropropene	ND	980	
79-01-6	Trichloroethylene	1100	980	
78-87-5	1,2-Dichloropropane	ND	980	
75-27-4	Bromodichloromethane	ND	980	
74-95-3	Dibromomethane	ND	980	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	980	
142-28-9	1,3-Dichloropropane	ND	980	
127-18-4	Tetrachloroethylene	30000	980	
106-93-4	1,2-Dibromoethane	ND	980	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0036
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 6.623 grams
Wet Weight Prepared: 9.598 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84829
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 69%
Extract Dilution: 500
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	980	
630-20-6	1,1,1,2-Tetrachloroethane	ND	980	
100-41-4	Ethylbenzene	ND	980	
108-38-3/106-42-3	M/P Xylene	ND	2000	
95-47-6	Ortho Xylene	ND	980	
100-42-5	Styrene	ND	980	
75-25-2	Bromoform	ND	980	
79-34-5	1,1,2,2-Tetrachloroethane	ND	980	
98-82-8	Isopropylbenzene	ND	980	
108-86-1	Bromobenzene	ND	980	
96-18-4	1,2,3-Trichloropropane	ND	980	
103-65-1	N-Propylbenzene	ND	980	
95-49-8	2-Chlorotoluene	ND	980	
106-43-4	4-Chlorotoluene	ND	980	
98-06-6	Tert-Butylbenzene	ND	980	
108-67-8	1,3,5-Trimethylbenzene	ND	980	
95-63-6	1,2,4-Trimethylbenzene	ND	980	
135-98-8	Sec-Butylbenzene	ND	980	
541-73-1	1,3-Dichlorobenzene	ND	980	
99-87-6	Para-Isopropyltoluene	ND	980	
106-46-7	1,4-Dichlorobenzene	ND	980	
95-50-1	1,2-Dichlorobenzene	ND	980	
104-51-8	N-Butylbenzene	ND	980	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	980	
120-82-1	1,2,4-Trichlorobenzene	ND	980	
87-68-3	Hexachlorobutadiene	ND	980	
91-20-3	Naphthalene	ND	980	
87-61-6	1,2,3-Trichlorobenzene	ND	980	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	105	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	92	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0037
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 8.968 grams
Wet Weight Prepared: 11.352 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84830
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 79%
Extract Dilution: 100
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	140	
75-01-4	Vinyl Chloride	ND	140	
74-83-9	Bromomethane	ND	140	
75-00-3	Chloroethane	ND	140	
75-69-4	Trichlorofluoromethane	ND	140	
60-29-7	Ethyl Ether	ND	140	
67-64-1	2-Propanone (acetone)	ND	700	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	140	
75-35-4	1,1-Dichloroethylene	ND	140	
75-15-0	Carbon Disulfide	ND	140	
75-71-8	Dichlorodifluoromethane	ND	140	
75-09-2	Methylene Chloride	ND	140	
107-13-1	Acrylonitrile	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	140	
156-60-5	Trans-1,2-Dichloroethylene	ND	140	
75-34-3	1,1-dichloroethane	ND	140	
108-05-4	Vinyl Acetate	ND	140	
78-93-3	2-Butanone (MEK)	ND	140	
594-20-7	2,2-Dichloropropane	ND	140	
156-59-2	cis-1,2-Dichloroethylene	ND	140	
67-66-3	Chloroform	ND	140	
74-97-5	Bromochloromethane	ND	140	
109-99-9	Tetrahydrofuran	ND	140	
71-55-6	1,1,1-Trichloroethane	ND	140	
107-06-2	1,2-Dichloroethane	ND	140	
56-23-5	Carbon tetrachloride	ND	140	
71-43-2	Benzene	ND	140	
10061-01-5	c-1,3-dichloropropene	ND	140	
108-88-3	Toluene	ND	140	
10061-02-6	t-1,3-Dichloropropene	ND	140	
79-00-5	1,1,2-Trichloroethane	ND	140	
124-48-1	Dibromochloromethane	ND	140	
108-90-7	Chlorobenzene	ND	140	
563-58-6	1,1-Dichloropropene	ND	140	
79-01-6	Trichloroethylene	ND	140	
78-87-5	1,2-Dichloropropane	ND	140	
75-27-4	Bromodichloromethane	ND	140	
74-95-3	Dibromomethane	ND	140	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	140	
142-28-9	1,3-Dichloropropane	ND	140	
127-18-4	Tetrachloroethylene	1500	140	
106-93-4	1,2-Dibromoethane	ND	140	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0037
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 8.968 grams
Wet Weight Prepared: 11.352 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84830
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 79%
Extract Dilution: 100
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	140	
630-20-6	1,1,1,2-Tetrachloroethane	ND	140	
100-41-4	Ethylbenzene	ND	140	
108-38-3/106-42-3	M/P Xylene	ND	280	
95-47-6	Ortho Xylene	ND	140	
100-42-5	Styrene	ND	140	
75-25-2	Bromoform	ND	140	
79-34-5	1,1,2,2-Tetrachloroethane	ND	140	
98-82-8	Isopropylbenzene	ND	140	
108-86-1	Bromobenzene	ND	140	
96-18-4	1,2,3-Trichloropropane	ND	140	
103-65-1	N-Propylbenzene	ND	140	
95-49-8	2-Chlorotoluene	ND	140	
106-43-4	4-Chlorotoluene	ND	140	
98-06-6	Tert-Butylbenzene	ND	140	
108-67-8	1,3,5-Trimethylbenzene	ND	140	
95-63-6	1,2,4-Trimethylbenzene	ND	140	
135-98-8	Sec-Butylbenzene	ND	140	
541-73-1	1,3-Dichlorobenzene	ND	140	
99-87-6	Para-Isopropyltoluene	ND	140	
106-46-7	1,4-Dichlorobenzene	ND	140	
95-50-1	1,2-Dichlorobenzene	ND	140	
104-51-8	N-Butylbenzene	ND	140	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	140	
120-82-1	1,2,4-Trichlorobenzene	ND	140	
87-68-3	Hexachlorobutadiene	ND	140	
91-20-3	Naphthalene	ND	140	
87-61-6	1,2,3-Trichlorobenzene	ND	140	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	85 - 131
Toluene-D8	96	84 - 118
1,4-Bromofluorobenzene	93	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0038
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 10.143 grams
Wet Weight Prepared: 11.526 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84831
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 88%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	56	
75-01-4	Vinyl Chloride	ND	56	
74-83-9	Bromomethane	ND	56	
75-00-3	Chloroethane	ND	56	
75-69-4	Trichlorofluoromethane	ND	56	
60-29-7	Ethyl Ether	ND	56	
67-64-1	2-Propanone (acetone)	ND	280	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	56	
75-35-4	1,1-Dichloroethylene	ND	56	
75-15-0	Carbon Disulfide	ND	56	
75-71-8	Dichlorodifluoromethane	ND	56	
75-09-2	Methylene Chloride	ND	56	
107-13-1	Acrylonitrile	ND	56	
1634-04-4	Methyl-t-Butyl Ether	ND	56	
156-60-5	Trans-1,2-Dichloroethylene	ND	56	
75-34-3	1,1-dichloroethane	ND	56	
108-05-4	Vinyl Acetate	ND	56	
78-93-3	2-Butanone (MEK)	ND	56	
594-20-7	2,2-Dichloropropane	ND	56	
156-59-2	cis-1,2-Dichloroethylene	ND	56	
67-66-3	Chloroform	ND	56	
74-97-5	Bromochloromethane	ND	56	
109-99-9	Tetrahydrofuran	ND	56	
71-55-6	1,1,1-Trichloroethane	ND	56	
107-06-2	1,2-Dichloroethane	ND	56	
56-23-5	Carbon tetrachloride	ND	56	
71-43-2	Benzene	ND	56	
10061-01-5	c-1,3-dichloropropene	ND	56	
108-88-3	Toluene	ND	56	
10061-02-6	t-1,3-Dichloropropene	ND	56	
79-00-5	1,1,2-Trichloroethane	ND	56	
124-48-1	Dibromochloromethane	ND	56	
108-90-7	Chlorobenzene	ND	56	
563-58-6	1,1-Dichloropropene	ND	56	
79-01-6	Trichloroethylene	ND	56	
78-87-5	1,2-Dichloropropane	ND	56	
75-27-4	Bromodichloromethane	ND	56	
74-95-3	Dibromomethane	ND	56	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	56	
142-28-9	1,3-Dichloropropane	ND	56	
127-18-4	Tetrachloroethylene	320	56	
106-93-4	1,2-Dibromoethane	ND	56	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0038
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 10.143 grams
Wet Weight Prepared: 11.526 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84831
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 88%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	56	
630-20-6	1,1,1,2-Tetrachloroethane	ND	56	
100-41-4	Ethylbenzene	ND	56	
108-38-3/106-42-3	M/P Xylene	ND	110	
95-47-6	Ortho Xylene	ND	56	
100-42-5	Styrene	ND	56	
75-25-2	Bromoform	ND	56	
79-34-5	1,1,2,2-Tetrachloroethane	ND	56	
98-82-8	Isopropylbenzene	ND	56	
108-86-1	Bromobenzene	ND	56	
96-18-4	1,2,3-Trichloropropane	ND	56	
103-65-1	N-Propylbenzene	ND	56	
95-49-8	2-Chlorotoluene	ND	56	
106-43-4	4-Chlorotoluene	ND	56	
98-06-6	Tert-Butylbenzene	ND	56	
108-67-8	1,3,5-Trimethylbenzene	ND	56	
95-63-6	1,2,4-Trimethylbenzene	ND	56	
135-98-8	Sec-Butylbenzene	ND	56	
541-73-1	1,3-Dichlorobenzene	ND	56	
99-87-6	Para-Isopropyltoluene	ND	56	
106-46-7	1,4-Dichlorobenzene	ND	56	
95-50-1	1,2-Dichlorobenzene	ND	56	
104-51-8	N-Butylbenzene	ND	56	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	56	
120-82-1	1,2,4-Trichlorobenzene	ND	56	
87-68-3	Hexachlorobutadiene	ND	56	
91-20-3	Naphthalene	ND	56	
87-61-6	1,2,3-Trichlorobenzene	ND	56	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	85 - 131
Toluene-D8	95	84 - 118
1,4-Bromofluorobenzene	93	56 - 125

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0039
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 7.997 grams
Wet Weight Prepared: 9.087 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84832
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 88%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	69	
75-01-4	Vinyl Chloride	ND	69	
74-83-9	Bromomethane	ND	69	
75-00-3	Chloroethane	ND	69	
75-69-4	Trichlorofluoromethane	ND	69	
60-29-7	Ethyl Ether	ND	69	
67-64-1	2-Propanone (acetone)	ND	350	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	69	
75-35-4	1,1-Dichloroethylene	ND	69	
75-15-0	Carbon Disulfide	ND	69	
75-71-8	Dichlorodifluoromethane	ND	69	
75-09-2	Methylene Chloride	ND	69	
107-13-1	Acrylonitrile	ND	69	
1634-04-4	Methyl-t-Butyl Ether	ND	69	
156-60-5	Trans-1,2-Dichloroethylene	ND	69	
75-34-3	1,1-dichloroethane	ND	69	
108-05-4	Vinyl Acetate	ND	69	
78-93-3	2-Butanone (MEK)	ND	69	
594-20-7	2,2-Dichloropropane	ND	69	
156-59-2	cis-1,2-Dichloroethylene	73	69	
67-66-3	Chloroform	ND	69	
74-97-5	Bromochloromethane	ND	69	
109-99-9	Tetrahydrofuran	ND	69	
71-55-6	1,1,1-Trichloroethane	ND	69	
107-06-2	1,2-Dichloroethane	ND	69	
56-23-5	Carbon tetrachloride	ND	69	
71-43-2	Benzene	ND	69	
10061-01-5	c-1,3-dichloropropene	ND	69	
108-88-3	Toluene	ND	69	
10061-02-6	t-1,3-Dichloropropene	ND	69	
79-00-5	1,1,2-Trichloroethane	ND	69	
124-48-1	Dibromochloromethane	ND	69	
108-90-7	Chlorobenzene	ND	69	
563-58-6	1,1-Dichloropropene	ND	69	
79-01-6	Trichloroethylene	93	69	
78-87-5	1,2-Dichloropropane	ND	69	
75-27-4	Bromodichloromethane	ND	69	
74-95-3	Dibromomethane	ND	69	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	69	
142-28-9	1,3-Dichloropropane	ND	69	
127-18-4	Tetrachloroethylene	1100	69	
106-93-4	1,2-Dibromoethane	ND	69	

Ried Cleaners - Great Barrington, MA

VOAs in Soil High Level Method

Client Sample ID: 0346-0039
Date of Collection: 12/09/2019
Date of Preparation: 12/19/2019
Date of Analysis: 12/19/2019
Dry Weight Prepared: 7.997 grams
Wet Weight Prepared: 9.087 grams
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84832
Matrix: Soil
Amount Prepared: 5 mL
Percent Solids: 88%
Extract Dilution: 50
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
591-78-6	2-Hexanone	ND	69	
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	
100-41-4	Ethylbenzene	ND	69	
108-38-3/106-42-3	M/P Xylene	ND	140	
95-47-6	Ortho Xylene	ND	69	
100-42-5	Styrene	ND	69	
75-25-2	Bromoform	ND	69	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	
98-82-8	Isopropylbenzene	ND	69	
108-86-1	Bromobenzene	ND	69	
96-18-4	1,2,3-Trichloropropane	ND	69	
103-65-1	N-Propylbenzene	ND	69	
95-49-8	2-Chlorotoluene	ND	69	
106-43-4	4-Chlorotoluene	ND	69	
98-06-6	Tert-Butylbenzene	ND	69	
108-67-8	1,3,5-Trimethylbenzene	ND	69	
95-63-6	1,2,4-Trimethylbenzene	ND	69	
135-98-8	Sec-Butylbenzene	ND	69	
541-73-1	1,3-Dichlorobenzene	ND	69	
99-87-6	Para-Isopropyltoluene	ND	69	
106-46-7	1,4-Dichlorobenzene	ND	69	
95-50-1	1,2-Dichlorobenzene	ND	69	
104-51-8	N-Butylbenzene	ND	69	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	69	
120-82-1	1,2,4-Trichlorobenzene	ND	69	
87-68-3	Hexachlorobutadiene	ND	69	
91-20-3	Naphthalene	ND	69	
87-61-6	1,2,3-Trichlorobenzene	ND	69	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	85 - 131
Toluene-D8	97	84 - 118
1,4-Bromofluorobenzene	95	56 - 125

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE (MS) RECOVERY

Sample ID: AB84815

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1376	ND	1400	100	86 - 115
1,1,1-Trichloroethane	1376	ND	1300	94	80 - 127
1,1,2,2-Tetrachloroethane	1376	ND	1300	94	68 - 118
1,1,2-Trichloro-1,2,2-Trifluoroetha	1376	ND	1300	94	79 - 134
1,1,2-Trichloroethane	1376	ND	1300	94	81 - 116
1,1-Dichloroethylene	1376	ND	1200	87	82 - 124
1,1-Dichloropropene	1376	ND	1500	110	79 - 126
1,1-dichloroethane	1376	ND	1300	94	82 - 119
1,2,3-Trichlorobenzene	1376	ND	1400	100	52 - 134
1,2,3-Trichloropropane	1376	ND	1300	94	64 - 115
1,2,4-Trichlorobenzene	1376	ND	1400	100	55 - 131
1,2,4-Trimethylbenzene	1376	ND	1500	110	75 - 137
1,2-Dibromo-3-Chloropropane	1376	ND	1100	80	49 - 120
1,2-Dibromoethane	1376	ND	1400	100	75 - 116
1,2-Dichlorobenzene	1376	ND	1400	100	77 - 116
1,2-Dichloroethane	1376	ND	1300	94	83 - 118
1,2-Dichloropropane	1376	ND	1400	100	82 - 115
1,3,5-Trimethylbenzene	1376	ND	1500	110	73 - 132
1,3-Dichlorobenzene	1376	ND	1400	100	80 - 116
1,3-Dichloropropane	1376	ND	1400	100	77 - 118
1,4-Dichlorobenzene	1376	ND	1400	100	81 - 110
2,2-Dichloropropane	1376	ND	1200	87	77 - 136
2-Butanone (MEK)	1376	ND	670	49	19 - 152
2-Chlorotoluene	1376	ND	1400	100	78 - 120
2-Hexanone	1376	ND	1100	80	22 - 139
2-Propanone (acetone)	1376	ND	500	36	25 - 161
4-Chlorotoluene	1376	ND	1400	100	78 - 120
4-Methyl-2-Pentanone(MIBK)	1376	ND	1300	94	51 - 133
Acrylonitrile	1376	ND	1000	73	57 - 131
Benzene	1376	ND	1300	94	84 - 119
Bromobenzene	1376	ND	1400	100	77 - 115
Bromochloromethane	1376	ND	1300	94	86 - 115
Bromodichloromethane	1376	ND	1200	87	87 - 109
Bromoform	1376	ND	940	68	65 - 120
Bromomethane	1376	ND	930	68	31 - 161
Carbon Disulfide	1376	ND	890	65	71 - 126
Carbon tetrachloride	1376	ND	1300	94	78 - 131
Chlorobenzene	1376	ND	1300	94	79 - 117
Chloroethane	1376	ND	810	59	53 - 145
Chloroform	1376	ND	1300	94	83 - 122
Chloromethane	1376	ND	1200	87	58 - 151
Dibromochloromethane	1376	ND	1000	73	77 - 120
Dibromomethane	1376	ND	1400	100	81 - 114
Dichlorodifluoromethane	1376	ND	1400	100	59 - 131
Ethyl Ether	1376	ND	830	60	81 - 123
Ethylbenzene	1376	ND	1400	100	83 - 122
Hexachlorobutadiene	1376	ND	1400	100	58 - 138

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE (MS) RECOVERY

Sample ID: AB84815

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
Isopropylbenzene	1376	ND	1400	100	76 - 133
M/P Xylene	2752	ND	2900	110	88 - 122
Methyl-t-Butyl Ether	1376	ND	1500	110	77 - 128
Methylene Chloride	1376	ND	1200	87	79 - 134
N-Butylbenzene	1376	ND	1500	110	71 - 136
N-Propylbenzene	1376	ND	1400	100	77 - 125
Naphthalene	1376	ND	1400	100	48 - 118
Ortho Xylene	1376	ND	1400	100	84 - 130
Para-Isopropyltoluene	1376	ND	1500	110	73 - 138
Sec-Butylbenzene	1376	ND	1400	100	75 - 132
Styrene	1376	ND	1400	100	88 - 126
Tert-Butylbenzene	1376	ND	1400	100	73 - 136
Tetrachloroethylene	1376	491	2200	120	68 - 134
Tetrahydrofuran	1376	ND	950	69	49 - 134
Toluene	1376	ND	1300	94	82 - 125
Trans-1,2-Dichloroethylene	1376	ND	1200	87	84 - 117
Trichloroethylene	1376	ND	1400	100	80 - 118
Trichlorofluoromethane	1376	ND	1200	87	74 - 139
Vinyl Acetate	1376	ND	1100	80	66 - 130
Vinyl Chloride	1376	ND	740	54	63 - 120
c-1,3-dichloropropene	1376	ND	1300	94	79 - 126
cis-1,2-Dichloroethylene	1376	ND	1300	94	84 - 122
t-1,3-Dichloropropene	1376	ND	1400	100	78 - 127

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Sample ID:AB84815

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1376	1500	110	9.5	40
1,1,1-Trichloroethane	1376	1300	94	0.0	40
1,1,2,2-Tetrachloroethane	1376	1400	100	6.2	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1376	1300	94	0.0	40
1,1,2-Trichloroethane	1376	1400	100	6.2	40
1,1-Dichloroethylene	1376	1100	80	8.4	52
1,1-Dichloropropene	1376	1400	100	9.5	40
1,1-dichloroethane	1376	1300	94	0.0	40
1,2,3-Trichlorobenzene	1376	1400	100	0.0	40
1,2,3-Trichloropropane	1376	1400	100	6.2	40
1,2,4-Trichlorobenzene	1376	1400	100	0.0	40
1,2,4-Trimethylbenzene	1376	1500	110	0.0	40
1,2-Dibromo-3-Chloropropane	1376	1200	87	8.4	40
1,2-Dibromoethane	1376	1400	100	0.0	40
1,2-Dichlorobenzene	1376	1400	100	0.0	40
1,2-Dichloroethane	1376	1300	94	0.0	40
1,2-Dichloropropane	1376	1300	94	6.2	40
1,3,5-Trimethylbenzene	1376	1500	110	0.0	40
1,3-Dichlorobenzene	1376	1400	100	0.0	40
1,3-Dichloropropane	1376	1400	100	0.0	40
1,4-Dichlorobenzene	1376	1400	100	0.0	40
2,2-Dichloropropane	1376	1200	87	0.0	40
2-Butanone (MEK)	1376	890	65	28.1	40
2-Chlorotoluene	1376	1400	100	0.0	40
2-Hexanone	1376	1200	87	8.4	40
2-Propanone (acetone)	1376	640	47	26.5	40
4-Chlorotoluene	1376	1400	100	0.0	40
4-Methyl-2-Pentanone(MIBK)	1376	1400	100	6.2	40
Acrylonitrile	1376	1200	87	17.5	40
Benzene	1376	1300	94	0.0	24
Bromobenzene	1376	1400	100	0.0	40
Bromochloromethane	1376	1300	94	0.0	40
Bromodichloromethane	1376	1300	94	7.7	40
Bromoform	1376	1100	80	16.2	40
Bromomethane	1376	930	68	0.0	40
Carbon Disulfide	1376	920	67	3.0	40
Carbon tetrachloride	1376	1300	94	0.0	40
Chlorobenzene	1376	1300	94	0.0	34
Chloroethane	1376	930	68	14.2	40
Chloroform	1376	1300	94	0.0	40
Chloromethane	1376	1200	87	0.0	40
Dibromochloromethane	1376	1100	80	9.2	40
Dibromomethane	1376	1400	100	0.0	40
Dichlorodifluoromethane	1376	1400	100	0.0	40
Ethyl Ether	1376	920	67	11.0	40
Ethylbenzene	1376	1400	100	0.0	40
Hexachlorobutadiene	1376	1300	94	6.2	40
Isopropylbenzene	1376	1400	100	0.0	40

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Sample ID:AB84815

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
M/P Xylene	2752	2900	110	0.0	40
Methyl-t-Butyl Ether	1376	1800	130	16.7	40
Methylene Chloride	1376	1200	87	0.0	40
N-Butylbenzene	1376	1500	110	0.0	40
N-Propylbenzene	1376	1400	100	0.0	40
Naphthalene	1376	1400	100	0.0	40
Ortho Xylene	1376	1400	100	0.0	40
Para-Isopropyltoluene	1376	1500	110	0.0	40
Sec-Butylbenzene	1376	1400	100	0.0	40
Styrene	1376	1400	100	0.0	40
Tert-Butylbenzene	1376	1400	100	0.0	40
Tetrachloroethylene	1376	2100	120	0.0	40
Tetrahydrofuran	1376	1200	87	23.1	40
Toluene	1376	1300	94	0.0	33
Trans-1,2-Dichloroethylene	1376	1200	87	0.0	40
Trichloroethylene	1376	1300	94	6.2	27
Trichlorofluoromethane	1376	1300	94	7.7	40
Vinyl Acetate	1376	1200	87	8.4	40
Vinyl Chloride	1376	730	53	1.9	40
c-1,3-dichloropropene	1376	1300	94	0.0	40
cis-1,2-Dichloroethylene	1376	1200	87	7.7	40
t-1,3-Dichloropropene	1376	1500	110	9.5	40

Ried Cleaners - Great Barrington, MA

Laboratory Duplicate Results

Sample ID: AB84815

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	NC	40
1,1,1-Trichloroethane	ND	ND	NC	40
1,1,2,2-Tetrachloroethane	ND	ND	NC	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	ND	NC	40
1,1,2-Trichloroethane	ND	ND	NC	40
1,1-Dichloroethylene	ND	ND	NC	40
1,1-Dichloropropene	ND	ND	NC	40
1,1-dichloroethane	ND	ND	NC	40
1,2,3-Trichlorobenzene	ND	ND	NC	40
1,2,3-Trichloropropane	ND	ND	NC	40
1,2,4-Trichlorobenzene	ND	ND	NC	40
1,2,4-Trimethylbenzene	ND	ND	NC	40
1,2-Dibromo-3-Chloropropane	ND	ND	NC	40
1,2-Dibromoethane	ND	ND	NC	40
1,2-Dichlorobenzene	ND	ND	NC	40
1,2-Dichloroethane	ND	ND	NC	40
1,2-Dichloropropane	ND	ND	NC	40
1,3,5-Trimethylbenzene	ND	ND	NC	40
1,3-Dichlorobenzene	ND	ND	NC	40
1,3-Dichloropropane	ND	ND	NC	40
1,4-Dichlorobenzene	ND	ND	NC	40
2,2-Dichloropropane	ND	ND	NC	40
2-Butanone (MEK)	ND	ND	NC	40
2-Chlorotoluene	ND	ND	NC	40
2-Hexanone	ND	ND	NC	40
2-Propanone (acetone)	ND	ND	NC	40
4-Chlorotoluene	ND	ND	NC	40
4-Methyl-2-Pentanone(MIBK)	ND	ND	NC	40
Acrylonitrile	ND	ND	NC	40
Benzene	ND	ND	NC	40
Bromobenzene	ND	ND	NC	40
Bromochloromethane	ND	ND	NC	40
Bromodichloromethane	ND	ND	NC	40
Bromoform	ND	ND	NC	40
Bromomethane	ND	ND	NC	40
Carbon Disulfide	ND	ND	NC	40
Carbon tetrachloride	ND	ND	NC	40
Chlorobenzene	ND	ND	NC	40
Chloroethane	ND	ND	NC	40
Chloroform	ND	ND	NC	40
Chloromethane	ND	ND	NC	40
Dibromochloromethane	ND	ND	NC	40
Dibromomethane	ND	ND	NC	40
Dichlorodifluoromethane	ND	ND	NC	40
Ethyl Ether	ND	ND	NC	40
Ethylbenzene	ND	ND	NC	40
Hexachlorobutadiene	ND	ND	NC	40
Isopropylbenzene	ND	ND	NC	40
M/P Xylene	ND	ND	NC	40
Methyl-t-Butyl Ether	ND	ND	NC	40

Ried Cleaners - Great Barrington, MA

Laboratory Duplicate Results

Sample ID: AB84815

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
Methylene Chloride	ND	ND	NC	40
N-Butylbenzene	ND	ND	NC	40
N-Propylbenzene	ND	ND	NC	40
Naphthalene	ND	ND	NC	40
Ortho Xylene	ND	ND	NC	40
Para-Isopropyltoluene	ND	ND	NC	40
Sec-Butylbenzene	ND	ND	NC	40
Styrene	ND	ND	NC	40
Tert-Butylbenzene	ND	ND	NC	40
Tetrachloroethylene	491	434	12.4	40
Tetrahydrofuran	ND	ND	NC	40
Toluene	ND	ND	NC	40
Trans-1,2-Dichloroethylene	ND	ND	NC	40
Trichloroethylene	ND	ND	NC	40
Trichlorofluoromethane	ND	ND	NC	40
Vinyl Acetate	ND	ND	NC	40
Vinyl Chloride	ND	ND	NC	40
c-1,3-dichloropropene	ND	ND	NC	40
cis-1,2-Dichloroethylene	ND	ND	NC	40
t-1,3-Dichloropropene	ND	ND	NC	40

Ried Cleaners - Great Barrington, MA

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	21.0	104	82 - 121
1,1,1-Trichloroethane	20	19.0	97	74 - 132
1,1,2,2-Tetrachloroethane	20	20.0	99	72 - 117
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	18.0	92	63 - 143
1,1,2-Trichloroethane	20	19.0	94	77 - 119
1,1-Dichloroethylene	20	16.0	80	65 - 132
1,1-Dichloropropene	20	20.0	100	77 - 126
1,1-dichloroethane	20	18.0	90	76 - 123
1,2,3-Trichlorobenzene	20	20.0	101	65 - 122
1,2,3-Trichloropropane	20	20.0	98	64 - 118
1,2,4-Trichlorobenzene	20	20.0	99	67 - 120
1,2,4-Trimethylbenzene	20	21.0	103	78 - 129
1,2-Dibromo-3-Chloropropane	20	19.0	97	58 - 120
1,2-Dibromoethane	20	20.0	98	76 - 115
1,2-Dichlorobenzene	20	20.0	100	77 - 118
1,2-Dichloroethane	20	19.0	96	77 - 124
1,2-Dichloropropane	20	19.0	94	78 - 118
1,3,5-Trimethylbenzene	20	20.0	100	76 - 126
1,3-Dichlorobenzene	20	20.0	99	77 - 118
1,3-Dichloropropane	20	19.0	97	75 - 121
1,4-Dichlorobenzene	20	20.0	99	78 - 116
2,2-Dichloropropane	20	20.0	102	74 - 138
2-Butanone (MEK)	20	13.0	64	21 - 138
2-Chlorotoluene	20	20.0	100	74 - 121
2-Hexanone	20	16.0	82	30 - 132
2-Propanone (acetone)	20	10.0	51	37 - 168
4-Chlorotoluene	20	20.0	99	77 - 121
4-Methyl-2-Pentanone(MIBK)	20	19.0	95	54 - 131
Acrylonitrile	20	19.0	93	55 - 131
Benzene	20	18.0	88	76 - 121
Bromobenzene	20	20.0	99	77 - 116
Bromochloromethane	20	19.0	94	72 - 130
Bromodichloromethane	20	20.0	98	79 - 123
Bromoform	20	17.0	84	74 - 118
Bromomethane	20	20.0	101	55 - 155
Carbon Disulfide	20	16.0	79	64 - 134
Carbon tetrachloride	20	20.0	99	75 - 131
Chlorobenzene	20	19.0	93	74 - 123
Chloroethane	20	19.0	97	66 - 137
Chloroform	20	19.0	93	78 - 126
Chloromethane	20	17.0	83	50 - 162
Dibromochloromethane	20	17.0	85	79 - 122
Dibromomethane	20	19.0	97	75 - 121
Dichlorodifluoromethane	20	23.0	113	69 - 126
Ethyl Ether	20	17.0	86	73 - 120
Ethylbenzene	20	20.0	98	79 - 122
Hexachlorobutadiene	20	18.0	92	71 - 118
Isopropylbenzene	20	20.0	98	76 - 125
M/P Xylene	40	39.0	98	81 - 122
Methyl-t-Butyl Ether	20	21.0	103	73 - 120
Methylene Chloride	20	17.0	87	74 - 132
N-Butylbenzene	20	20.0	98	79 - 128
N-Propylbenzene	20	20.0	100	77 - 123

Ried Cleaners - Great Barrington, MA

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
Naphthalene	20	21.0	103	55 - 118
Ortho Xylene	20	19.0	96	79 - 126
Para-Isopropyltoluene	20	20.0	99	78 - 129
Sec-Butylbenzene	20	19.0	97	78 - 125
Styrene	20	20.0	99	84 - 125
Tert-Butylbenzene	20	20.0	98	79 - 124
Tetrachloroethylene	20	18.0	89	66 - 121
Tetrahydrofuran	20	17.0	87	51 - 130
Toluene	20	18.0	91	75 - 124
Trans-1,2-Dichloroethylene	20	18.0	88	67 - 127
Trichloroethylene	20	20.0	98	76 - 118
Trichlorofluoromethane	20	23.0	116	70 - 138
Vinyl Acetate	20	17.0	87	66 - 126
Vinyl Chloride	20	18.0	90	64 - 144
c-1,3-dichloropropene	20	18.0	91	78 - 125
cis-1,2-Dichloroethylene	20	18.0	90	72 - 128
t-1,3-Dichloropropene	20	19.0	97	79 - 123

Comments:

Ried Cleaners - Great Barrington, MA

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	21.1	106	2	50
1,1,1-Trichloroethane	18.8	94	3	50
1,1,2,2-Tetrachloroethane	20.3	102	3	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	18.0	90	2	50
1,1,2-Trichloroethane	19.0	95	1	50
1,1-Dichloroethylene	15.9	80	0	52
1,1-Dichloropropene	20.2	101	1	50
1,1-dichloroethane	17.4	87	3	50
1,2,3-Trichlorobenzene	19.6	98	3	50
1,2,3-Trichloropropane	20.3	102	4	50
1,2,4-Trichlorobenzene	19.3	97	3	50
1,2,4-Trimethylbenzene	20.6	103	0	50
1,2-Dibromo-3-Chloropropane	20.1	101	4	50
1,2-Dibromoethane	20.0	100	2	50
1,2-Dichlorobenzene	20.2	101	2	50
1,2-Dichloroethane	19.0	95	1	50
1,2-Dichloropropane	18.7	94	1	50
1,3,5-Trimethylbenzene	19.9	100	0	50
1,3-Dichlorobenzene	19.7	99	1	50
1,3-Dichloropropane	19.8	99	3	50
1,4-Dichlorobenzene	19.8	99	0	50
2,2-Dichloropropane	19.2	96	6	50
2-Butanone (MEK)	13.1	66	3	50
2-Chlorotoluene	19.8	99	1	50
2-Hexanone	16.9	85	4	50
2-Propanone (acetone)	10.5	53	4	50
4-Chlorotoluene	19.7	99	0	50
4-Methyl-2-Pentanone(MIBK)	19.7	99	4	50
Acrylonitrile	18.0	90	3	50
Benzene	17.4	87	1	50
Bromobenzene	20.0	100	2	50
Bromochloromethane	18.0	90	4	50
Bromodichloromethane	19.6	98	0	50
Bromoform	17.3	87	3	50
Bromomethane	18.4	92	9	50
Carbon Disulfide	15.3	77	3	50
Carbon tetrachloride	19.3	97	3	50
Chlorobenzene	18.2	91	2	34
Chloroethane	18.9	95	3	50
Chloroform	17.9	90	3	50
Chloromethane	17.1	86	3	50
Dibromochloromethane	17.3	87	2	50
Dibromomethane	19.8	99	2	50
Dichlorodifluoromethane	21.8	109	4	50
Ethyl Ether	17.0	85	1	50
Ethylbenzene	19.4	97	1	50
Hexachlorobutadiene	18.5	93	1	50
Isopropylbenzene	19.5	98	0	50
M/P Xylene	38.9	97	0	50
Methyl-t-Butyl Ether	19.6	98	5	50
Methylene Chloride	16.6	83	4	50

Ried Cleaners - Great Barrington, MA

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
N-Butylbenzene	19.5	98	1	50
N-Propylbenzene	19.8	99	1	50
Naphthalene	20.4	102	1	50
Ortho Xylene	19.2	96	0	50
Para-Isopropyltoluene	19.5	98	1	50
Sec-Butylbenzene	19.4	97	0	50
Styrene	20.0	100	2	50
Tert-Butylbenzene	19.7	99	1	50
Tetrachloroethylene	18.2	91	3	50
Tetrahydrofuran	17.3	87	0	50
Toluene	18.0	90	1	50
Trans-1,2-Dichloroethylene	17.3	87	1	50
Trichloroethylene	19.4	97	1	27
Trichlorofluoromethane	22.5	113	3	50
Vinyl Acetate	17.1	86	1	50
Vinyl Chloride	17.7	89	2	50
c-1,3-dichloropropene	18.5	93	2	50
cis-1,2-Dichloroethylene	17.1	86	5	50
t-1,3-Dichloropropene	19.9	100	3	50

Samples in Batch: AB84814, AB84815, AB84816, AB84817, AB84818, AB84819, AB84820, AB84821, AB84822, AB84823, AB84824, AB84825, AB84826, AB84827, AB84828, AB84829, AB84830, AB84831, AB84832

PN: 19120014

USEPA Region 1

Weston Solutions, Inc.
START IV
N Billerica, MA

CHAIN OF CUSTODY RECORD

Site #: 0346
Contact Name: Bonnie Mace
Contact Phone: 9778-621-1213

No: 1-121119-080219-0001

Ried Cleaners Site
Lab: NERL/OEME
Lab Phone: 617-918-8640

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0346-0021	SB-04A	Percent Solids (% Solids)	Soil	12/9/2019	14:22	1	40 ml VOA Vial	4 C	N
	0346-0021	SB-04A	VOCs	Soil	12/9/2019	14:22	1	40 ml VOA Vial	MeOH	N
	0346-0022	SB-04B	Percent Solids (% Solids)	Soil	12/9/2019	14:25	1	40 ml VOA Vial	4 C	N
	0346-0022	SB-04B	VOCs	Soil	12/9/2019	14:25	1	40 ml VOA Vial	MeOH	N
	0346-0023	SB-04C	Percent Solids (% Solids)	Soil	12/9/2019	14:28	1	40 ml VOA Vial	4 C	N
	0346-0023	SB-04C	VOCs	Soil	12/9/2019	14:28	1	40 ml VOA Vial	MeOH	N
	0346-0024	SB-04D	Percent Solids (% Solids)	Soil	12/9/2019	14:30	1	40 ml VOA Vial	4 C	N
	0346-0024	SB-04D	VOCs	Soil	12/9/2019	14:30	1	40 ml VOA Vial	MeOH	N
	0346-0025	SB-04E	Percent Solids (% Solids)	Soil	12/9/2019	14:40	1	40 ml VOA Vial	4 C	N
	0346-0025	SB-04E	VOCs	Soil	12/9/2019	14:40	1	40 ml VOA Vial	MeOH	N
	0346-0026	SB-04F	Percent Solids (% Solids)	Soil	12/9/2019	14:42	1	40 ml VOA Vial	4 C	N
	0346-0026	SB-04F	VOCs	Soil	12/9/2019	14:42	1	40 ml VOA Vial	MeOH	N
	0346-0027	SB-05A	Percent Solids (% Solids)	Soil	12/9/2019	14:55	1	40 ml VOA Vial	4 C	N
	0346-0027	SB-05A	VOCs	Soil	12/9/2019	14:55	1	40 ml VOA Vial	MeOH	N
	0346-0028	SB-05B	Percent Solids (% Solids)	Soil	12/9/2019	14:57	1	40 ml VOA Vial	4 C	N
	0346-0028	SB-05B	VOCs	Soil	12/9/2019	14:57	1	40 ml VOA Vial	MeOH	N
	0346-0029	SB-05C	Percent Solids (% Solids)	Soil	12/9/2019	15:00	1	40 ml VOA Vial	4 C	N
	0346-0029	SB-05C	VOCs	Soil	12/9/2019	15:00	1	40 ml VOA Vial	MeOH	N
	0346-0030	SB-05D	Percent Solids (% Solids)	Soil	12/9/2019	15:02	1	40 ml VOA Vial	4 C	N

Special Instructions: Please forward results to OSC Mike Cofsky.	
SAMPLES TRANSFERRED FROM	
CHAIN OF CUSTODY #	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Bonnie Mace	12/11/19 1440	Receiv 12/11/19	14:40 12/11/19	

PN: 19120014

USEPA Region 1

Weston Solutions, Inc.

START IV

N Billerica, MA

CHAIN OF CUSTODY RECORD

Site #: 0346

Contact Name: Bonnie Mace

Contact Phone: 9778-621-1213

No: 1-121119-080219-0001

Ried Cleaners Site

Lab: NERL/OEME


Lab Phone: 617-918-8640

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0346-0030	SB-05D	VOCs	Soil	12/9/2019	15:02	1	40 ml VOA Vial	MeOH	N
	0346-0031	SB-05E	Percent Solids (% Solids)	Soil	12/9/2019	15:12	1	40 ml VOA Vial	4 C	N
	0346-0031	SB-05E	VOCs	Soil	12/9/2019	15:12	1	40 ml VOA Vial	MeOH	N
	0346-0032	SB-05F	Percent Solids (% Solids)	Soil	12/9/2019	15:15	1	40 ml VOA Vial	4 C	N
	0346-0032	SB-05F	VOCs	Soil	12/9/2019	15:15	2	40 ml VOA Vial	MeOH	Y
	0346-0033	SB-06A	Percent Solids (% Solids)	Soil	12/9/2019	15:35	1	40 ml VOA Vial	4 C	N
	0346-0033	SB-06A	VOCs	Soil	12/9/2019	15:35	1	40 ml VOA Vial	MeOH	N
	0346-0034	SB-06B	Percent Solids (% Solids)	Soil	12/9/2019	15:37	1	40 ml VOA Vial	4 C	N
	0346-0034	SB-06B	VOCs	Soil	12/9/2019	15:37	1	40 ml VOA Vial	MeOH	N
	0346-0035	SB-06C	Percent Solids (% Solids)	Soil	12/9/2019	15:40	1	40 ml VOA Vial	4 C	N
	0346-0035	SB-06C	VOCs	Soil	12/9/2019	15:40	1	40 ml VOA Vial	MeOH	N
	0346-0036	SB-06D	Percent Solids (% Solids)	Soil	12/9/2019	15:42	1	40 ml VOA Vial	4 C	N
	0346-0036	SB-06D	VOCs	Soil	12/9/2019	15:42	1	40 ml VOA Vial	MeOH	N
	0346-0037	SB-06E	Percent Solids (% Solids)	Soil	12/9/2019	15:43	1	40 ml VOA Vial	4 C	N
	0346-0037	SB-06E	VOCs	Soil	12/9/2019	15:43	1	40 ml VOA Vial	MeOH	N
	0346-0038	SB-06F	Percent Solids (% Solids)	Soil	12/9/2019	15:45	1	40 ml VOA Vial	4 C	N
	0346-0038	SB-06F	VOCs	Soil	12/9/2019	15:45	1	40 ml VOA Vial	MeOH	N
	0346-0039	SB-106F	Percent Solids (% Solids)	Soil	12/9/2019	15:45	1	40 ml VOA Vial	4 C	N
	0346-0039	SB-106F	VOCs	Soil	12/9/2019	15:45	1	40 ml VOA Vial	MeOH	N

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Special Instructions: Please forward results to OSC Mike Cofsky.

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Bonnie Mace	12/11/19 1440		12/11/19 1440	

Lab Phone: 617-918-8640

Special Instructions: Please forward results to OSC Mike Cofsky.

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Erwin Shere</i>	12/11/19 1440	<i>[Signature]</i>	14.40 12/11/19	



United States Environmental Protection Agency
Laboratory Services and Applied Science Division
11 Technology Drive
North Chelmsford, MA 01863-2431

Page 1 of 47

Laboratory Report

January 06, 2020

Mike Cofsky - Mail Code 02-2
US EPA New England R1

Project Number: 19120014
Project: Ried Cleaners - Great Barrington, MA
Analysis: VOAs in Water
EPA Chemist: Allison Connors

Date Samples Received by the Laboratory: 12/11/2019

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, LSBSOP-VOAGCMS10.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar pre-concentrator and an Archon autosampler. The analysis SOP is based on US EPA Method 8260B, method 5030B, rev 2.0 SW-846, Rev 2.0, 1996. Method 624, 40CFR Part 136 Appendix A, July 1, 1992, and USEPA CLP SOW for Organic Analysis OLM04.2, 1999.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by DANIEL BOUDREAU
DN: c=US, o=U.S. Government,
ou=Environmental Protection Agency,
cn=DANIEL BOUDREAU,
0.9.2342.19200300.100.1.1=68001003654558
Date: 2020.01.06 16:45:24 -05'00'

19120014\$VOAMW

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C = The identification has been confirmed by GC/MS.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0040
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84833
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0040
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84833
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	98	93 - 113
Toluene-D8	100	85 - 126
1,4-Bromofluorobenzene	99	87 - 105

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0041
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84834
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	21	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	30	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0041
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84834
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	93 - 113
Toluene-D8	101	85 - 126
1,4-Bromofluorobenzene	99	87 - 105

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0042
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84835
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 10
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	10	
75-01-4	Vinyl Chloride	ND	10	
74-83-9	Bromomethane	ND	10	
75-00-3	Chloroethane	ND	10	
75-69-4	Trichlorofluoromethane	ND	10	
60-29-7	Ethyl Ether	ND	10	
67-64-1	2-Propanone (acetone)	240	50	J
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	10	
75-35-4	1,1-Dichloroethylene	ND	10	
75-15-0	Carbon Disulfide	ND	10	
75-71-8	Dichlorodifluoromethane	ND	10	
75-09-2	Methylene Chloride	ND	10	
107-13-1	Acrylonitrile	ND	10	
1634-04-4	Methyl-t-Butyl Ether	ND	10	
156-60-5	Trans-1,2-Dichloroethylene	ND	10	
75-34-3	1,1-dichloroethane	ND	10	
108-05-4	Vinyl Acetate	ND	10	
78-93-3	2-Butanone (MEK)	ND	10	
594-20-7	2,2-Dichloropropane	ND	10	
156-59-2	cis-1,2-Dichloroethylene	ND	10	
67-66-3	Chloroform	ND	10	
74-97-5	Bromochloromethane	ND	10	
109-99-9	Tetrahydrofuran	ND	10	
71-55-6	1,1,1-Trichloroethane	ND	10	
107-06-2	1,2-Dichloroethane	ND	10	
56-23-5	Carbon tetrachloride	ND	10	
71-43-2	Benzene	ND	10	
10061-01-5	c-1,3-dichloropropene	ND	10	
108-88-3	Toluene	ND	10	
10061-02-6	t-1,3-Dichloropropene	ND	10	
79-00-5	1,1,2-Trichloroethane	ND	10	
124-48-1	Dibromochloromethane	ND	10	
108-90-7	Chlorobenzene	ND	10	
563-58-6	1,1-Dichloropropene	ND	10	
79-01-6	Trichloroethylene	ND	10	
78-87-5	1,2-Dichloropropane	ND	10	
75-27-4	Bromodichloromethane	ND	10	
74-95-3	Dibromomethane	ND	10	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	10	
142-28-9	1,3-Dichloropropane	ND	10	
127-18-4	Tetrachloroethylene	200	10	
106-93-4	1,2-Dibromoethane	ND	10	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0042
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84835
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 10
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	10	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	
100-41-4	Ethylbenzene	ND	10	
108-38-3/106-42-3	M/P Xylene	ND	20	
95-47-6	Ortho Xylene	ND	10	
100-42-5	Styrene	ND	10	
75-25-2	Bromoform	ND	10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	
98-82-8	Isopropylbenzene	ND	10	
108-86-1	Bromobenzene	ND	10	
96-18-4	1,2,3-Trichloropropane	ND	10	
103-65-1	N-Propylbenzene	ND	10	
95-49-8	2-Chlorotoluene	ND	10	
106-43-4	4-Chlorotoluene	ND	10	
98-06-6	Tert-Butylbenzene	ND	10	
108-67-8	1,3,5-Trimethylbenzene	ND	10	
95-63-6	1,2,4-Trimethylbenzene	ND	10	
135-98-8	Sec-Butylbenzene	ND	10	
541-73-1	1,3-Dichlorobenzene	ND	10	
99-87-6	Para-Isopropyltoluene	ND	10	
106-46-7	1,4-Dichlorobenzene	ND	10	
95-50-1	1,2-Dichlorobenzene	ND	10	
104-51-8	N-Butylbenzene	ND	10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	10	
120-82-1	1,2,4-Trichlorobenzene	ND	10	
87-68-3	Hexachlorobutadiene	ND	10	
91-20-3	Naphthalene	ND	10	
87-61-6	1,2,3-Trichlorobenzene	ND	10	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	93 - 113
Toluene-D8	99	85 - 126
1,4-Bromofluorobenzene	98	87 - 105

Comments: J-estimated value, acetone did not meet continuing calibration criterion

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0043
Date of Collection: 12/11/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84836
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 500
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	500	
75-01-4	Vinyl Chloride	ND	500	
74-83-9	Bromomethane	ND	500	
75-00-3	Chloroethane	ND	500	
75-69-4	Trichlorofluoromethane	ND	500	
60-29-7	Ethyl Ether	ND	500	
67-64-1	2-Propanone (acetone)	ND	2500	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	500	
75-35-4	1,1-Dichloroethylene	ND	500	
75-15-0	Carbon Disulfide	ND	500	
75-71-8	Dichlorodifluoromethane	ND	500	
75-09-2	Methylene Chloride	ND	500	
107-13-1	Acrylonitrile	ND	500	
1634-04-4	Methyl-t-Butyl Ether	ND	500	
156-60-5	Trans-1,2-Dichloroethylene	ND	500	
75-34-3	1,1-dichloroethane	ND	500	
108-05-4	Vinyl Acetate	ND	500	
78-93-3	2-Butanone (MEK)	ND	500	
594-20-7	2,2-Dichloropropane	ND	500	
156-59-2	cis-1,2-Dichloroethylene	6100	500	
67-66-3	Chloroform	ND	500	
74-97-5	Bromochloromethane	ND	500	
109-99-9	Tetrahydrofuran	ND	500	
71-55-6	1,1,1-Trichloroethane	ND	500	
107-06-2	1,2-Dichloroethane	ND	500	
56-23-5	Carbon tetrachloride	ND	500	
71-43-2	Benzene	ND	500	
10061-01-5	c-1,3-dichloropropene	ND	500	
108-88-3	Toluene	ND	500	
10061-02-6	t-1,3-Dichloropropene	ND	500	
79-00-5	1,1,2-Trichloroethane	ND	500	
124-48-1	Dibromochloromethane	ND	500	
108-90-7	Chlorobenzene	ND	500	
563-58-6	1,1-Dichloropropene	ND	500	
79-01-6	Trichloroethylene	2600	500	
78-87-5	1,2-Dichloropropane	ND	500	
75-27-4	Bromodichloromethane	ND	500	
74-95-3	Dibromomethane	ND	500	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	500	
142-28-9	1,3-Dichloropropane	ND	500	
127-18-4	Tetrachloroethylene	47000	500	
106-93-4	1,2-Dibromoethane	ND	500	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0043
Date of Collection: 12/11/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84836
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 500
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	500	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	
100-41-4	Ethylbenzene	ND	500	
108-38-3/106-42-3	M/P Xylene	ND	1000	
95-47-6	Ortho Xylene	ND	500	
100-42-5	Styrene	ND	500	
75-25-2	Bromoform	ND	500	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	
98-82-8	Isopropylbenzene	ND	500	
108-86-1	Bromobenzene	ND	500	
96-18-4	1,2,3-Trichloropropane	ND	500	
103-65-1	N-Propylbenzene	ND	500	
95-49-8	2-Chlorotoluene	ND	500	
106-43-4	4-Chlorotoluene	ND	500	
98-06-6	Tert-Butylbenzene	ND	500	
108-67-8	1,3,5-Trimethylbenzene	ND	500	
95-63-6	1,2,4-Trimethylbenzene	ND	500	
135-98-8	Sec-Butylbenzene	ND	500	
541-73-1	1,3-Dichlorobenzene	ND	500	
99-87-6	Para-Isopropyltoluene	ND	500	
106-46-7	1,4-Dichlorobenzene	ND	500	
95-50-1	1,2-Dichlorobenzene	ND	500	
104-51-8	N-Butylbenzene	ND	500	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	500	
120-82-1	1,2,4-Trichlorobenzene	ND	500	
87-68-3	Hexachlorobutadiene	ND	500	
91-20-3	Naphthalene	ND	500	
87-61-6	1,2,3-Trichlorobenzene	ND	500	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	103	93 - 113
Toluene-D8	100	85 - 126
1,4-Bromofluorobenzene	98	87 - 105

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0044
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84837
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 500
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	500	
75-01-4	Vinyl Chloride	ND	500	
74-83-9	Bromomethane	ND	500	
75-00-3	Chloroethane	ND	500	
75-69-4	Trichlorofluoromethane	ND	500	
60-29-7	Ethyl Ether	ND	500	
67-64-1	2-Propanone (acetone)	ND	2500	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	500	
75-35-4	1,1-Dichloroethylene	ND	500	
75-15-0	Carbon Disulfide	ND	500	
75-71-8	Dichlorodifluoromethane	ND	500	
75-09-2	Methylene Chloride	ND	500	
107-13-1	Acrylonitrile	ND	500	
1634-04-4	Methyl-t-Butyl Ether	ND	500	
156-60-5	Trans-1,2-Dichloroethylene	ND	500	
75-34-3	1,1-dichloroethane	ND	500	
108-05-4	Vinyl Acetate	ND	500	
78-93-3	2-Butanone (MEK)	ND	500	
594-20-7	2,2-Dichloropropane	ND	500	
156-59-2	cis-1,2-Dichloroethylene	1800	500	
67-66-3	Chloroform	ND	500	
74-97-5	Bromochloromethane	ND	500	
109-99-9	Tetrahydrofuran	ND	500	
71-55-6	1,1,1-Trichloroethane	ND	500	
107-06-2	1,2-Dichloroethane	ND	500	
56-23-5	Carbon tetrachloride	ND	500	
71-43-2	Benzene	ND	500	
10061-01-5	c-1,3-dichloropropene	ND	500	
108-88-3	Toluene	ND	500	
10061-02-6	t-1,3-Dichloropropene	ND	500	
79-00-5	1,1,2-Trichloroethane	ND	500	
124-48-1	Dibromochloromethane	ND	500	
108-90-7	Chlorobenzene	ND	500	
563-58-6	1,1-Dichloropropene	ND	500	
79-01-6	Trichloroethylene	710	500	
78-87-5	1,2-Dichloropropane	ND	500	
75-27-4	Bromodichloromethane	ND	500	
74-95-3	Dibromomethane	ND	500	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	500	
142-28-9	1,3-Dichloropropane	ND	500	
127-18-4	Tetrachloroethylene	6500	500	
106-93-4	1,2-Dibromoethane	ND	500	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0044
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84837
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 500
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	500	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	
100-41-4	Ethylbenzene	ND	500	
108-38-3/106-42-3	M/P Xylene	ND	1000	
95-47-6	Ortho Xylene	ND	500	
100-42-5	Styrene	ND	500	
75-25-2	Bromoform	ND	500	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	
98-82-8	Isopropylbenzene	ND	500	
108-86-1	Bromobenzene	ND	500	
96-18-4	1,2,3-Trichloropropane	ND	500	
103-65-1	N-Propylbenzene	ND	500	
95-49-8	2-Chlorotoluene	ND	500	
106-43-4	4-Chlorotoluene	ND	500	
98-06-6	Tert-Butylbenzene	ND	500	
108-67-8	1,3,5-Trimethylbenzene	ND	500	
95-63-6	1,2,4-Trimethylbenzene	ND	500	
135-98-8	Sec-Butylbenzene	ND	500	
541-73-1	1,3-Dichlorobenzene	ND	500	
99-87-6	Para-Isopropyltoluene	ND	500	
106-46-7	1,4-Dichlorobenzene	ND	500	
95-50-1	1,2-Dichlorobenzene	ND	500	
104-51-8	N-Butylbenzene	ND	500	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	500	
120-82-1	1,2,4-Trichlorobenzene	ND	500	
87-68-3	Hexachlorobutadiene	ND	500	
91-20-3	Naphthalene	ND	500	
87-61-6	1,2,3-Trichlorobenzene	ND	500	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	93 - 113
Toluene-D8	100	85 - 126
1,4-Bromofluorobenzene	98	87 - 105

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0045
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84838
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1000
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1000	
75-01-4	Vinyl Chloride	ND	1000	
74-83-9	Bromomethane	ND	1000	
75-00-3	Chloroethane	ND	1000	
75-69-4	Trichlorofluoromethane	ND	1000	
60-29-7	Ethyl Ether	ND	1000	
67-64-1	2-Propanone (acetone)	ND	5000	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1000	
75-35-4	1,1-Dichloroethylene	ND	1000	
75-15-0	Carbon Disulfide	ND	1000	
75-71-8	Dichlorodifluoromethane	ND	1000	
75-09-2	Methylene Chloride	ND	1000	
107-13-1	Acrylonitrile	ND	1000	
1634-04-4	Methyl-t-Butyl Ether	ND	1000	
156-60-5	Trans-1,2-Dichloroethylene	ND	1000	
75-34-3	1,1-dichloroethane	ND	1000	
108-05-4	Vinyl Acetate	ND	1000	
78-93-3	2-Butanone (MEK)	ND	1000	
594-20-7	2,2-Dichloropropane	ND	1000	
156-59-2	cis-1,2-Dichloroethylene	3600	1000	
67-66-3	Chloroform	ND	1000	
74-97-5	Bromochloromethane	ND	1000	
109-99-9	Tetrahydrofuran	ND	1000	
71-55-6	1,1,1-Trichloroethane	ND	1000	
107-06-2	1,2-Dichloroethane	ND	1000	
56-23-5	Carbon tetrachloride	ND	1000	
71-43-2	Benzene	ND	1000	
10061-01-5	c-1,3-dichloropropene	ND	1000	
108-88-3	Toluene	ND	1000	
10061-02-6	t-1,3-Dichloropropene	ND	1000	
79-00-5	1,1,2-Trichloroethane	ND	1000	
124-48-1	Dibromochloromethane	ND	1000	
108-90-7	Chlorobenzene	ND	1000	
563-58-6	1,1-Dichloropropene	ND	1000	
79-01-6	Trichloroethylene	2300	1000	
78-87-5	1,2-Dichloropropane	ND	1000	
75-27-4	Bromodichloromethane	ND	1000	
74-95-3	Dibromomethane	ND	1000	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1000	
142-28-9	1,3-Dichloropropane	ND	1000	
127-18-4	Tetrachloroethylene	130000	2000	
106-93-4	1,2-Dibromoethane	ND	1000	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0045
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84838
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1000
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1000	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	
100-41-4	Ethylbenzene	ND	1000	
108-38-3/106-42-3	M/P Xylene	ND	2000	
95-47-6	Ortho Xylene	ND	1000	
100-42-5	Styrene	ND	1000	
75-25-2	Bromoform	ND	1000	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	
98-82-8	Isopropylbenzene	ND	1000	
108-86-1	Bromobenzene	ND	1000	
96-18-4	1,2,3-Trichloropropane	ND	1000	
103-65-1	N-Propylbenzene	ND	1000	
95-49-8	2-Chlorotoluene	ND	1000	
106-43-4	4-Chlorotoluene	ND	1000	
98-06-6	Tert-Butylbenzene	ND	1000	
108-67-8	1,3,5-Trimethylbenzene	ND	1000	
95-63-6	1,2,4-Trimethylbenzene	ND	1000	
135-98-8	Sec-Butylbenzene	ND	1000	
541-73-1	1,3-Dichlorobenzene	ND	1000	
99-87-6	Para-Isopropyltoluene	ND	1000	
106-46-7	1,4-Dichlorobenzene	ND	1000	
95-50-1	1,2-Dichlorobenzene	ND	1000	
104-51-8	N-Butylbenzene	ND	1000	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1000	
120-82-1	1,2,4-Trichlorobenzene	ND	1000	
87-68-3	Hexachlorobutadiene	ND	1000	
91-20-3	Naphthalene	ND	1000	
87-61-6	1,2,3-Trichlorobenzene	ND	1000	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	93 - 113
Toluene-D8	100	85 - 126
1,4-Bromofluorobenzene	98	87 - 105

Comments: Tetrachloroethyle is reported from a 2000x dilution prepared and analyzed on 12/16/19.

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0046
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84839
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 5
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	5.0	
75-01-4	Vinyl Chloride	ND	5.0	
74-83-9	Bromomethane	ND	5.0	
75-00-3	Chloroethane	ND	5.0	
75-69-4	Trichlorofluoromethane	ND	5.0	
60-29-7	Ethyl Ether	ND	5.0	
67-64-1	2-Propanone (acetone)	ND	25	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	5.0	
75-35-4	1,1-Dichloroethylene	ND	5.0	
75-15-0	Carbon Disulfide	ND	5.0	
75-71-8	Dichlorodifluoromethane	ND	5.0	
75-09-2	Methylene Chloride	ND	5.0	
107-13-1	Acrylonitrile	ND	5.0	
1634-04-4	Methyl-t-Butyl Ether	ND	5.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	5.0	
75-34-3	1,1-dichloroethane	ND	5.0	
108-05-4	Vinyl Acetate	ND	5.0	
78-93-3	2-Butanone (MEK)	ND	5.0	
594-20-7	2,2-Dichloropropane	ND	5.0	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	
67-66-3	Chloroform	ND	5.0	
74-97-5	Bromochloromethane	ND	5.0	
109-99-9	Tetrahydrofuran	ND	5.0	
71-55-6	1,1,1-Trichloroethane	ND	5.0	
107-06-2	1,2-Dichloroethane	ND	5.0	
56-23-5	Carbon tetrachloride	ND	5.0	
71-43-2	Benzene	ND	5.0	
10061-01-5	c-1,3-dichloropropene	ND	5.0	
108-88-3	Toluene	ND	5.0	
10061-02-6	t-1,3-Dichloropropene	ND	5.0	
79-00-5	1,1,2-Trichloroethane	ND	5.0	
124-48-1	Dibromochloromethane	ND	5.0	
108-90-7	Chlorobenzene	ND	5.0	
563-58-6	1,1-Dichloropropene	ND	5.0	
79-01-6	Trichloroethylene	ND	5.0	
78-87-5	1,2-Dichloropropane	ND	5.0	
75-27-4	Bromodichloromethane	ND	5.0	
74-95-3	Dibromomethane	ND	5.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	5.0	
142-28-9	1,3-Dichloropropane	ND	5.0	
127-18-4	Tetrachloroethylene	62	5.0	
106-93-4	1,2-Dibromoethane	ND	5.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0046
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84839
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 5
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	5.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	
100-41-4	Ethylbenzene	ND	5.0	
108-38-3/106-42-3	M/P Xylene	ND	10	
95-47-6	Ortho Xylene	ND	5.0	
100-42-5	Styrene	ND	5.0	
75-25-2	Bromoform	ND	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	
98-82-8	Isopropylbenzene	ND	5.0	
108-86-1	Bromobenzene	ND	5.0	
96-18-4	1,2,3-Trichloropropane	ND	5.0	
103-65-1	N-Propylbenzene	ND	5.0	
95-49-8	2-Chlorotoluene	ND	5.0	
106-43-4	4-Chlorotoluene	ND	5.0	
98-06-6	Tert-Butylbenzene	ND	5.0	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	
135-98-8	Sec-Butylbenzene	ND	5.0	
541-73-1	1,3-Dichlorobenzene	ND	5.0	
99-87-6	Para-Isopropyltoluene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	5.0	
95-50-1	1,2-Dichlorobenzene	ND	5.0	
104-51-8	N-Butylbenzene	ND	5.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	5.0	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	
87-68-3	Hexachlorobutadiene	ND	5.0	
91-20-3	Naphthalene	ND	5.0	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	93 - 113
Toluene-D8	99	85 - 126
1,4-Bromofluorobenzene	99	87 - 105

Ried Cleaners - Great Barrington, MA

Laboratory Blank for \$VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	GW
Date of Preparation:	12/12/2019	Amount Prepared:	5.0 mL
Date of Analysis:	12/12/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5.0 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank for \$VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	GW
Date of Preparation:	12/12/2019	Amount Prepared:	5.0 mL
Date of Analysis:	12/12/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5.0 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	97	93 - 113
Toluene-D8	99	85 - 126
1,4-Bromofluorobenzene	100	87 - 105

Comments: Method Blank for AB84846, AB84833, AB84834, AB84835, AB84841, AB84842, AB84844, AB84845, and AB84839

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0047
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84840
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	58	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	21	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	52	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0047
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84840
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	93 - 113
Toluene-D8	100	85 - 126
1,4-Bromofluorobenzene	99	87 - 105

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID:	0346-0048	Lab Sample ID:	AB84841
Date of Collection:	12/10/2019	Matrix:	GW
Date of Preparation:	12/12/2019	Amount Prepared:	5 mL
Date of Analysis:	12/12/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	7.7	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	12	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	7.3	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	18	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0048
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84841
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	93 - 113
Toluene-D8	99	85 - 126
1,4-Bromofluorobenzene	98	87 - 105

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0049
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84842
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	1.8	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	2.2	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	12	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0049
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84842
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	93 - 113
Toluene-D8	98	85 - 126
1,4-Bromofluorobenzene	98	87 - 105

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0050
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84843
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 2
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	2.0	
75-01-4	Vinyl Chloride	ND	2.0	
74-83-9	Bromomethane	ND	2.0	
75-00-3	Chloroethane	ND	2.0	
75-69-4	Trichlorofluoromethane	ND	2.0	
60-29-7	Ethyl Ether	ND	2.0	
67-64-1	2-Propanone (acetone)	30	10	J
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	2.0	
75-35-4	1,1-Dichloroethylene	ND	2.0	
75-15-0	Carbon Disulfide	ND	2.0	
75-71-8	Dichlorodifluoromethane	ND	2.0	
75-09-2	Methylene Chloride	ND	2.0	
107-13-1	Acrylonitrile	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	2.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	2.0	
75-34-3	1,1-dichloroethane	ND	2.0	
108-05-4	Vinyl Acetate	ND	2.0	
78-93-3	2-Butanone (MEK)	ND	2.0	
594-20-7	2,2-Dichloropropane	ND	2.0	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	
67-66-3	Chloroform	ND	2.0	
74-97-5	Bromochloromethane	ND	2.0	
109-99-9	Tetrahydrofuran	ND	2.0	
71-55-6	1,1,1-Trichloroethane	ND	2.0	
107-06-2	1,2-Dichloroethane	ND	2.0	
56-23-5	Carbon tetrachloride	ND	2.0	
71-43-2	Benzene	ND	2.0	
10061-01-5	c-1,3-dichloropropene	ND	2.0	
108-88-3	Toluene	ND	2.0	
10061-02-6	t-1,3-Dichloropropene	ND	2.0	
79-00-5	1,1,2-Trichloroethane	ND	2.0	
124-48-1	Dibromochloromethane	ND	2.0	
108-90-7	Chlorobenzene	ND	2.0	
563-58-6	1,1-Dichloropropene	ND	2.0	
79-01-6	Trichloroethylene	ND	2.0	
78-87-5	1,2-Dichloropropane	ND	2.0	
75-27-4	Bromodichloromethane	ND	2.0	
74-95-3	Dibromomethane	ND	2.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	2.0	
142-28-9	1,3-Dichloropropane	ND	2.0	
127-18-4	Tetrachloroethylene	78	2.0	
106-93-4	1,2-Dibromoethane	ND	2.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0050
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84843
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 2
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	
100-41-4	Ethylbenzene	ND	2.0	
108-38-3/106-42-3	M/P Xylene	ND	4.0	
95-47-6	Ortho Xylene	ND	2.0	
100-42-5	Styrene	ND	2.0	
75-25-2	Bromoform	ND	2.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	
98-82-8	Isopropylbenzene	ND	2.0	
108-86-1	Bromobenzene	ND	2.0	
96-18-4	1,2,3-Trichloropropane	ND	2.0	
103-65-1	N-Propylbenzene	ND	2.0	
95-49-8	2-Chlorotoluene	ND	2.0	
106-43-4	4-Chlorotoluene	ND	2.0	
98-06-6	Tert-Butylbenzene	ND	2.0	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	
135-98-8	Sec-Butylbenzene	ND	2.0	
541-73-1	1,3-Dichlorobenzene	ND	2.0	
99-87-6	Para-Isopropyltoluene	ND	2.0	
106-46-7	1,4-Dichlorobenzene	ND	2.0	
95-50-1	1,2-Dichlorobenzene	ND	2.0	
104-51-8	N-Butylbenzene	ND	2.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	2.0	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	
87-68-3	Hexachlorobutadiene	ND	2.0	
91-20-3	Naphthalene	ND	2.0	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	93 - 113
Toluene-D8	99	85 - 126
1,4-Bromofluorobenzene	98	87 - 105

Comments: J-estimated value, acetone did not meet continuing calibration criterion

Ried Cleaners - Great Barrington, MA

Laboratory Blank for \$VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	GW
Date of Preparation:	12/12/2019	Amount Prepared:	5.0 mL
Date of Analysis:	12/12/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5.0 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

Laboratory Blank for \$VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	GW
Date of Preparation:	12/12/2019	Amount Prepared:	5.0 mL
Date of Analysis:	12/12/2019	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	5.0 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	93 - 113
Toluene-D8	100	85 - 126
1,4-Bromofluorobenzene	99	87 - 105

Comments: Method Blank for AB84839 DUP, AB84839 MS, AB84839 MSD, AB84843, AB84840, AB84836, AB84837, and AB84838

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0051
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84844
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	7.0	5.0	J
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	1.1	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0051
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84844
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	93 - 113
Toluene-D8	99	85 - 126
1,4-Bromofluorobenzene	98	87 - 105

Comments: J-estimated value, acetone did not meet continuing calibration criterion

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0052
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84845
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	11	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	31	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0052
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84845
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	ND	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	93 - 113
Toluene-D8	100	85 - 126
1,4-Bromofluorobenzene	100	87 - 105

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0053
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84846
Matrix: Aqueous PE
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	30	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	55	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	29	1.0	
75-15-0	Carbon Disulfide	46	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	29	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	47	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	21	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	20	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	41	1.0	
107-06-2	1,2-Dichloroethane	59	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	29	1.0	
10061-02-6	t-1,3-Dichloropropene	14	1.0	
79-00-5	1,1,2-Trichloroethane	41	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	49	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	59	1.0	
78-87-5	1,2-Dichloropropane	23	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	52	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	26	1.0	
106-93-4	1,2-Dibromoethane	39	1.0	

Ried Cleaners - Great Barrington, MA

VOAs in Water

Client Sample ID: 0346-0053
Date of Collection: 12/10/2019
Date of Preparation: 12/12/2019
Date of Analysis: 12/12/2019
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AB84846
Matrix: Aqueous PE
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
591-78-6	2-Hexanone	47	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	56	1.0	
108-38-3/106-42-3	M/P Xylene	39	2.0	
95-47-6	Ortho Xylene	19	1.0	
100-42-5	Styrene	34	1.0	
75-25-2	Bromoform	15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	68	1.0	
98-82-8	Isopropylbenzene	38	1.0	
108-86-1	Bromobenzene	47	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	19	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	38	1.0	
95-50-1	1,2-Dichlorobenzene	57	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	76	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	38	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	100	93 - 113
Toluene-D8	101	85 - 126
1,4-Bromofluorobenzene	103	87 - 105

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE (MS) RECOVERY

Sample ID: AB84839

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	100	ND	100	100	79 - 128
1,1,1-Trichloroethane	100	ND	100	100	68 - 140
1,1,2,2-Tetrachloroethane	100	ND	97.0	97	67 - 130
1,1,2-Trichloro-1,2,2-Trifluoroetha	100	ND	97.0	97	60 - 145
1,1,2-Trichloroethane	100	ND	100	100	72 - 129
1,1-Dichloroethylene	100	ND	88.0	88	57 - 137
1,1-Dichloropropene	100	ND	95.0	95	74 - 132
1,1-dichloroethane	100	ND	98.0	98	66 - 135
1,2,3-Trichlorobenzene	100	ND	95.0	95	45 - 133
1,2,3-Trichloropropane	100	ND	92.0	92	46 - 139
1,2,4-Trichlorobenzene	100	ND	94.0	94	49 - 131
1,2,4-Trimethylbenzene	100	ND	96.0	96	74 - 132
1,2-Dibromo-3-Chloropropane	100	ND	92.0	92	42 - 132
1,2-Dibromoethane	100	ND	98.0	98	66 - 128
1,2-Dichlorobenzene	100	ND	96.0	96	70 - 124
1,2-Dichloroethane	100	ND	100	100	70 - 134
1,2-Dichloropropane	100	ND	91.0	91	75 - 124
1,3,5-Trimethylbenzene	100	ND	92.0	92	67 - 129
1,3-Dichlorobenzene	100	ND	92.0	92	69 - 127
1,3-Dichloropropane	100	ND	95.0	95	68 - 129
1,4-Dichlorobenzene	100	ND	94.0	94	70 - 123
2,2-Dichloropropane	100	ND	100	100	58 - 139
2-Butanone (MEK)	100	ND	75.0	75	19 - 109
2-Chlorotoluene	100	ND	93.0	93	65 - 127
2-Hexanone	100	ND	84.0	84	21 - 124
2-Propanone (acetone)	100	ND	60.0	60	29 - 164
4-Chlorotoluene	100	ND	91.0	91	69 - 129
4-Methyl-2-Pentanone(MIBK)	100	ND	97.0	97	31 - 149
Acrylonitrile	100	ND	110	110	40 - 145
Benzene	100	ND	95.0	95	71 - 125
Bromobenzene	100	ND	92.0	92	66 - 125
Bromochloromethane	100	ND	100	100	64 - 136
Bromodichloromethane	100	ND	93.0	93	74 - 132
Bromoform	100	ND	81.0	81	61 - 133
Bromomethane	100	ND	100	100	50 - 162
Carbon Disulfide	100	ND	89.0	89	56 - 138
Carbon tetrachloride	100	ND	100	100	73 - 133
Chlorobenzene	100	ND	99.0	99	72 - 127
Chloroethane	100	ND	100	100	62 - 150
Chloroform	100	ND	100	100	65 - 147
Chloromethane	100	ND	100	100	64 - 166
Dibromochloromethane	100	ND	91.0	91	71 - 130
Dibromomethane	100	ND	96.0	96	71 - 130
Dichlorodifluoromethane	100	ND	130	130	30 - 132
Ethyl Ether	100	ND	94.0	94	60 - 145
Ethylbenzene	100	ND	94.0	94	80 - 125
Hexachlorobutadiene	100	ND	85.0	85	57 - 120

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Ried Cleaners - Great Barrington, MA

MATRIX SPIKE (MS) RECOVERY

Sample ID: AB84839

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
Isopropylbenzene	100	ND	91.0	91	65 - 131
M/P Xylene	200	ND	190	95	83 - 121
Methyl-t-Butyl Ether	100	ND	110	110	50 - 124
Methylene Chloride	100	ND	96.0	96	55 - 151
N-Butylbenzene	100	ND	90.0	90	67 - 133
N-Propylbenzene	100	ND	91.0	91	62 - 132
Naphthalene	100	ND	98.0	98	33 - 134
Ortho Xylene	100	ND	94.0	94	76 - 126
Para-Isopropyltoluene	100	ND	91.0	91	70 - 134
Sec-Butylbenzene	100	ND	89.0	89	66 - 132
Styrene	100	ND	96.0	96	54 - 148
Tert-Butylbenzene	100	ND	90.0	90	63 - 134
Tetrachloroethylene	100	62.0	140	78	65 - 124
Tetrahydrofuran	100	ND	99.0	99	37 - 139
Toluene	100	ND	97.0	97	72 - 128
Trans-1,2-Dichloroethylene	100	ND	97.0	97	66 - 131
Trichloroethylene	100	ND	92.0	92	72 - 129
Trichlorofluoromethane	100	ND	120	120	67 - 151
Vinyl Acetate	100	ND	99.0	99	32 - 147
Vinyl Chloride	100	ND	93.0	93	65 - 151
c-1,3-dichloropropene	100	ND	97.0	97	68 - 126
cis-1,2-Dichloroethylene	100	ND	99.0	99	54 - 141
t-1,3-Dichloropropene	100	ND	100	100	68 - 130

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Sample ID:AB84839

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	100	98.0	98	2.02	40
1,1,1-Trichloroethane	100	100	100	0.00	16
1,1,2,2-Tetrachloroethane	100	94.0	94	3.14	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	100	89.0	89	8.60	40
1,1,2-Trichloroethane	100	99.0	99	1.00	40
1,1-Dichloroethylene	100	84.0	84	4.65	35
1,1-Dichloropropene	100	91.0	91	4.30	40
1,1-dichloroethane	100	94.0	94	4.17	40
1,2,3-Trichlorobenzene	100	91.0	91	4.30	40
1,2,3-Trichloropropane	100	90.0	90	2.20	40
1,2,4-Trichlorobenzene	100	89.0	89	5.46	40
1,2,4-Trimethylbenzene	100	91.0	91	5.35	40
1,2-Dibromo-3-Chloropropane	100	87.0	87	5.59	40
1,2-Dibromoethane	100	95.0	95	3.11	40
1,2-Dichlorobenzene	100	91.0	91	5.35	40
1,2-Dichloroethane	100	97.0	97	3.05	23
1,2-Dichloropropane	100	88.0	88	3.35	40
1,3,5-Trimethylbenzene	100	88.0	88	4.44	40
1,3-Dichlorobenzene	100	88.0	88	4.44	40
1,3-Dichloropropane	100	93.0	93	2.13	40
1,4-Dichlorobenzene	100	89.0	89	5.46	21
2,2-Dichloropropane	100	97.0	97	3.05	40
2-Butanone (MEK)	100	71.0	71	5.48	40
2-Chlorotoluene	100	88.0	88	5.52	40
2-Hexanone	100	79.0	79	6.13	40
2-Propanone (acetone)	100	57.0	57	5.13	40
4-Chlorotoluene	100	87.0	87	4.49	40
4-Methyl-2-Pentanone(MIBK)	100	92.0	92	5.29	40
Acrylonitrile	100	100	100	9.52	40
Benzene	100	88.0	88	7.65	14
Bromobenzene	100	89.0	89	3.31	40
Bromochloromethane	100	100	100	0.00	40
Bromodichloromethane	100	91.0	91	2.17	21
Bromoform	100	80.0	80	1.24	40
Bromomethane	100	100	100	0.00	40
Carbon Disulfide	100	83.0	83	6.98	40
Carbon tetrachloride	100	96.0	96	4.08	19
Chlorobenzene	100	93.0	93	6.25	40
Chloroethane	100	97.0	97	3.05	40
Chloroform	100	97.0	97	3.05	16
Chloromethane	100	92.0	92	8.33	40
Dibromochloromethane	100	87.0	87	4.49	36
Dibromomethane	100	94.0	94	2.11	40
Dichlorodifluoromethane	100	120	120	8.00	40
Ethyl Ether	100	93.0	93	1.07	40
Ethylbenzene	100	90.0	90	4.35	40
Hexachlorobutadiene	100	80.0	80	6.06	40
Isopropylbenzene	100	87.0	87	4.49	40

Ried Cleaners - Great Barrington, MA

MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Sample ID:AB84839

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
M/P Xylene	200	180	90	5.41	40
Methyl-t-Butyl Ether	100	110	110	0.00	40
Methylene Chloride	100	90.0	90	6.45	40
N-Butylbenzene	100	86.0	86	4.55	40
N-Propylbenzene	100	87.0	87	4.49	40
Naphthalene	100	94.0	94	4.17	40
Ortho Xylene	100	90.0	90	4.35	40
Para-Isopropyltoluene	100	88.0	88	3.35	40
Sec-Butylbenzene	100	86.0	86	3.43	40
Styrene	100	92.0	92	4.26	40
Tert-Butylbenzene	100	86.0	86	4.55	40
Tetrachloroethylene	100	130	68	13.6	40
Tetrahydrofuran	100	96.0	96	3.08	40
Toluene	100	92.0	92	5.29	40
Trans-1,2-Dichloroethylene	100	93.0	93	4.21	40
Trichloroethylene	100	90.0	90	2.20	22
Trichlorofluoromethane	100	110	110	8.70	40
Vinyl Acetate	100	96.0	96	3.08	40
Vinyl Chloride	100	88.0	88	5.52	19
c-1,3-dichloropropene	100	93.0	93	4.21	40
cis-1,2-Dichloroethylene	100	96.0	96	3.08	40
t-1,3-Dichloropropene	100	100	100	0.00	40

Ried Cleaners - Great Barrington, MA

Laboratory Duplicate Results

Sample ID: AB84839

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	NC	30
1,1,1-Trichloroethane	ND	ND	NC	30
1,1,2,2-Tetrachloroethane	ND	ND	NC	30
1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	ND	NC	30
1,1,2-Trichloroethane	ND	ND	NC	30
1,1-Dichloroethylene	ND	ND	NC	30
1,1-Dichloropropene	ND	ND	NC	30
1,1-dichloroethane	ND	ND	NC	30
1,2,3-Trichlorobenzene	ND	ND	NC	30
1,2,3-Trichloropropane	ND	ND	NC	30
1,2,4-Trichlorobenzene	ND	ND	NC	30
1,2,4-Trimethylbenzene	ND	ND	NC	30
1,2-Dibromo-3-Chloropropane	ND	ND	NC	30
1,2-Dibromoethane	ND	ND	NC	30
1,2-Dichlorobenzene	ND	ND	NC	30
1,2-Dichloroethane	ND	ND	NC	30
1,2-Dichloropropane	ND	ND	NC	30
1,3,5-Trimethylbenzene	ND	ND	NC	30
1,3-Dichlorobenzene	ND	ND	NC	30
1,3-Dichloropropane	ND	ND	NC	30
1,4-Dichlorobenzene	ND	ND	NC	30
2,2-Dichloropropane	ND	ND	NC	30
2-Butanone (MEK)	ND	ND	NC	30
2-Chlorotoluene	ND	ND	NC	30
2-Hexanone	ND	ND	NC	30
2-Propanone (acetone)	ND	ND	NC	30
4-Chlorotoluene	ND	ND	NC	30
4-Methyl-2-Pentanone(MIBK)	ND	ND	NC	30
Acrylonitrile	ND	ND	NC	30
Benzene	ND	ND	NC	30
Bromobenzene	ND	ND	NC	30
Bromochloromethane	ND	ND	NC	30
Bromodichloromethane	ND	ND	NC	30
Bromoform	ND	ND	NC	30
Bromomethane	ND	ND	NC	30
Carbon Disulfide	ND	ND	NC	30
Carbon tetrachloride	ND	ND	NC	30
Chlorobenzene	ND	ND	NC	30
Chloroethane	ND	ND	NC	30
Chloroform	ND	ND	NC	30
Chloromethane	ND	ND	NC	30
Dibromochloromethane	ND	ND	NC	30
Dibromomethane	ND	ND	NC	30
Dichlorodifluoromethane	ND	ND	NC	30
Ethyl Ether	ND	ND	NC	30
Ethylbenzene	ND	ND	NC	30
Hexachlorobutadiene	ND	ND	NC	30
Isopropylbenzene	ND	ND	NC	30
M/P Xylene	ND	ND	NC	30
Methyl-t-Butyl Ether	ND	ND	NC	30

Ried Cleaners - Great Barrington, MA

Laboratory Duplicate Results

Sample ID: AB84839

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
Methylene Chloride	ND	ND	NC	30
N-Butylbenzene	ND	ND	NC	30
N-Propylbenzene	ND	ND	NC	30
Naphthalene	ND	ND	NC	30
Ortho Xylene	ND	ND	NC	30
Para-Isopropyltoluene	ND	ND	NC	30
Sec-Butylbenzene	ND	ND	NC	30
Styrene	ND	ND	NC	30
Tert-Butylbenzene	ND	ND	NC	30
Tetrachloroethylene	62.0	59.0	3.64	30
Tetrahydrofuran	ND	ND	NC	30
Toluene	ND	ND	NC	30
Trans-1,2-Dichloroethylene	ND	ND	NC	30
Trichloroethylene	ND	ND	NC	30
Trichlorofluoromethane	ND	ND	NC	30
Vinyl Acetate	ND	ND	NC	30
Vinyl Chloride	ND	ND	NC	30
c-1,3-dichloropropene	ND	ND	NC	30
cis-1,2-Dichloroethylene	ND	ND	NC	30
t-1,3-Dichloropropene	ND	ND	NC	30

Ried Cleaners - Great Barrington, MA

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	19.0	95	80 - 128
1,1,1-Trichloroethane	20	19.0	95	72 - 140
1,1,2,2-Tetrachloroethane	20	18.0	90	77 - 120
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	18.0	90	53 - 153
1,1,2-Trichloroethane	20	19.0	95	79 - 121
1,1-Dichloroethylene	20	16.0	80	59 - 137
1,1-Dichloropropene	20	17.0	85	80 - 132
1,1-dichloroethane	20	18.0	90	74 - 127
1,2,3-Trichlorobenzene	20	18.0	90	58 - 125
1,2,3-Trichloropropane	20	17.0	85	66 - 119
1,2,4-Trichlorobenzene	20	17.0	85	64 - 123
1,2,4-Trimethylbenzene	20	18.0	90	79 - 131
1,2-Dibromo-3-Chloropropane	20	18.0	90	57 - 118
1,2-Dibromoethane	20	18.0	90	74 - 121
1,2-Dichlorobenzene	20	17.0	85	77 - 120
1,2-Dichloroethane	20	19.0	95	80 - 120
1,2-Dichloropropane	20	17.0	85	78 - 122
1,3,5-Trimethylbenzene	20	17.0	85	77 - 127
1,3-Dichlorobenzene	20	17.0	85	76 - 119
1,3-Dichloropropane	20	18.0	90	79 - 117
1,4-Dichlorobenzene	20	17.0	85	75 - 119
2,2-Dichloropropane	20	20.0	100	69 - 143
2-Butanone (MEK)	20	13.0	65	27 - 105
2-Chlorotoluene	20	17.0	85	75 - 122
2-Hexanone	20	15.0	75	34 - 114
2-Propanone (acetone)	20	11.0	55	12 - 209
4-Chlorotoluene	20	17.0	85	77 - 123
4-Methyl-2-Pentanone(MIBK)	20	17.0	85	45 - 142
Acrylonitrile	20	19.0	95	64 - 125
Benzene	20	17.0	85	78 - 120
Bromobenzene	20	17.0	85	73 - 119
Bromochloromethane	20	19.0	95	67 - 135
Bromodichloromethane	20	18.0	90	81 - 123
Bromoform	20	16.0	80	63 - 137
Bromomethane	20	21.0	105	54 - 162
Carbon Disulfide	20	16.0	80	55 - 141
Carbon tetrachloride	20	18.0	90	75 - 134
Chlorobenzene	20	18.0	90	76 - 122
Chloroethane	20	20.0	100	63 - 145
Chloroform	20	19.0	95	73 - 135
Chloromethane	20	19.0	95	59 - 168
Dibromochloromethane	20	17.0	85	79 - 128
Dibromomethane	20	18.0	90	80 - 121
Dichlorodifluoromethane	20	24.0	120	39 - 154
Ethyl Ether	20	18.0	90	69 - 127
Ethylbenzene	20	17.0	85	85 - 118
Hexachlorobutadiene	20	16.0	80	67 - 121
Isopropylbenzene	20	17.0	85	75 - 127
M/P Xylene	40	35.0	88	85 - 121
Methyl-t-Butyl Ether	20	21.0	105	68 - 129
Methylene Chloride	20	18.0	90	70 - 134
N-Butylbenzene	20	16.0	80	75 - 133
N-Propylbenzene	20	17.0	85	76 - 124

Ried Cleaners - Great Barrington, MA

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
Naphthalene	20	18.0	90	45 - 129
Ortho Xylene	20	17.0	85	77 - 127
Para-Isopropyltoluene	20	17.0	85	72 - 138
Sec-Butylbenzene	20	16.0	80	74 - 131
Styrene	20	18.0	90	81 - 131
Tert-Butylbenzene	20	17.0	85	73 - 130
Tetrachloroethylene	20	16.0	80	72 - 118
Tetrahydrofuran	20	18.0	90	62 - 121
Toluene	20	18.0	90	77 - 124
Trans-1,2-Dichloroethylene	20	18.0	90	66 - 135
Trichloroethylene	20	17.0	85	78 - 122
Trichlorofluoromethane	20	23.0	115	65 - 149
Vinyl Acetate	20	17.0	85	61 - 125
Vinyl Chloride	20	19.0	95	57 - 157
c-1,3-dichloropropene	20	19.0	95	75 - 128
cis-1,2-Dichloroethylene	20	18.0	90	67 - 137
t-1,3-Dichloropropene	20	20.0	100	79 - 125

Comments:

Ried Cleaners - Great Barrington, MA

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	22	110	15	50
1,1,1-Trichloroethane	23	115	19	50
1,1,2,2-Tetrachloroethane	22	110	20	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	100	11	50
1,1,2-Trichloroethane	23	115	19	50
1,1-Dichloroethylene	19	95	17	52
1,1-Dichloropropene	21	105	21	50
1,1-dichloroethane	21	105	15	50
1,2,3-Trichlorobenzene	21	105	15	50
1,2,3-Trichloropropane	21	105	21	50
1,2,4-Trichlorobenzene	21	105	21	50
1,2,4-Trimethylbenzene	21	105	15	50
1,2-Dibromo-3-Chloropropane	21	105	15	50
1,2-Dibromoethane	22	110	20	50
1,2-Dichlorobenzene	21	105	21	50
1,2-Dichloroethane	22	110	15	50
1,2-Dichloropropane	20	100	16	50
1,3,5-Trimethylbenzene	21	105	21	50
1,3-Dichlorobenzene	21	105	21	50
1,3-Dichloropropane	21	105	15	50
1,4-Dichlorobenzene	21	105	21	50
2,2-Dichloropropane	23	115	14	50
2-Butanone (MEK)	17	85	27	50
2-Chlorotoluene	20	100	16	50
2-Hexanone	19	95	24	50
2-Propanone (acetone)	12	60	9	50
4-Chlorotoluene	20	100	16	50
4-Methyl-2-Pentanone(MIBK)	22	110	26	50
Acrylonitrile	23	115	19	50
Benzene	20	100	16	50
Bromobenzene	21	105	21	50
Bromochloromethane	23	115	19	50
Bromodichloromethane	21	105	15	50
Bromoform	19	95	17	50
Bromomethane	22	110	5	50
Carbon Disulfide	19	95	17	50
Carbon tetrachloride	22	110	20	50
Chlorobenzene	22	110	20	50
Chloroethane	22	110	10	50
Chloroform	22	110	15	50
Chloromethane	22	110	15	50
Dibromochloromethane	21	105	21	50
Dibromomethane	21	105	15	50
Dichlorodifluoromethane	26	130	8	50
Ethyl Ether	20	100	11	50
Ethylbenzene	21	105	21	50
Hexachlorobutadiene	19	95	17	50
Isopropylbenzene	20	100	16	50
M/P Xylene	41	103	16	50
Methyl-t-Butyl Ether	25	125	17	50
Methylene Chloride	20	100	11	50

Ried Cleaners - Great Barrington, MA

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
N-Butylbenzene	20	100	22	50
N-Propylbenzene	20	100	16	50
Naphthalene	22	110	20	50
Ortho Xylene	21	105	21	50
Para-Isopropyltoluene	20	100	16	50
Sec-Butylbenzene	20	100	22	50
Styrene	21	105	15	50
Tert-Butylbenzene	20	100	16	50
Tetrachloroethylene	20	100	22	50
Tetrahydrofuran	21	105	15	50
Toluene	21	105	15	50
Trans-1,2-Dichloroethylene	21	105	15	50
Trichloroethylene	20	100	16	50
Trichlorofluoromethane	26	130	12	50
Vinyl Acetate	19	95	11	50
Vinyl Chloride	23	115	19	50
c-1,3-dichloropropene	23	115	19	50
cis-1,2-Dichloroethylene	22	110	20	50
t-1,3-Dichloropropene	24	120	18	50

Samples in Batch: AB84833, AB84834, AB84835, AB84836, AB84837, AB84838, AB84839, AB84840, AB84841, AB84842, AB84843, AB84844, AB84845, AB84846

PJ: 19120014

USEPA Region 1

Weston Solutions, Inc.
START IV
N Billerica, MA

CHAIN OF CUSTODY RECORD

Site #: 0346
Contact Name: Bonnie Mace
Contact Phone: 9778-621-1213

No: 1-121119-080219-0001

Ried Cleaners Site
Lab: NERL/OEME
Lab Phone: 617-918-8640

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0346-0021	SB-04A	Percent Solids (% Solids)	Soil	12/9/2019	14:22	1	40 ml VOA Vial	4 C	N
	0346-0021	SB-04A	VOCs	Soil	12/9/2019	14:22	1	40 ml VOA Vial	MeOH	N
	0346-0022	SB-04B	Percent Solids (% Solids)	Soil	12/9/2019	14:25	1	40 ml VOA Vial	4 C	N
	0346-0022	SB-04B	VOCs	Soil	12/9/2019	14:25	1	40 ml VOA Vial	MeOH	N
	0346-0023	SB-04C	Percent Solids (% Solids)	Soil	12/9/2019	14:28	1	40 ml VOA Vial	4 C	N
	0346-0023	SB-04C	VOCs	Soil	12/9/2019	14:28	1	40 ml VOA Vial	MeOH	N
	0346-0024	SB-04D	Percent Solids (% Solids)	Soil	12/9/2019	14:30	1	40 ml VOA Vial	4 C	N
	0346-0024	SB-04D	VOCs	Soil	12/9/2019	14:30	1	40 ml VOA Vial	MeOH	N
	0346-0025	SB-04E	Percent Solids (% Solids)	Soil	12/9/2019	14:40	1	40 ml VOA Vial	4 C	N
	0346-0025	SB-04E	VOCs	Soil	12/9/2019	14:40	1	40 ml VOA Vial	MeOH	N
	0346-0026	SB-04F	Percent Solids (% Solids)	Soil	12/9/2019	14:42	1	40 ml VOA Vial	4 C	N
	0346-0026	SB-04F	VOCs	Soil	12/9/2019	14:42	1	40 ml VOA Vial	MeOH	N
	0346-0027	SB-05A	Percent Solids (% Solids)	Soil	12/9/2019	14:55	1	40 ml VOA Vial	4 C	N
	0346-0027	SB-05A	VOCs	Soil	12/9/2019	14:55	1	40 ml VOA Vial	MeOH	N
	0346-0028	SB-05B	Percent Solids (% Solids)	Soil	12/9/2019	14:57	1	40 ml VOA Vial	4 C	N
	0346-0028	SB-05B	VOCs	Soil	12/9/2019	14:57	1	40 ml VOA Vial	MeOH	N
	0346-0029	SB-05C	Percent Solids (% Solids)	Soil	12/9/2019	15:00	1	40 ml VOA Vial	4 C	N
	0346-0029	SB-05C	VOCs	Soil	12/9/2019	15:00	1	40 ml VOA Vial	MeOH	N
	0346-0030	SB-05D	Percent Solids (% Solids)	Soil	12/9/2019	15:02	1	40 ml VOA Vial	4 C	N

Special Instructions: Please forward results to OSC Mike Cofsky.	
SAMPLES TRANSFERRED FROM	
CHAIN OF CUSTODY #	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Bonnie Mace	12/11/19 1440	Receiv 12/11/19	14:40 12/11/19	

PN: 19120014


USEPA Region 1
Weston Solutions, Inc.
START IV
N Billerica, MA

CHAIN OF CUSTODY RECORD
Site #: 0346
Contact Name: Bonnie Mace
Contact Phone: 9778-621-1213

No: 1-121119-080219-0001
Ried Cleaners Site
Lab: NERL/OEME
Lab Phone: 617-918-8640

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0346-0030	SB-05D	VOCs	Soil	12/9/2019	15:02	1	40 ml VOA Vial	MeOH	N
	0346-0031	SB-05E	Percent Solids (% Solids)	Soil	12/9/2019	15:12	1	40 ml VOA Vial	4 C	N
	0346-0031	SB-05E	VOCs	Soil	12/9/2019	15:12	1	40 ml VOA Vial	MeOH	N
	0346-0032	SB-05F	Percent Solids (% Solids)	Soil	12/9/2019	15:15	1	40 ml VOA Vial	4 C	N
	0346-0032	SB-05F	VOCs	Soil	12/9/2019	15:15	2	40 ml VOA Vial	MeOH	Y
	0346-0033	SB-06A	Percent Solids (% Solids)	Soil	12/9/2019	15:35	1	40 ml VOA Vial	4 C	N
	0346-0033	SB-06A	VOCs	Soil	12/9/2019	15:35	1	40 ml VOA Vial	MeOH	N
	0346-0034	SB-06B	Percent Solids (% Solids)	Soil	12/9/2019	15:37	1	40 ml VOA Vial	4 C	N
	0346-0034	SB-06B	VOCs	Soil	12/9/2019	15:37	1	40 ml VOA Vial	MeOH	N
	0346-0035	SB-06C	Percent Solids (% Solids)	Soil	12/9/2019	15:40	1	40 ml VOA Vial	4 C	N
	0346-0035	SB-06C	VOCs	Soil	12/9/2019	15:40	1	40 ml VOA Vial	MeOH	N
	0346-0036	SB-06D	Percent Solids (% Solids)	Soil	12/9/2019	15:42	1	40 ml VOA Vial	4 C	N
	0346-0036	SB-06D	VOCs	Soil	12/9/2019	15:42	1	40 ml VOA Vial	MeOH	N
	0346-0037	SB-06E	Percent Solids (% Solids)	Soil	12/9/2019	15:43	1	40 ml VOA Vial	4 C	N
	0346-0037	SB-06E	VOCs	Soil	12/9/2019	15:43	1	40 ml VOA Vial	MeOH	N
	0346-0038	SB-06F	Percent Solids (% Solids)	Soil	12/9/2019	15:45	1	40 ml VOA Vial	4 C	N
	0346-0038	SB-06F	VOCs	Soil	12/9/2019	15:45	1	40 ml VOA Vial	MeOH	N
	0346-0039	SB-106F	Percent Solids (% Solids)	Soil	12/9/2019	15:45	1	40 ml VOA Vial	4 C	N
	0346-0039	SB-106F	VOCs	Soil	12/9/2019	15:45	1	40 ml VOA Vial	MeOH	N

Special Instructions: Please forward results to OSC Mike Cofsky.		SAMPLES TRANSFERRED FROM	
		CHAIN OF CUSTODY #	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Bonnie Mace	12/11/19 1440		14:40 12/11/19	

Lab Phone: 617-918-8640

Special Instructions: Please forward results to OSC Mike Cofsky.

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	 Kevin Sherrill	12/11/19 1440	 [illegible]	14.40 12/11/19	