Hartsdale Village Square Aristocrat Cleaners

Westchester COUNTY

Hartsdale, NEW YORK

PERIODIC REVIEW REPORT

September 2022

NYSDEC Site Number: C360111

Prepared for:

Hartsdale Village Square 2 LLC

2916 8th Avenue, Suite 3C

New York, New York 10039

Prepared by:

EnviroTrac Engineering PE PC

5 Old Dock Road, Yaphank, NY 11980

(631) 924-3001

Revisions to January 2015 Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date

Table of Contents

EnviroTrac

List of Figures

List of Tables

List of Appendices

List of Acronyms

AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CP	Commissioner Policy
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
GHG	Green House Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision

List of Acronyms *(continued)*

RP	Remedial Party
RSO	Remedial System Optimization
SAC	State Assistance Contract
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SSD	Sub-slab Depressurization
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

1.0 INTRODUCTION

Hartsdale Village Square LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in January 2010 to remediate a property (Site) located in Hartsdale, New York (**Figure 1**) as a Volunteer. A figure showing the location and boundaries of the Site subject to BCA is provided in **Appendix A**.

A certificate of completion (COC) dated December 30, 2014, was granted by the NYSDEC. After completion of the remedial work some contamination was left in the subsurface at the Site, which is hereafter referred to as 'remaining contamination." A NYSDEC-approved Site Management Plan (SMP) dated January 2015 was prepared to manage remaining contamination at the Site until the Environmental Easement (EE) is extinguished in accordance with ECL Article 71, Title 36. The SMP presents requirements for the management and maintenance at the Site and includes ongoing site testing and preparation of status reporting. This Periodic Review Report (PRR) addresses the following topics specified in the SMP:

- Identification, assessment and certification of all Engineering Controls and Institutional Controls (ECs/ICs) required by the remedy for the Site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the site during the reporting period in electronic format;
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations of contaminants of concern including a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These include a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period;
- A site evaluation, which includes the following;

- ✓ The compliance of the remedy with the requirements of the Decision Document (DD) dated November 2014;
- ✓ Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
- ✓ Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
- ✓ The overall performance and effectiveness of the remedy.

The site inspection and groundwater testing was performed on August 30, 2022 and represents the initial event since NYSDEC approval of the SMP.

1.1 Site Description

The Site is located in an urban portion of Westchester County, NY in the middle portion of a strip mall, adjacent to a train station, at 212-218 East Hartsdale Avenue. The 0.17-acre Site includes two row house type buildings which make up 80% of the tax parcel and a small paved lot at the rear of the buildings. The northernmost building is a single-story building with a basement that houses a dry-cleaner. The southernmost building is a two (2)-story building with a basement that is occupied by a liquor store.

Surface soils on Site consist of fill material, coarse sand and gravel to about ten feet below the ground surface. An organic layer is present at a depth of 2.0-2.5 feet below grade. Bedrock on-site consists of shale and schist. Outcrops of schist can be seen around the site. Overburden groundwater flows to the south/southeast toward the Bronx River. Depth to groundwater varies greatly depending on season and runoff events. Groundwater is generally found between eight (8) to nine (9) feet below the ground surface or six (6) inches to a foot below the basement slabs.

Contaminants of concern include tetrachloroethene (PCE), cis-1,2-dichloroethene, trichloroethene (TCE) and vinyl chloride. The use of tetrachloroethene (PCE) on-site ceased in March of 2014. The Site is zoned as a commercial property. The use of the Site as a dry-cleaner since the 1970s appears to have led to the site contamination. A flood

event that caused a solvent storage tank to overflow may have also contributed to the contamination.

Measures are in place to prevent exposures to remaining contamination in on-site groundwater, soil and soil vapor.

1.2 Remedial Investigation Results

The remedial investigation (RI) was conducted based on a general understanding of environmental conditions that was established during prior testing of soil, groundwater, soil vapor and indoor air at, and in the immediate vicinity of, the Site.

Soil

A limited number of chemical constituents including mercury, zinc, 4,4'-DDD, 4,4'-DDE and 4,4'-DDT were found at concentrations slightly above the Part 375 unrestricted SCOs. These constituents are not typically associated with dry-cleaning process and likely represent conditions that extend beyond the Site. All results for VOCs, SVOCs, metals, pesticides and PCBs were well below Part 375 restricted-commercial SCOs.

Groundwater

Groundwater is generally found at a depth of approximately ten (10) feet below land surface, allowing for periodic rise and fall in response to precipitation events and periods between. Accordingly, the water table is very shallow with respect to the elevation of the basement spaces at the Site and groundwater has historically infiltrated into that area under extreme conditions. The direction of groundwater is generally to the south at a calculated velocity of less than 1 ft/day.

Four VOCs related to the dry-cleaning process including PCE, TCE, cis-1,2-DCE and VC were detected across the Site during the RI at concentrations exceeding the NY-AWQS. The highest concentrations were found beneath the dry-cleaner at the suspected source area. One detection of 2-butanone was found during the testing at a concentration exceeding the NY-AWQS. Other constituents unrelated to the dry-cleaning process that

were found above the NY-AWQS included benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, iron, magnesium, manganese, lead and sodium.

Soil Vapor and Indoor Air

Testing conducted prior to and during the RI has revealed the presence of chemical constituents associated with the dry-cleaning process as well as other VOCs in soil vapor and indoor air at and in the immediate vicinity of the Site. The predominant compounds were PCE and TCE.

Appendix B provides results of historic testing at the Site in tabular and graphic format.

1.2 Remedial Program Summary

A non-emergency groundwater Interim Remedial Measure (IRM) was implemented at the Site concurrent with the RI activities. The IRM included the introduction of 300 lbs. of chemical reagent (mixed with potable water onsite to create an injectable slurry) beneath the basement of the dry-cleaner within the suspected source area to stimulate the degradation of chemicals associated with the dry-cleaning process that have been found in groundwater across the Site at concentrations exceeding the NY-AWQS. Following the injections, two rounds of groundwater monitoring were conducted to assess performance. As discussed in the Remedial Investigation Report (RIR) dated December 5, 2014, results demonstrated significant declines in PCE and TCE and that geochemical conditions for the continued reduction of COI concentrations had been stimulated.

The site was remediated in accordance with the remedy selected by the NYSDEC in the DD. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the Track 4 selected remedy that consists of restricted use with site-specific soil cleanup objectives (SCOs):

1. The remedial action consisted of stimulating in-situ chemical destruction of chemicals related to the dry-cleaning process that have been found in soil, soil vapor and groundwater at the Site;
2. ECs consist of existing concrete and asphalt cover extending across the entire Site;

3. Execution and recording of an EE to restrict land use and prevent future exposure to any contamination remaining at the Site;
4. Development and implementation of a SMP for long term management of remaining contamination as required by the EE, which includes plans for: (1) ICs/ECs, (2) monitoring, (3) operation and maintenance and (4) reporting; and
5. Periodic certification of the institutional and engineering controls listed above.

1.3 Environmental Easement

In accordance with the requirements of New York State Environmental Conservation Law (ECL) Article 71, Title 36, an environmental easement has been established as a remedy component. To protect public health and the environment, the environmental easement is used to restrict the use of the property to a specified category and requires the site management of engineering controls. Control Elements include the following:

- Ground Water Use Restriction;
  - ✓ Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
- Land Use Restriction:
  - The Site is limited to commercial, industrial use.
- Cover System;
  - ✓ A site cover currently exists and will be maintained to allow for commercial use of the Site;
  - ✓ Any site redevelopment will maintain a site cover, which may consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs); and
  - ✓ Where a soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

- Institutional Controls:
  - ✓ Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
  - ✓ Allows the use and development of the controlled property for commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
  - ✓ Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
  - ✓ Requires compliance with the Department approved Site Management Plan.

Site Management Plan Including an Institutional and Engineering Control Plan, a Monitoring Plan and an Operation and Maintenance (O&M) Plan

- Institutional and Engineering Control Plan:
  - ✓ Identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:
    - Institutional Controls: The Environmental Easement.
    - Engineering Controls: The Site cover system
  - ✓ The plan includes, but may not be limited to:
    - An Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
    - A provision for the reevaluation of soil vapor intrusion in the existing on-site buildings and evaluations for any new buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
    - Descriptions of the provisions of the environmental easement including any land use, and groundwater restrictions;
    - Provisions for the management and inspection of the identified engineering controls;

  - Provisions for additional applications of the ISCR amendment to address a rise or plateauing of contaminant concentrations or to ensure complete degradation of breakdown products;
  - Maintaining site access controls and Department notification; and
  - The steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

- Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
  - ✓ Monitoring of groundwater to assess the performance and effectiveness of the remedy;
  - ✓ Monitoring for vapor intrusion as may be required by the Institutional and Engineering Control Plan discussed above; and
  - ✓ A schedule of monitoring and frequency of submittals to the Department.
- Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, optimization, monitoring, inspection and reporting of any mechanical or physical components of the remedy. The plan includes, but is not limited to:
  - ✓ Compliance monitoring of treatment systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting;
  - ✓ Maintaining site access controls and Department notification; and
  - ✓ Providing the Department access to the Site and O&M records.

2.0 REMEDIAL PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The following assessment of the remedial program's status and provides conclusions regarding the efficacy of remedial measures in achieving the objectives for the Site, as outlined in the Site Management Plan. The assessment is based on results of a site inspection and a concurrent groundwater sampling event.

2.1 Site Inspection

The site cover consists of a portion of a commercial strip mall building structure with a concrete floor basement and an asphalt paved exterior area. Since the COC was issued there have been no changes that would compromise the intent of these structures with respect to conditions presented in the SMP. Documentation pertaining to the site inspection conducted on August 30, 2022 is provided in **Appendix C**.

2.2 Groundwater Monitoring

Groundwater samples were collected from six existing monitoring wells (MW-1, MW-2, MW-2D, MW-5, MW-7 and MW-8) as specified in the SMP. Groundwater monitoring event forms are provided in **Appendix D**. Samples from these wells were sent to SGS, Dayton, NJ for testing of volatile organic compounds (VOCs). In addition, a set of samples was collected at well MW-2 (in proximity to the suspected spill location in the dry cleaner basement) and analyzed for a suite of compounds (additional analytical parameters) to assess any continuing effects of chemical reagent injections that were performed as an IRM in 2013 to promote the degradation of constituents (e.g. PCE) in groundwater associated with historic dry cleaning. The laboratory results were validated by a third party (EDS, Inc., Palm Beach Gardens, FL) and a data usability summary report (DUSR) was prepared. The SGS and EDS reports are provided in **Appendices E and F**, respectively.

Testing results are provided in the following **Tables 1 through 5**.

Figure 2 provides groundwater results for VOCs associated with historic dry-cleaning and depicts the general direction of groundwater flow on August 30, 2022. Depth to water measurements were recorded at the sampled wells and at other existing monitoring wells. The general direction of groundwater flow on August 30, 2022 was southerly, consistent

with prior remedial investigation findings. A slight upward vertical flow potential was noted based on groundwater elevation measurements recorded at wells MW-2 and MW-D.

VOC Results

Comparison of results from the August 2022 testing to historic data reveal declining concentrations of the constituents of concern. During the August 2022 an increase of breakdown contaminates was noted along with a decrease in parent contaminates, this shows ongoing breakdown of the primary contaminate PCE. Total CVOCs at MW-2 installed at the suspected former spill location remain elevated. However, a 75% decline in concentrations has been observed since the IRM was conducted and the “hot spot” area appears to be very limited based on significantly lower concentrations in the other monitored wells, including the deeper well installed at that location (MW-2D). Overall, concentrations at the downgradient property boundary (MW-8) have also exhibited a significant decline since the first test was conducted at that location in 2013.

Additional Analytical Parameters

FMC Environmental Solutions (FMC) EHC® ISCR Reagent (EHC) EHC is a carbon/zero-valent iron (ZVI) blend that promotes degradation via microbial (i.e., classic sequential dechlorination) and abiotic (ZVI-induced hydrogenolysis) pathways. A suite of “additional analytical parameters” were tested to assess ongoing effects of the EHC injections conducted in 2013. Results of that testing are provided in **Table 4**.

According to FMC EHC has an estimated treatment life of 3 years following subsurface placement. Considering the time that has passed, it would be expected that treatment efficacy would presently be fully depleted. In general, the additional testing results support that hypothesis, however iron levels remain relatively high compared to pre- and post-injection test results, suggesting that continuing reagent-related degradation may be occurring at the MW-2 location.

2.3 Compliance and Recommendations

Based on the above-described inspection, monitoring and sampling results the implemented remedial measures continue to achieve the objectives for the Site, as outlined in the SMP.

3.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN COMPLIANCE REPORT

3.1 IC/EC Compliance

Since remaining contamination exists at the Site, ICs and ECs are required to protect human health and the environment. IC compliance is conducted on an annual basis by performing a site inspection to determine that activities conducted at the Site are not in violation with the Environmental Easement. EC compliance is conducted on an annual basis for groundwater monitoring and site cover inspection.

3.1.1 Institutional Controls

Adherence to the ICs on the Site is required by the Environmental Easement. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. These ICs include:

- A soil management plan;
- Groundwater use restriction;
- Land use restriction;
- Monitoring plan;
- Site management plan; and
- An IC/EC Plan.

No changes in Site use were noted during the site visit that would not be allowed under the imposed institutional control. Therefore, the adherence to the Environmental Easement was achieved.

3.1.2 Engineering Controls

Engineering controls that have been imposed include a site cover system and includes:

- A provision for reevaluation of soil vapor intrusion in the existing on-site buildings and evaluations for any new buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;

- Provisions for additional applications of the ISCR amendment to address a rise or plateauing of contaminant concentrations or to ensure complete degradation of breakdown products; and
- Maintaining site access controls and Department notification.

Site Cover

The Site cover inspection was conducted on August 30, 2022. No changes to the use of the building at the Site were observed. No indications that an excavation occurred at the Site since the COC, and no significant cracks or holes were observed in the building basement floor, asphalt parking lot, or surrounding concrete pavement. It is EnviroTrac opinion that the asphalt parking lot should be seal coated to ensure the longevity of the cover system. The Site Inspection Form and photographic documentation is provided in **Appendix C**. The cover system remains in good condition; therefore, it is protecting human health and the environment.

Groundwater Monitoring

Groundwater monitoring was assessed during August 2022 annual event as prescribed in the SMP to determine whether contaminant concentrations are rising or plateauing since the IRM was conducted in October 2013. Based on the results presented in Section 2.2 neither of these responses has been observed; in contrast a general declining trend is evident across the Site. As such the potential for soil vapor intrusion has also declined in comparison to conditions formerly noted and additional application of ISCR amendment at this time is not warranted.

3.2 Corrective Measures

No areas of non-compliance were noted. Based on the above inspections, monitoring, and sampling results, the Site ICs and ECs are in compliance with the SMP for the Site. Therefore, no corrective measures are recommended for the ICs and ECs.

3.3 Conclusions and Recommendations

The ICs/ECs are properly operating and being maintained at the Site in compliance with the Environmental Easement and SMP. It is EnviroTrac opinion that the asphalt parking lot should be seal coated to ensure the longevity of the cover system. EnviroTrac recommends that site inspection, groundwater monitoring and PRR reporting described in the SMP continue on an annual schedule.

3.4 IC/EC Certification

For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- *The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*
- *The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any Site management plan for this control;*
- *Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*
- *If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;*
- *Use of the Site is compliant with the environmental easement;*
- *The engineering control systems are performing as designed and are effective;*
- *To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practices;*
- *The information presented in this report is accurate and complete; and*

- *No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid.*

I, DALE KONAS, certify that I am currently a NYS registered professional engineer and that this Periodic Review Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

_____ P.E.

9/29/22 DATE

The IC/EC Certification Form for the Reporting Period is provided in **Appendix G.**

4.0 MONITORING PLAN COMPLAINCE REPORT

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the site, the soil cover system, and all affected site media.

4.1 Components of the Monitoring Plan

Site monitoring consists of:

1) Inspection of site cover including concrete flooring associated with the building and paving at exterior location to the west of the building will be conducted to determine if any alterations or defects are present that could compromise the efficacy of the remedy;
2) Groundwater testing to evaluate contaminant concentration trending and results of the 2013 ISCR IRM; and
3) Reporting of results to the NYSDEC.

4.2 Monitoring Deficiencies

No monitoring plan deficiencies were noted.

4.3 Conclusions and Recommendations

Current compliance with the site monitoring plan is demonstrated based on results provided in Sections 2 and 3. EnviroTrac recommends continued site inspection, groundwater monitoring and PRR reporting described in the SMP.

5.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE REPORT

The site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/ soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not required.

6.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

6.1 Compliance with the SMP

No areas of non-compliance were noted. Based on the above inspections, monitoring, and sampling results, the Site ICs and ECs are in compliance with the SMP for the Site. No changes in the use of the Site were noted during the Reporting Period.

6.2 Effectiveness of the Remedial Program

The remedial program for the Site is governed by three (3) plans provided in the SMP.

1. An Engineering and Institutional Control Plan for implementation and management of EC/ICs.
    - Engineering Controls - A site cover system is in place and meets criteria specified in the SMP
    - Institutional Controls – in-place controls include an environmental easement with groundwater use restrictions and a use restriction allowing commercial use of the Site, but preventing less restrictive land use (i.e., unrestricted or residential use).
2. A Monitoring Plan for implementation of site monitoring to assess continuing attenuation of dry-cleaning related chemicals in groundwater. These activities will continue:
    - until residual groundwater concentrations are found to be consistently below NYSDEC standards;
    - or have become asymptotic at an acceptable level over an extended period;
    - If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

    In the period since SMP approval, groundwater concentrations have been found to remain above NYSDEC standards but have exhibited declining (attenuating) chemical constituent levels. Concentrations at the downgradient site boundary have not changed significantly.

3. An Operation and Maintenance Plan for implementation of remedial collection, containment, treatment, and recovery systems (including, where appropriate, preparation of an Operation and Maintenance Manual for complex systems).

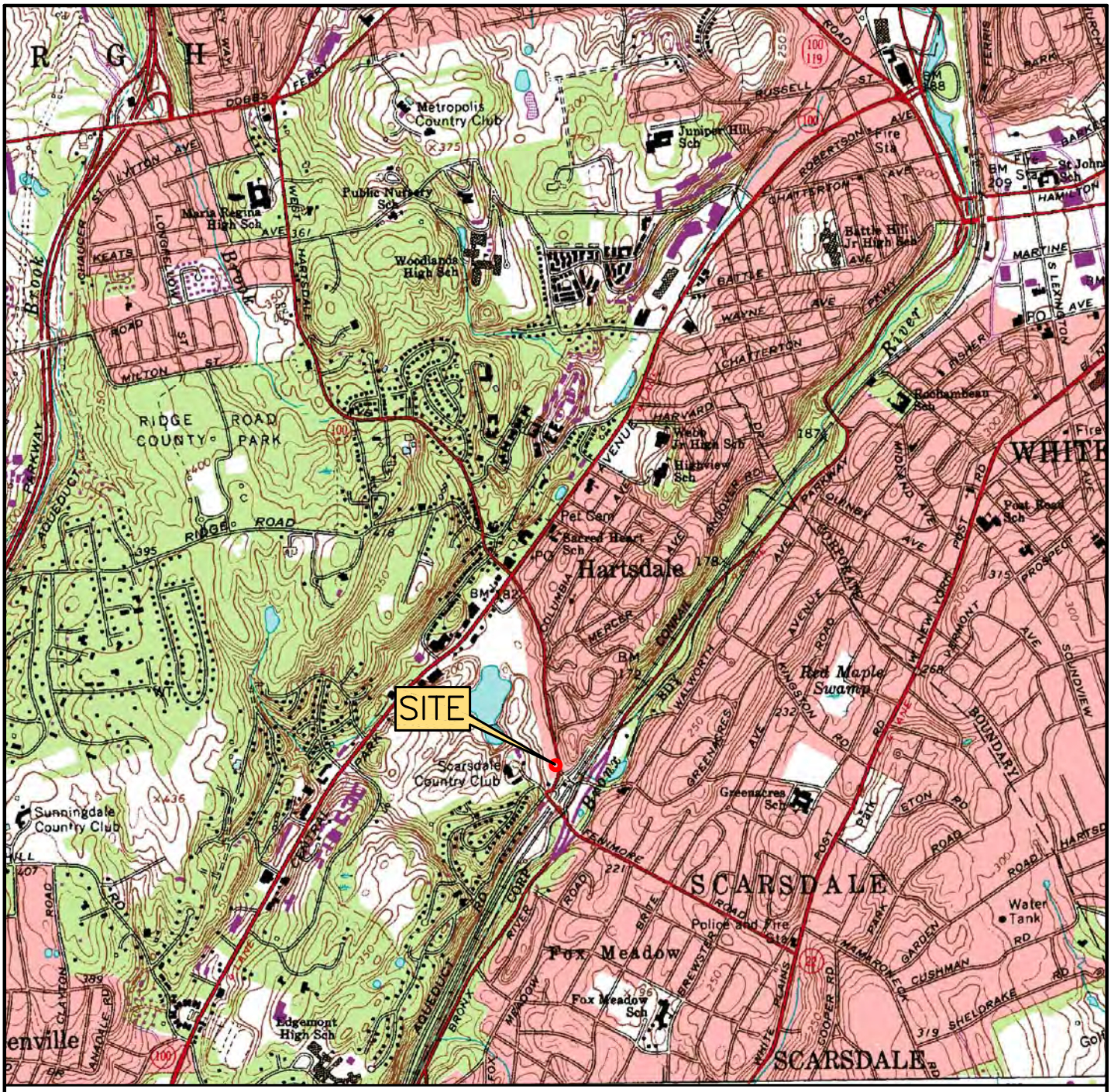
   The site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/ soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in the SMP.

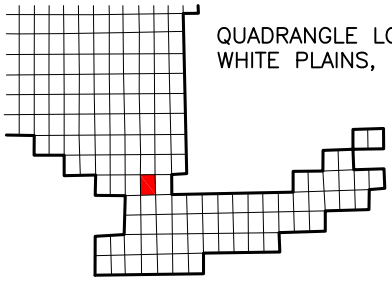
Based on the results of the 2022 site inspection and groundwater sampling the remedial program is effective in addressing the criteria specified in the SMP.

6.3 Recommendations

Future PRR submittals should be provided to the NYSDEC in accordance with scope of work and scheduling provided in the SMP.

FIGURES





QUADRANGLE LOCATION:
WHITE PLAINS, NEW YORK

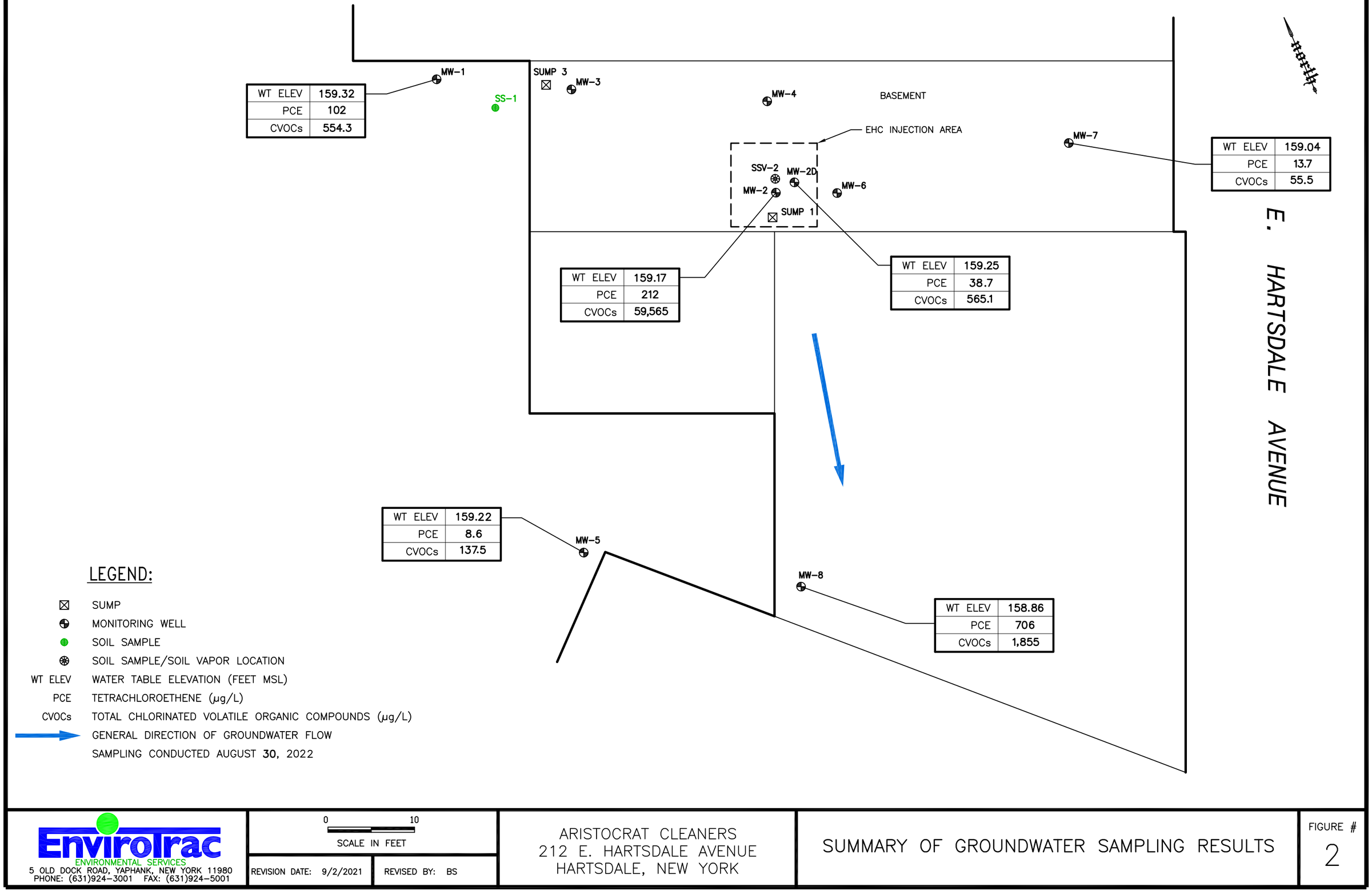
APPROXIMATE ELEVATION:
175–180 FT.

SOURCE:
USGS 7.5 MINUTE SERIES

N
W E
S

0 2,000 6,000 FEET
1,000 4,000

FIGURE #	SITE LOCATION MAP	DRAWN BY: B.S.	EnviroTrac ENVIRONMENTAL SERVICES
1	ARISTOCRAT CLEANERS 212 E. HARTSDALE AVENUE HARTSDALE, NEW YORK	REVISION DATE: 8/27/2021	5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980 PHONE: (631)924–3001 FAX: (631)924–5001



EnviroTrac
ENVIRONMENTAL SERVICES
5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980
PHONE: (631)924-3001 FAX: (631)924-5001

0 10
SCALE IN FEET

REVISION DATE: 9/2/2021 REVISED BY: BS

ARISTOCRAT CLEANERS
212 E. HARTSDALE AVENUE
HARTSDALE, NEW YORK

SUMMARY OF GROUNDWATER SAMPLING RESULTS

FIGURE # 2

TABLES

Table 1: Water Level Elevation Measurements

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

WELL NO.	MW-1			MW-2			MW-2D			MW-3			MW-4		
LOCATION	Outdoor			Basement			Basement			Basement			Basement		
BOREHOLE DIAMETER (in.)	2			2			3			2			2		
CASING/SCREEN DIAMETER (in.)	1			1			1.25			1			1		
TOTAL WELL DEPTH (ft.)	18.5			10.5			18.0			10.5			10.5		
SCREEN INTERVAL (ft.)	8.5 - 18.5			0.5 - 10.5			13 - 18			0.5 - 10.5			0.5 - 10.5		
MP ELEVATION (ft./msl.)	169.15			162.70			161.86			162.54			162.71		
SCREEN INTERVAL (ft./msl.)	151-161			152-162			144-149			152-162			152-162		
SAMPLING DATE	DTW	LNAPL	ELEV	DTW	LNAPL	ELEV	DTW	LNAPL	ELEV	DTW	LNAPL	ELEV	DTW	LNAPL	ELEV
8/12/2008 (2)	9.40	0.00	159.75	0.50	0.00	162.20		NA		0.50	0.00	162.04	0.50	0.00	162.21
10/11/2011	8.70	0.00	160.45	1.33	0.00	161.37		NA		1.85	0.00	160.69	2.29	0.00	160.42
2/6/2013	8.61	0.00	160.54	2.70	0.00	160.00	2.01	0.00	159.85	2.50	0.00	160.04	2.91	0.00	159.80
2/27/2013	8.39	0.00	160.76	2.05	0.00	160.65	1.55	0.00	160.31	NM	-	-	2.48	0.00	160.23
11/12/2013	10.02	0.00	159.13	3.77	0.00	158.93	2.78	0.00	159.08	3.50	0.00	159.04	3.73	0.00	158.98
2/26/2014	NM	-	-	2.86	0.00	159.84	3.65	0.00	158.21	3.53	0.00	159.01	3.81	0.00	158.90
8/19/2021	7.95	0.00	161.20	3.02	0.00	159.68	2.09	0.00	159.77	NM	-	-	2.96	0.00	159.75
9/22/2022	9.83	0.00	159.32	3.53	0.00	159.17	2.61	0.00	159.25	NM	-	-	NM	-	-

WELL NO.	MW-5			MW-6			MW-7			MW-8		
LOCATION	Outdoor			Basement			Basement			Basement (1)		
BOREHOLE DIAMETER (in.)	2						2					
CASING/SCREEN DIAMETER (in.)	1			1			1			2		
TOTAL WELL DEPTH (ft.)	18.5			10.5			10.5			8.0		
SCREEN INTERVAL (ft.)	8.5 - 18.5			0.5 - 10.5			0.5 - 10.5			3 - 8		
MP ELEVATION (ft./msl.)	169.50			162.88			162.87			160.91		
SCREEN INTERVAL (ft./msl.)	151-161			152-162			152-162			153-158		
SAMPLING DATE	DTW	LNAPL	ELEV	DTW	LNAPL	ELEV	DTW	LNAPL	ELEV	DTW	LNAPL	ELEV
8/12/2008 (2)	10.25	0.00	159.25	0.50	0.00	162.38	0.50	0.00	162.37		NA	
10/11/2011	9.47	0.00	160.03	2.69	0.00	160.19	2.59	0.00	160.28		NA	
2/6/2013	9.95	0.00	159.55	3.25	0.00	159.63	3.17	0.00	159.70	1.81	0.00	159.10
2/27/2013	9.18	0.00	160.32	NM	-	-	NM	-	-	1.06	0.00	159.85
11/12/2013	10.77	0.00	158.73	4.11	0.00	158.77	4.02	0.00	158.85	2.26	0.00	158.65
2/26/2014	NM	-	-	4.24	0.00	158.64	2.29	0.00	160.58	2.24	0.00	158.67
8/19/2021	9.84	0.00	159.66	NM	-	-	3.33	0.00	159.54	1.53	0.00	159.38
9/22/2022	10.28	0.00	159.22	NM	-	-	3.83	0.00	159.04	2.05	0.00	158.86

Notes:
MP: Top of casing measuring point
DTW: Depth to water below measuring point (ft.)
LNAPL: Light non-aqueous phase liquid thickness (ft.)
ELEV: Groundwater elevation (ft./msl)
(1): Liquor store - all other "Basement" samples are located in the dry cleaner
(2): Measurements recorded by Tapash, Hammonton, NY
NA: Not applicable, well not installed
NM: Not measured.

Table 2: Summary of Groundwater Sampling Field Parameters

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

11-Oct-11

WELL NO.		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
FIELD PARAMETER	UNITS	RESULTS						
Turbidity	NTU	NS	5	13	NS	NS	NS	9
Specific Conductance	uS/cm	NS	655	641	NS	NS	NS	1046
pH	standard units	NS	11.7	9.1	NS	NS	NS	9.1
ORP	mV	NS	-82	-90	NS	NS	NS	-102
Temperature	°C	NS	22.2	20.4	NS	NS	NS	21.1
Dissolved Oxygen	mg/l	NS	1.5	0.5	NS	NS	NS	5.0

27-Feb-13

WELL NO.		MW-1	MW-2	MW-2D	MW-4	MW-5	MW-8
FIELD PARAMETER	UNITS	RESULTS					
Turbidity	NTU	7	11	15	10	10	37
Specific Conductance	uS/cm	735	518	1050	1750	418	373
pH	standard units	6.8	7.2	7.3	7.0	7.0	7.4
ORP	mV	-14	78	-68	-69	-5	-93
Temperature	°C	12.5	17.0	18.9	16.4	11.3	15.5
Dissolved Oxygen	mg/l	0.5	1.1	0.7	0.2	0.5	0.3

12-Nov-13

WELL NO.		MW-2	MW-2D	MW-8
FIELD PARAMETER	UNITS	RESULTS		
Turbidity	NTU	28	NM	NM
Specific Conductance	uS/cm	2,260	1,030	340
pH	standard units	6.0	UJ	7.1
ORP	mV	-33	-118	-72
Temperature	°C	20.7	18.9	18.8
Dissolved Oxygen	mg/l	0.6	2.0	0.9

26-Feb-14

WELL NO.		MW-2	MW-2D	MW-8
FIELD PARAMETER	UNITS	RESULTS		
Turbidity	NTU	8	5	16
Specific Conductance	uS/cm	953	979	967
pH	standard units	6.7	7.1	7.0
ORP	mV	-46	-97	-63
Temperature	°C	14.9	14.8	14.6
Dissolved Oxygen	mg/l	0.2	1.0	0.4

19-Aug-21

WELL NO.		MW-1	MW-2	MW-2D	MW-5	MW-7	MW-8
FIELD PARAMETER	UNITS	RESULTS					
Turbidity	NTU	78	58	52	81	38	29
Specific Conductance	uS/cm	361	869	1,090	498	1,180	1,100
pH	standard units	6.5	6.0	6.8	7.6	6.5	6.4
ORP	mV	-80	28	-85	11	72	-10
Temperature	°C	22.2	22.1	19.6	22.7	21.3	20.8
Dissolved Oxygen	mg/l	0.1	0.1	0.04	0.9	1.1	0.03

30-Aug-22

WELL NO.		MW-1	MW-2	MW-2D	MW-5	MW-7	MW-8
FIELD PARAMETER	UNITS	RESULTS					
Turbidity	NTU	107	318	0	1000	485	358
Specific Conductance	uS/cm	0.391	0.840	0.857	0.568	1.16	0.456
pH	standard units	7.93	7.22	8.34	7.88	8.0	7.96
ORP	mV	-43	-81	-34	-98	37	-92
Temperature	°C	21.84	24.51	23.07	18.87	25.2	24.84
Dissolved Oxygen	mg/l	1.75	0.82	2.91	1.22	2.44	1.68

Notes:
EHC Injections conducted on October 10, 2013.
NS: Well was not sampled.
NM: Not Measured.
Measurements represent final set taken prior to sample collection.

Table 3: Groundwater Sampling Results - VOCs

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

Well Name		MW-1	MW-2	MW-2D	MW-5	MW-7	MW-8	DUP (1)	Trip Blank
Compound	**AWQS (ug/l)**	**8/30/2022**	**8/30/2022**	**8/30/2022**	**8/30/2022**	**8/30/2022**	**8/30/2022**	**8/30/2022**	**8/30/2022**
VOCs (ug/l)									
1,1,1-Trichloroethane	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,1,2,2-Tetrachloroethane	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,1,2-Trichloroethane	**1**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,1-Dichloroethane	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,1-Dichloroethene	**5**	1 U	100 U	**1.8**	1 U	1 U	5 U	5 U	1 U
1,2,3-Trichlorobenzene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,2,4-Trichlorobenzene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,2-Dibromo-3-chloropropane	**0.04**	2 U	200 U	2 U	2 U	2 U	10 U	10 U	2 U
1,2-Dibromoethane	**0.0006**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,2-Dichlorobenzene	**3**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,2-Dichloroethane	**0.6**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,2-Dichloropropane	**1**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,3-Dichlorobenzene	**3**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
1,4-Dichlorobenzene	**3**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
2-Butanone (MEK)	**50**	10 U	1000 U	1 U	10 U	10 U	50 U	50 U	10 U
2-Hexanone	**50**	5 U	500 U	5 U	5 U	5 U	25 U	25 U	5 U
4-Methyl-2-pentanone(MIBK)	**-**	5 U	500 U	5 U	5 U	5 U	25 U	25 U	5 U
Acetone	**50**	10 U	1000 U	10 U	10 U	10 U	50 U	50 U	10 U
Benzene	**1**	0.5 U	50 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Bromochloromethane	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Bromodichloromethane	**50**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Bromoform	**50**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Bromomethane	**5**	2 U	200 U	2 U	2 U	2 U	10 U	10 U	2 U
Carbon disulfide	**-**	2 U	200 U	2 U	2 U	2 U	10 U	10 U	2 U
Carbon tetrachloride	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Chlorobenzene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Chloroethane	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Chloroform	**7**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Chloromethane	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
cis-1,2-Dichloroethene	**5**	**414**	**54,800**	**480**	**122**	**39.5**	**714**	**711**	1 U
cis-1,3-Dichloropropene	**0.4***	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Cyclohexane	**-**	5 U	500 U	5 U	5 U	5 U	25 U	25 U	5 U
Dibromochloromethane	**50**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Dichlorodifluoromethane	**5**	2 U	200 U	2 U	2 U	2 U	10 U	10 U	2 U
Ethylbenzene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Freon 113	**5**	5 U	500 U	5 U	5 U	5 U	25 U	25 U	5 U
Isopropylbenzene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
m,p-Xylene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Methyl Acetate	**-**	5 U	500 U	5 U	5 U	5 U	25 U	25 U	5 U
Methyl Tert Butyl Ether	**10**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Methylcyclohexane	**-**	5 U	500 U	5 U	5 U	5 U	25 U	25 U	5 U
Methylene chloride	**5**	2 U	200 U	2 U	2 U	2 U	10 U	10 U	2 U
o-Xylene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Styrene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Tetrachloroethene	**5**	**102**	**212**	**38.7**	**8.6**	**13.7**	**706**	**699**	1 U
Toluene	**5**	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
trans-1,2-Dichloroethene	**5**	**3.3**	100 U	**1.9**	1 U	1 U	**5**	5 U	1 U
trans-1,3-Dichloropropene	**0.4***	1 U	100 U	1 U	1 U	1 U	5 U	5 U	1 U
Trichloroethene	**5**	**19.1**	**163**	**12.7**	**5.2**	**2.3**	**328**	**325**	1 U
Trichlorofluoromethane	**5**	2 U	200 U	2 U	2 U	2 U	10 U	10 U	2 U
Vinyl chloride	**2**	**15.9**	**4,390**	**30**	**1.7**	1 U	**102**	**101**	1 U
Xylene (total)	**5**	1 U	100 U	0.65 U	1 U	1 U	5 U	5 U	1 U

Notes:
ug/l: micrograms per liter.
AWQS: Ambient Water Quality Standard or Guidance Value (TOGS 1.1.1).
Result exceeds the specified citeria.
U qualifier: Not detected relative to the noted laboratory reporting limit.
J qualifier: Estimated value.
ND: no detections.
(1): Duplicate of sample MW-1
*: Applies to the sum of cis- and trans-1,3-dichloropropene.

Table 4: Summary of Groundwater Sampling Results - Additional Analytical Parameters

Airstocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION	MW-2					MW-2D			MW-8		
SAMPLING DATE	27-Feb-13	12-Nov-13	26-Feb-14	19-Aug-21	30-Aug-22	27-Feb-13	12-Nov-13	26-Feb-14	27-Feb-13	12-Nov-13	26-Feb-14
Constituent	Result					Result			Result		
Chloride	98	290	190	189	199	130	120	120	28	18	67
Dissolved Iron	NA	NA	13.7	NA	NA	NA	NA	5.36	NA	NA	6
Iron, Total	0.296	61.8	16.6	19.8	55300	1.76	21.4	9.37	3.37	6.94	10.2
Magnesium, Total	4.75	21.5	6.12	9.3	11100	23.3	21.7	24.4	4.05	4.12	5.16
Manganese, Total	0.178	3.01	0.458	0.854	1110	0.804	1.437	0.868	0.728	0.956	1.132
Nitrogen, Nitrate	0.469	0.043 J	0.186	0.11 U	0.11 U	0.205	0.037 J	0.342 J	0.102	0.033 J	0.054 J
Nitrogen, Nitrate/Nitrite	NA	0.27	0.18	0.023	0.1 U	NA	0.18	0.34 J	NA	0.033 J	0.054 J
Total Nitrogen	NA	11	2.1	0.1 U	NA	NA	2.7	0.95	NA	1.3	0.95
Nitrogen, Total Kjeldahl	NA	9.61	1.88	NA	NA	NA	2.53	0.609	NA	1.27	0.954
Sulfate	35	10 U	13	25.7	38.9	58	21	47	8.8 J	10 U	10 U
Alkalinity, Total (mg CaCO3/L)	115	353	126	154	5 U	211	252	208	105	128	90.2
Biological Oxygen Demand, 5 day	2 U	530	43	3.7	3.3	5.4	20	2.8	2	2 U	2.7
Calcium, Total	59.4	165	96.4	84.3	83200	91.8	83.7	86.7	43.4	41.6	59.5
Chemical Oxygen Demand	9.1 J	1,300	86	285	42.5	21	50	9.2 J	37	27	21
Dissolved Organic Carbon	3.7	420	22	4.1	2.8	3.8	6.3	2.3	4.6	4.4	5.1
Hardness	170	517.8	265.8	400	250	300	307.8	317.2	110	119.2	169.5
Total Organic Carbon	4.4	416	26	5.3	6.9	3.5	7.91	2.66	5.3	9.48	5.35
Methane (ug/l)	NA	1,630 J	1,270	1,830	1390	NA	317	252	NA	1,090	891
Ethene (ug/l)	NA	297 J	220	94.4	172	NA	2	10	NA	238	27.3
Ethane (ug/l)	NA	122 J	78	139	157	NA	3	4	NA	174	43.2

Notes:
EHC Injections conducted on October 10, 2013.
All results in mg/l - except as noted.
U: Compound was not detected relative to the indicated limit.
J: Estimated value.
NA: Not analyzed.

J

Table 5: Summary of Groundwater Sampling Results - Chemicals of Interest

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

WELL DESIGNATION		MW-1			MW-2					
SCREEN INTERVAL (ft msl)		151-161			152-162					
SCREEN INTERVAL (ft bg)		0-10			0.5-10.5					
LOCATION		OUTDOOR			DRY CLEANER BASEMENT					
SAMPLING DATE		27-Feb-13	19-Aug-21	30-Aug-22	11-Oct-11	27-Feb-13	12-Nov-13	26-Feb-14	19-Aug-21	30-Aug-22
Volatile Organics (VOCs)	NY-AWQS	Result			Result					
Tetrachloroethene	5	170	14.5	102	13,000 J	13,000	17,000	730	7,070	212
Trichloroethene	5	40	8.4	19.1	4,800 J	5,400	6,700	250 U	6,930	163
cis-1,2-Dichloroethene	5	310	162	414	5,500 J	6,000	88,000	40,000	14,800	54,800
trans-1,2-Dichloroethene	5	12 U	0.97 J	3.3	300 U	620 U	5,000 U	1,200 U	100 U	100 U
1,1-Dichloroethene	5	2.5 U	1 U	1 U	200 U	120 U	1,000 U	250 U	100 U	1 U
Vinyl chloride	2	57	21.4	15.9	580 J	470	3,600	1,400	1,030	4,390
Total VOCs		577	207	554	23,880	24,870	115,300	42,130	29,830	59,565

WELL DESIGNATION		MW-2D					MW-3	MW-4	MW-5		
SCREEN INTERVAL (ft msl)		144-149					152-162	152-162	151-161		
SCREEN INTERVAL (ft bg)		13-18					0.5-10.5	0.5-10.5	0-10		
LOCATION		DRY CLEANER BASEMENT					DRY CLEANER BASEMENT	DRY CLEANER BASEMENT	OUTDOOR		
SAMPLING DATE		27-Feb-13	12-Nov-13	26-Feb-14	19-Aug-21	30-Aug-22	11-Oct-11	27-Feb-13	27-Feb-13	19-Aug-21	30-Aug-22
Volatile Organics (VOCs)	NY-AWQS	Result					Result	Result	Result		
Tetrachloroethene	5	42	8.4	7.8 U	72.3	38.7	3.8	0.5 U	160	10.3	8.6
Trichloroethene	5	23	7.2	6.6	53.9	12.7	2	0.46	24	3.4	5.2
cis-1,2-Dichloroethene	5	800	180	220	42.5	480	9.9	10	60	32.5	122
trans-1,2-Dichloroethene	5	25 U	12 U	10 U	1 U	1.9	0.39	2.5 U	6.2 U	0.63 J	1 U
1,1-Dichloroethene	5	5 U	2.5 U	2 U	1 U	1.8	0.5 U	0.5 U	1.2 U	1 U	1 U
Vinyl chloride	2	18	18	16	5.3	30	3.2	0.83	0.97	1.2	1.7
Total VOCs		883	214	243	174	565	19	11	245	48	138

WELL DESIGNATION		MW-7			MW-8				
SCREEN INTERVAL (ft msl)		152-162			153-158				
SCREEN INTERVAL (ft bg)		0.5-10.5			3-8				
LOCATION		DRY CLEANER BASEMENT			LIQUOR STORE BASEMENT				
SAMPLING DATE		11-Oct-11	19-Aug-21	30-Aug-22	27-Feb-13	12-Nov-13	26-Feb-14	19-Aug-21	30-Aug-22
Volatile Organics (VOCs)	NY-AWQS	Result			Result				
Tetrachloroethene	5	98	51.5	13.7	2,000	370	1.2 U	5.7	706
Trichloroethene	5	20	27.8	2.3	760	65	0.44 J	4.5	328
cis-1,2-Dichloroethene	5	160	66.7	39.5	1,200	1,100	200 J	583	711
trans-1,2-Dichloroethene	5	1.2	1 U	1 U	120 U	62 U	6.2 U	2	5
1,1-Dichloroethene	5	0.22	1 U	1 U	25 U	12 U	1.2 U	1 U	5 U
Vinyl chloride	2	0.26	1 U	1 U	230	1,200	180 J	196	102
Total VOCs		279.68	146	55.5	4,190	2,735	380	791	1855

Notes:
All results in ug/l.
EHC Injections conducted on October 10, 2013.
U: Compound was not detected relative to the indicated limit.
J: Estimated value.
NY-AWQS: New York State Ambient Water Quality Standard, TOGS 1.1.1.
msl: Mean sea level.
bg: Below the dry cleaner/liquor store basement floor or outdoor land surface.
(1): Sum of the indicated compounds.

APPENDICES

APPENDIX A

Site and Property Boundary Map

EnviroTrac


Hartsdale Village Square, BCP Site # C360111
Fisher St
Aqueduct Rd
Greenacres Ave
Site Boundary and Property Boundary
Dry Cleaner Building Boundary
Liquor Store
275 ft
© 2010 Google
Google

APPENDIX B

Historic Site Testing Results

EnviroTrac

FIGURES

AERIAL PHOTOGRAPH

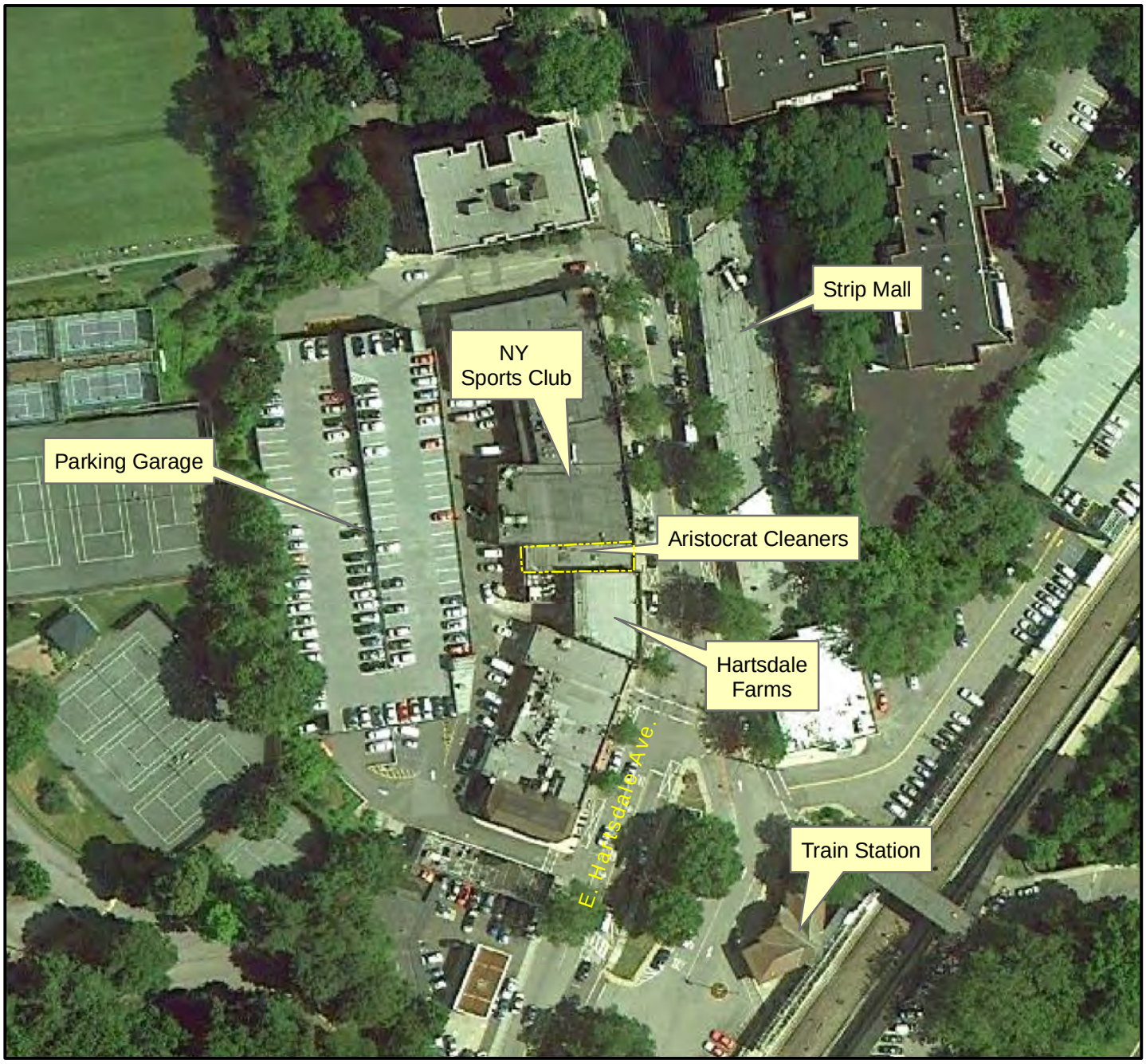


Figure 1-1
Site Location Map

Aristocrat Cleaners
212 E. Hartsdale Ave.
Hartsdale, NY

N
W E
S

EnviroTrac
Environmental Services
5 Old Dock Road
Yaphank, NY 11980
P: 631-924-3001 F:631-924-5001

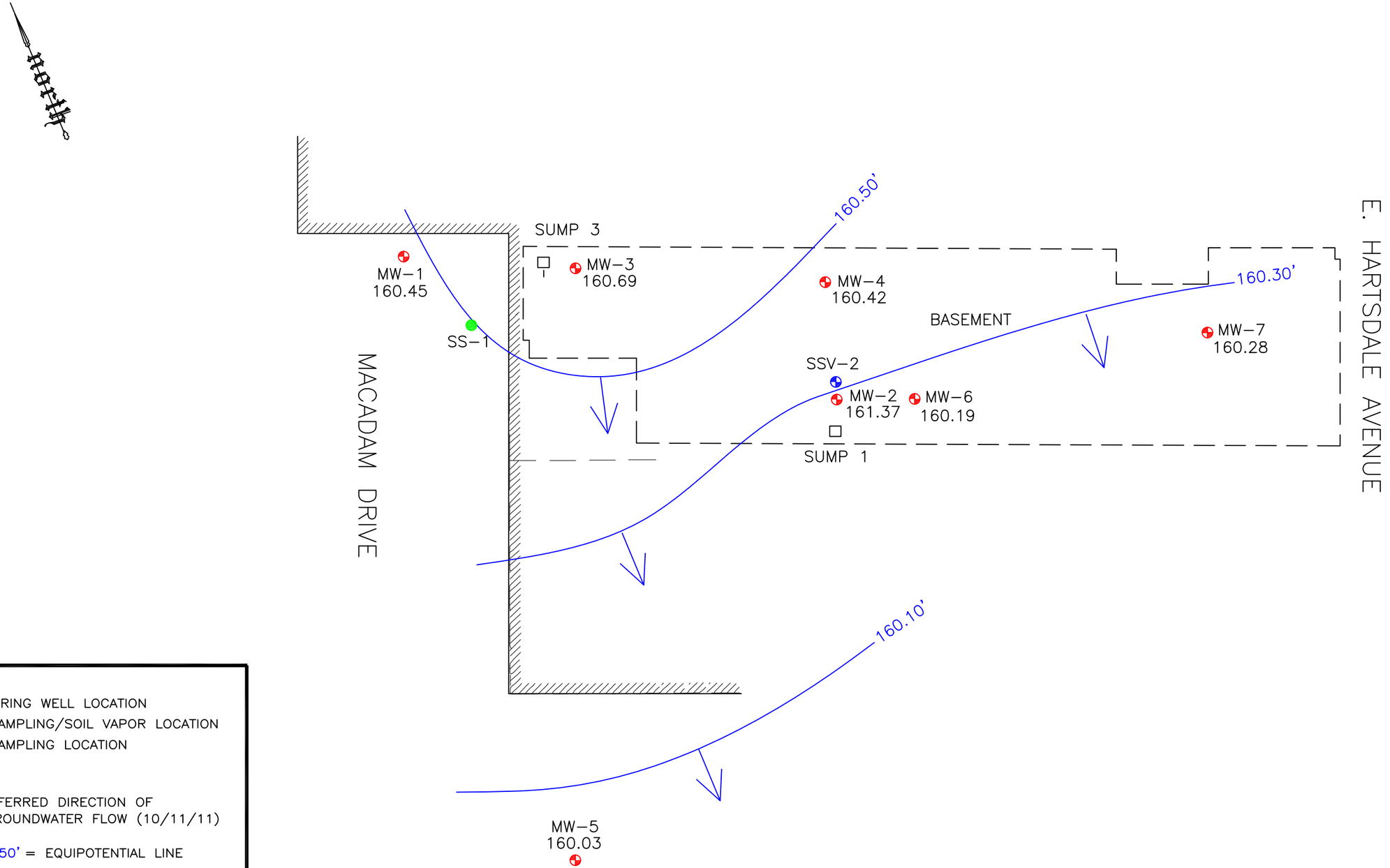
AERIAL PHOTOGRAPH

Figure 3-1
RI Testing Locations

Aristocrat Cleaners
212 E. Hartsdale Ave.
Hartsdale, NY

N
W E
S

EnviroTrac
Environmental Services
5 Old Dock Road
Yaphank, NY 11980
P: 631-924-3001 F:631-924-5001



LEGEND:

- MONITORING WELL LOCATION
- SOIL SAMPLING/SOIL VAPOR LOCATION
- SOIL SAMPLING LOCATION
- SUMP
- = INFERRED DIRECTION OF GROUNDWATER FLOW (10/11/11)
- 160.50' = EQUIPOTENTIAL LINE

SAMPLE WELL:

MW-1 = MONITORING WELL ID
160.45 = WATER-TABLE ELEVATION (ft/msl)

NOTE: WELLS MW-2 & MW-6 NOT USED IN CONTOURS.

Base map taken from GABRIEL E. SENOR, P.C. map dated OCTOBER 11, 2011

EnviroTrac
ENVIRONMENTAL SERVICES
5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980
PHONE: (631)924-3001 FAX: (631)924-5001

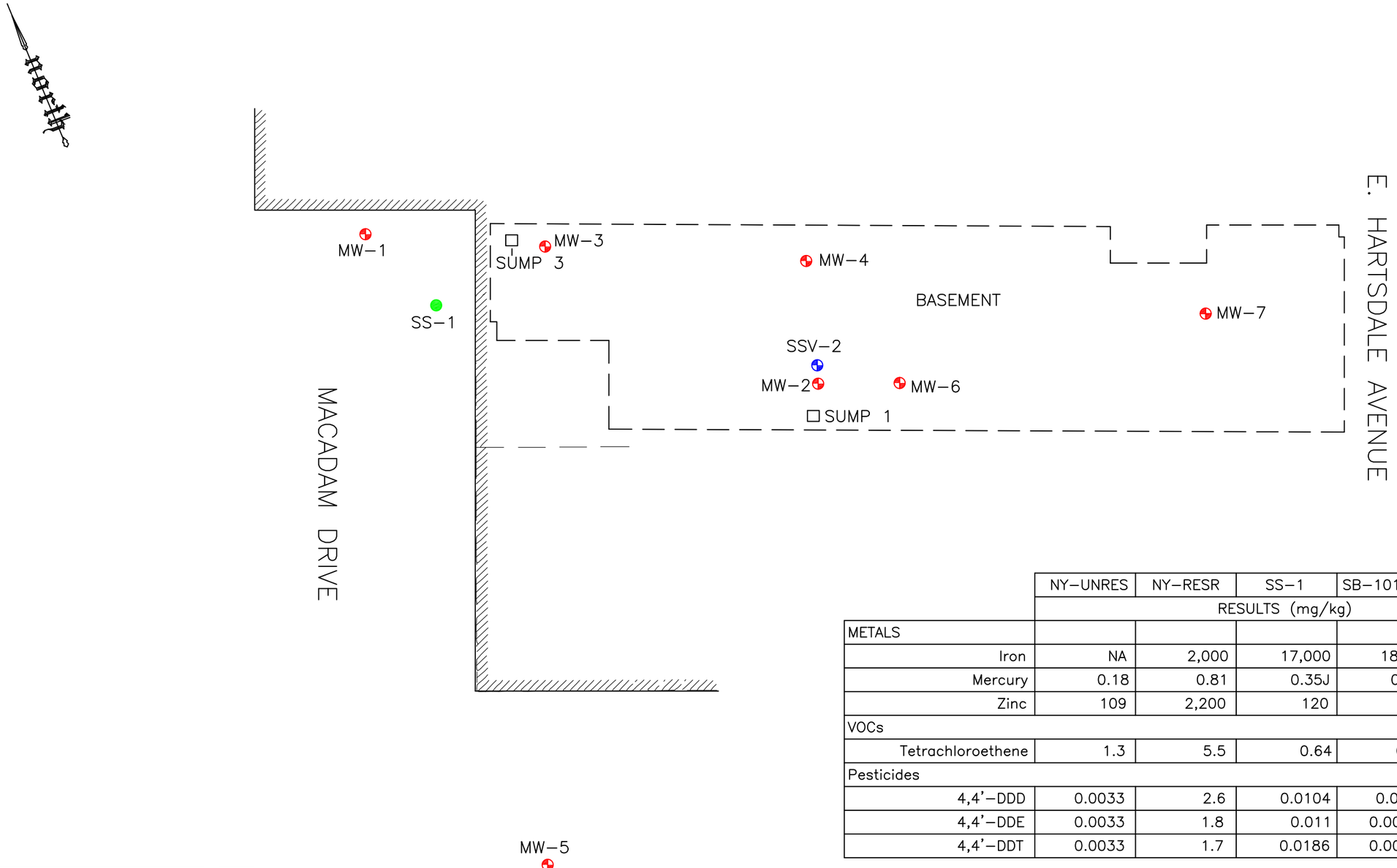
0 5 FT 10

REVISION DATE: JUNE 23, 2014 | SCALE: 1" = 10 FEET | REVISED BY: TB

ARISTOCRAT CLEANERS
212 E. HARTSDALE AVENUE
HARTSDALE, NEW YORK

GENERAL DIRECTION OF GROUNDWATER FLOW

FIGURE # 4-1



	NY–UNRES	NY–RESR	SS–1	SB–101 (1)	SSV–2
	RESULTS (mg/kg)				
METALS					
Iron	NA	2,000	17,000	18,000	20,000
Mercury	0.18	0.81	0.35J	0.32J	0.36J
Zinc	109	2,200	120	150	180
VOCs					
Tetrachloroethene	1.3	5.5	0.64	0.22	1.3
Pesticides					
4,4'–DDD	0.0033	2.6	0.0104	0.0246	0.0134
4,4'–DDE	0.0033	1.8	0.011	0.00741	0.0194
4,4'–DDT	0.0033	1.7	0.0186	0.00994	0.0141

Notes:
NY–RESR: Restricted Use Residential Soil Cleanup Objective.
NY–UNRES: Unrestricted Use Soil Cleanup Objective.
Sampling conducted October 11, 2011
(1) – Duplicate of SS–1
NA – Not applicable, no criteria provided.
J – Estimated value.

LEGEND:
- MONITORING WELL
- SOIL SAMPLING/SOIL VAPOR LOCATION
- SOIL SAMPLING LOCATION
- SUMP

Base map taken from GABRIEL E. SENOR, P.C. map dated OCTOBER 11, 2011

EnviroTrac
ENVIRONMENTAL SERVICES
5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980
PHONE: (631)924–3001 FAX: (631)924–5001

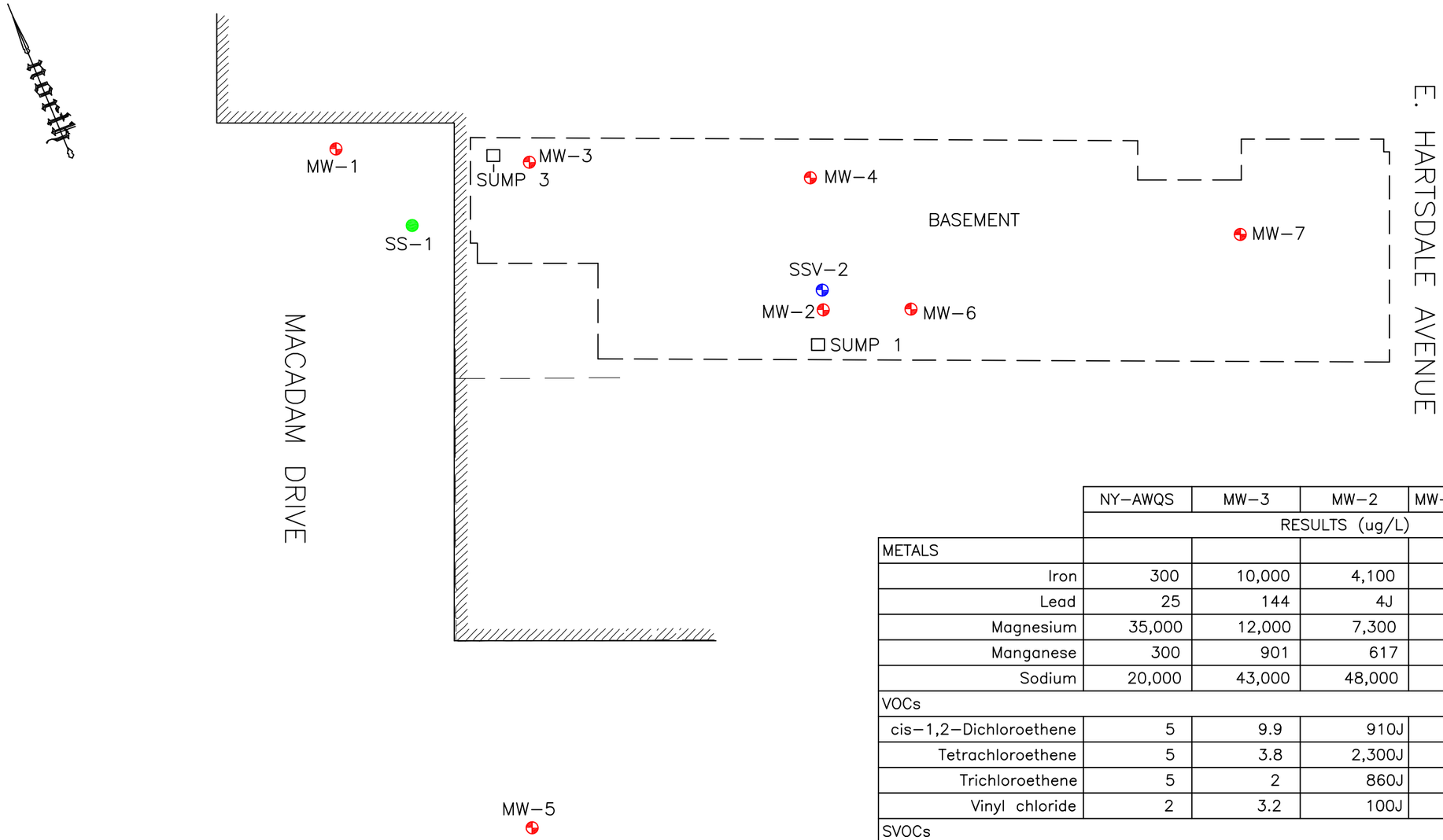
0 5 FT 10

REVISION DATE: JUNE 23, 2014 | SCALE: 1" = 10 FEET | REVISED BY: TB

ARISTOCRAT CLEANERS
212 E. HARTSDALE AVENUE
HARTSDALE, NEW YORK

SOIL RESULTS EXCEEDING REGULATORY CRITERIA

FIGURE # 5–1



	NY–AWQS	MW–3	MW–2	MW–101 (1)	MW–7
	RESULTS (ug/L)				
METALS					
Iron	300	10,000	4,100	6,500	1,800
Lead	25	144	4J	4J	5J
Magnesium	35,000	12,000	7,300	10,000	36,000
Manganese	300	901	617	900	183
Sodium	20,000	43,000	48,000	68,000	98,000
VOCs					
cis–1,2–Dichloroethene	5	9.9	910J	5,500J	160
Tetrachloroethene	5	3.8	2,300J	13,000J	98
Trichloroethene	5	2	860J	4,800J	20
Vinyl chloride	2	3.2	100J	580J	0.26J
SVOCs					
Benzo(b)fluoranthene	0.002	0.3	0.2U	0.2U	0.2U
Benzo(k)fluoranthene	0.002	0.18J	0.2U	0.2U	0.2U
Chrysene	0.002	0.25	0.2U	0.2U	0.2U

LEGEND:

- MONITORING WELL
- SOIL SAMPLING/SOIL VAPOR LOCATION
- SOIL SAMPLING LOCATION
- SUMP

Notes:
NY–AWQS New York State Ambient Water Quality Standard.
Sampling conducted October 11, 2011.
(1) – Duplicate of MW–2.
U – Compound was not detected relative to the indicated limit.
J – Estimated value.

Base map taken from GABRIEL E. SENOR, P.C. map dated OCTOBER 11, 2011

EnviroTrac
ENVIRONMENTAL SERVICES
5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980
PHONE: (631)924–3001 FAX: (631)924–5001

0 5 FT 10

REVISION DATE: JUNE 23, 2014 | SCALE: 1" = 10 FEET | REVISED BY: TB

ARISTOCRAT CLEANERS
212 E. HARTSDALE AVENUE
HARTSDALE, NEW YORK

RI PHASE I
GROUNDWATER SAMPLING RESULTS

FIGURE # 5–2

North

MW-1

SS-1

MW-3

SUMP 3

MW-4

BASEMENT

MW-7

SSV-2

MW-2D

MW-2

SUMP 1

MW-6

MW-2D

SAMPLING DATE	2/27/2013	11/12/2013	2/26/14
Tetrachloroethene	42	8.4	7.8 U
Trichloroethene	23	7.2	6.6
cis-1,2-Dichloroethene	800	180	220
Vinyl chloride	18	18	16

MW-2

SAMPLING DATE	2/27/2013	11/12/2013 (1)	2/26/14
Tetrachloroethene	13,000	17,000	730
Trichloroethene	5,400	6,700	250 U
cis-1,2-Dichloroethene	6,000	88,000	40,000
Vinyl chloride	470	3,600	1,400

EHC INJECTION AREA

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

MACADAM DRIVE

E. HARTSDALE AVENUE

MW-5

MW-8

MW-8

SAMPLING DATE	2/27/2013	11/12/2013	2/26/14 (1)
Tetrachloroethene	2,000	370	1.2 U
Trichloroethene	760	65	0.44 J
cis-1,2-Dichloroethene	1,200	1,100	200 J
Vinyl chloride	230	1,200	180 J

NY-AWQS - New York State Ambient Water Quality Standard

COMPOUND	NY-AWQS
Tetrachloroethene	5
Trichloroethene	5
cis-1,2-Dichloroethene	5
Vinyl chloride	2

LEGEND:

- MONITORING WELL
- SOIL SAMPLING/SOIL VAPOR LOCATION
- SOIL SAMPLING LOCATION
- SUMP

Notes:
All results in ug/l.
EHC Injections conducted on October 10, 2013.
(1) - Higher result of parent and duplicate samples.
U - Compound was not detected relative to the indicated limit.
J - Estimated value.

Base map taken from GABRIEL E. SENOR, P.C. map dated OCTOBER 11, 2011

EnviroTrac
ENVIRONMENTAL SERVICES
5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980
PHONE: (631)924-3001 FAX: (631)924-5001

0 5 FT 10

REVISION DATE: JUNE 23, 2014 | SCALE: 1" = 10 FEET | REVISED BY: TB

ARISTOCRAT CLEANERS
212 E. HARTSDALE AVENUE
HARTSDALE, NEW YORK

CHEMICALS OF INTEREST
PRE- and POST-INJECTION SAMPLING RESULTS

FIGURE #
5-3

north

MW–4

EHC INJECTION AREA

BASEMENT

IP–3

IP–1

SSV–2

MW–2D

IP–4

MW–6

IP–2

MW–2

SUMP 1

APPROXIMATE DIRECTION
OF GROUNDWATER FLOW

LEGEND:

- MONITORING WELL
- SOIL SAMPLING/SOIL VAPOR LOCATION
- EHS INJECTION LOCATION
- SUMP

Base map taken from GABRIEL E. SENOR, P.C. map dated OCTOBER 11, 2011

EnviroTrac
ENVIRONMENTAL SERVICES
5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980
PHONE: (631)924–3001 FAX: (631)924–5001

0 1.25 FT 2.5

REVISION DATE: JUNE 23, 2014 | SCALE: 1" = 2.5 FEET | REVISED BY: TB

ARISTOCRAT CLEANERS
212 E. HARTSDALE AVENUE
HARTSDALE, NEW YORK

EHC INJECTION LOCATIONS

FIGURE #
6–1

TABLES

Table 5-1: Phase I Soil Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION		SS-1		SB-101 (1)		SSV-2	
SAMPLING DATE		11-OCT-11		11-OCT-11		11-OCT-11	
LAB SAMPLE ID		L1116534-07		L1116534-09		L1116534-08	
Volatile Organics	NY-UNRES	Result	Qual	Result	Qual	Result	Qual
1,1,1,2-Tetrachloroethane	NA	0.003	U	0.003	U	0.016	U
1,1,1-Trichloroethane	0.68	0.003	U	0.003	U	0.016	U
1,1,2,2-Tetrachloroethane	NA	0.003	U	0.003	U	0.016	U
1,1,2-Trichloroethane	NA	0.0046	U	0.0046	U	0.025	U
1,1-Dichloroethane	0.27	0.0046	U	0.0046	U	0.025	U
1,1-Dichloroethene	0.33	0.003	U	0.003	U	0.016	U
1,1-Dichloropropene	NA	0.015	U	0.015	U	0.082	U
1,2,3-Trichlorobenzene	NA	0.015	U	0.015	U	0.082	U
1,2,3-Trichloropropane	NA	0.03	U	0.03	U	0.16	U
1,2,4,5-Tetramethylbenzene	NA	0.012	U	0.012	U	0.066	U
1,2,4-Trichlorobenzene	NA	0.015	U	0.015	U	0.082	U
1,2,4-Trimethylbenzene	3.6	0.015	U	0.015	U	0.082	U
1,2-Dibromo-3-chloropropane	NA	0.015	U	0.015	U	0.082	U
1,2-Dibromoethane	NA	0.012	U	0.012	U	0.066	U
1,2-Dichlorobenzene	1.1	0.015	U	0.015	U	0.082	U
1,2-Dichloroethane	0.02	0.003	U	0.003	U	0.016	U
1,2-Dichloropropane	NA	0.011	U	0.011	U	0.058	U
1,3,5-Trimethylbenzene	8.4	0.015	U	0.015	U	0.082	U
1,3-Dichlorobenzene	2.4	0.015	U	0.015	U	0.082	U
1,3-Dichloropropane	NA	0.015	U	0.015	U	0.082	U
1,4-Dichlorobenzene	1.8	0.015	U	0.015	U	0.082	U
1,4-Diethylbenzene	NA	0.012	U	0.012	U	0.066	U
2,2-Dichloropropane	NA	0.015	U	0.015	U	0.082	U
2-Butanone	0.12	0.03	U	0.03	U	0.16	U
2-Hexanone	NA	0.03	UJ	0.03	UJ	0.16	U
4-Ethyltoluene	NA	0.012	U	0.012	U	0.066	U
4-Methyl-2-pentanone	NA	0.03	U	0.03	U	0.16	U
Acetone	0.05	0.03	U	0.03	U	0.16	U
Acrylonitrile	NA	0.03	UJ	0.03	UJ	0.16	U
Benzene	0.06	0.003	U	0.003	U	0.016	U
Bromobenzene	NA	0.015	U	0.015	U	0.082	U
Bromochloromethane	NA	0.015	U	0.015	U	0.082	U
Bromodichloromethane	NA	0.003	U	0.003	U	0.016	U
Bromoform	NA	0.012	U	0.012	U	0.066	U
Bromomethane	NA	0.0061	U	0.0061	U	0.033	U
Carbon disulfide	NA	0.03	UJ	0.03	UJ	0.16	UJ
Carbon tetrachloride	0.76	0.003	U	0.003	U	0.016	U
Chlorobenzene	1.1	0.003	U	0.003	U	0.016	U
Chloroethane	NA	0.0061	U	0.0061	U	0.033	U
Chloroform	0.37	0.0046	U	0.0046	U	0.025	U
Chloromethane	NA	0.015	U	0.015	U	0.082	U
cis-1,2-Dichloroethene	0.25	0.088	J	0.0083	J	0.016	U
cis-1,3-Dichloropropene	NA	0.003	U	0.003	U	0.016	U
Dibromochloromethane	NA	0.003	U	0.003	U	0.016	U
Dibromomethane	NA	0.03	U	0.03	U	0.16	U

Table 5-1: Phase I Soil Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION		SS-1		SB-101 (1)		SSV-2	
SAMPLING DATE		11-OCT-11		11-OCT-11		11-OCT-11	
LAB SAMPLE ID		L1116534-07		L1116534-09		L1116534-08	
Volatile Organics	NY-UNRES	Result	Qual	Result	Qual	Result	Qual
Dichlorodifluoromethane	NA	0.03	UJ	0.03	UJ	0.16	UJ
Ethyl ether	NA	0.015	U	0.015	U	0.082	U
Ethylbenzene	1	0.003	U	0.003	U	0.016	U
Hexachlorobutadiene	NA	0.015	U	0.015	U	0.082	U
Isopropylbenzene	NA	0.003	U	0.003	U	0.016	U
Methyl tert butyl ether	0.93	0.0061	U	0.0061	U	0.033	U
Methylene chloride	0.05	0.03	U	0.03	U	0.16	U
n-Butylbenzene	12	0.003	U	0.003	U	0.016	U
n-Propylbenzene	3.9	0.003	U	0.003	U	0.016	U
Naphthalene	12	0.015	U	0.015	U	0.082	U
o-Chlorotoluene	NA	0.015	U	0.015	U	0.082	U
o-Xylene	NA	0.0061	U	0.0061	U	0.033	U
p-Chlorotoluene	NA	0.015	U	0.015	U	0.082	U
p-Isopropyltoluene	NA	0.003	U	0.003	U	0.016	U
p/m-Xylene	NA	0.0061	U	0.0061	U	0.033	U
sec-Butylbenzene	11	0.003	U	0.003	U	0.016	U
Styrene	NA	0.0061	U	0.0061	U	0.033	U
tert-Butylbenzene	5.9	0.015	U	0.015	U	0.082	U
Tetrachloroethene	1.3	0.64		0.22		1.3	
Toluene	0.7	0.0046	U	0.0046	U	0.025	U
trans-1,2-Dichloroethene	0.19	0.0024	J	0.0046	U	0.025	U
trans-1,3-Dichloropropene	NA	0.003	U	0.003	U	0.016	U
trans-1,4-Dichloro-2-butene	NA	0.015	U	0.015	U	0.082	U
Trichloroethene	0.47	0.003	U	0.003	U	0.016	U
Trichlorofluoromethane	NA	0.015	U	0.015	U	0.082	UJ
Vinyl acetate	NA	0.03	U	0.03	U	0.16	U
Vinyl chloride	0.02	0.0061	U	0.0061	U	0.033	U
Tentatively Identified Compounds (TICS)	NA			0	U		
Cyclohexane, 2-butyl-1,1,3- - TIC (14.746)		0.088	J				
Decahydro-4,4,8,9,10-pentam - TIC (16.312)		0.49	J				
Unknown - TIC (14.152)		0.052	J				
Unknown - TIC (14.419)		0.1	J				
Unknown - TIC (14.621)		0.059	J				
Unknown - TIC (14.845)		0.054	J				
Unknown - TIC (15.237)		0.34	J				
Unknown - TIC (16.018)		0.85	J				
Unknown - TIC (16.203)		0.1	J				
Unknown - TIC (16.913)		0.56	J				
Unknown - TIC (2.72)						0.052	J
Unknown - TIC (3.108)						0.042	J

Table 5-1: Phase I Soil Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION		SS-1		SB-101 (1)		SSV-2	
SAMPLING DATE		11-OCT-11		11-OCT-11		11-OCT-11	
LAB SAMPLE ID		L1116534-07		L1116534-09		L1116534-08	
Polychlorinated Biphenyls	NY-UNRES	Result	Qual	Result	Qual	Result	Qual
Aroclor 1016	0.1	0.0401	U	0.0401	U	0.0436	U
Aroclor 1221	0.1	0.0401	U	0.0401	U	0.0436	U
Aroclor 1232	0.1	0.0401	U	0.0401	U	0.0436	U
Aroclor 1242	0.1	0.0401	U	0.0401	U	0.0436	U
Aroclor 1248	0.1	0.0401	U	0.0401	U	0.0436	U
Aroclor 1254	0.1	0.0401	U	0.0401	U	0.0436	U
Aroclor 1260	0.1	0.0401	U	0.0401	U	0.0436	U

Notes:
All results in mg/kg unless otherwise noted.
(1) - Duplicate of SS-1.
U - Compound was not detected relative to the indicated limit.
J - Estimated value.
NA - Not applicable, no criteria provided.
NY-UNRES - 6NYCRR Part 375 -Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.
Analysis conducted by Alpha Analytical, Westborough, MA.

Table 5-3: Phase II Soil Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION		MW-2D@9-11 FBG		MW-2D@19-21 FBG		DUPLICATE (1)	
SAMPLING DATE		29-JAN-13		29-JAN-13		29-JAN-13	
LAB SAMPLE ID		L1301716-03		L1301716-02		L1301716-04	
Volatile Organics	NY-UNRES	Result	Qual	Result	Qual	Result	Qual
1,1,1,2-Tetrachloroethane	NA	0.00096	U	0.001	U	0.0011	U
1,1,1-Trichloroethane	0.68	0.00096	U	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NA	0.00096	U	0.001	U	0.0011	U
1,1,2-Trichloroethane	NA	0.0014	U	0.0015	U	0.0017	U
1,1-Dichloroethane	0.27	0.0014	U	0.0015	U	0.0017	U
1,1-Dichloroethene	0.33	0.00096	U	0.001	U	0.0011	U
1,1-Dichloropropene	NA	0.0048	U	0.0051	U	0.0056	U
1,2,3-Trichlorobenzene	NA	0.0048	U	0.0051	U	0.0056	U
1,2,3-Trichloropropane	NA	0.0096	U	0.01	U	0.011	U
1,2,4,5-Tetramethylbenzene	NA	0.0038	U	0.004	U	0.0045	U
1,2,4-Trichlorobenzene	NA	0.0048	U	0.0051	U	0.0056	U
1,2,4-Trimethylbenzene	3.6	0.0048	U	0.0051	U	0.0056	U
1,2-Dibromo-3-chloropropane	NA	0.0048	UJ	0.0051	UJ	0.0056	UJ
1,2-Dibromoethane	NA	0.0038	U	0.004	U	0.0045	U
1,2-Dichlorobenzene	1.1	0.0048	U	0.0051	U	0.0056	U
1,2-Dichloroethane	0.02	0.00096	U	0.001	U	0.0011	U
1,2-Dichloropropane	NA	0.0034	U	0.0035	U	0.0039	U
1,3,5-Trimethylbenzene	8.4	0.0048	U	0.0051	U	0.0056	U
1,3-Dichlorobenzene	2.4	0.0048	U	0.0051	U	0.0056	U
1,3-Dichloropropane	NA	0.0048	U	0.0051	U	0.0056	U
1,4-Dichlorobenzene	1.8	0.0048	U	0.0051	U	0.0056	U
1,4-Diethylbenzene	NA	0.0038	UJ	0.004	UJ	0.0045	UJ
1,4-Dioxane	0.1	0.096	UR	0.1	UR	0.11	UR
2,2-Dichloropropane	NA	0.0048	U	0.0051	U	0.0056	U
2-Butanone	0.12	0.0096	UJ	0.01	UJ	0.011	UJ
2-Hexanone	NA	0.0096	UJ	0.01	UJ	0.011	UJ
4-Ethyltoluene	NA	0.0038	U	0.004	U	0.0045	U
4-Methyl-2-pentanone	NA	0.0035	J	0.01	UJ	0.011	UJ
Acetone	0.05	0.0063	J	0.01	UR	0.011	UR
Acrylonitrile	NA	0.0096	UJ	0.01	UJ	0.011	UJ
Benzene	0.06	0.00096	U	0.001	U	0.0011	U
Bromobenzene	NA	0.0048	U	0.0051	U	0.0056	U
Bromochloromethane	NA	0.0048	U	0.0051	U	0.0056	U
Bromodichloromethane	NA	0.00096	U	0.001	U	0.0011	U
Bromoform	NA	0.0038	U	0.004	U	0.0045	U
Bromomethane	NA	0.0019	U	0.002	U	0.0022	U
Carbon disulfide	NA	0.0096	U	0.01	U	0.011	U
Carbon tetrachloride	0.76	0.00096	U	0.001	U	0.0011	U
Chlorobenzene	1.1	0.00096	U	0.001	U	0.0011	U
Chloroethane	NA	0.0019	U	0.002	U	0.0022	U
Chloroform	0.37	0.0014	U	0.0015	U	0.0017	U
Chloromethane	NA	0.0048	U	0.0051	U	0.0056	U

Table 5-3: Phase II Soil Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION		MW-2D@9-11 FBG		MW-2D@19-21 FBG		DUPLICATE (1)	
SAMPLING DATE		29-JAN-13		29-JAN-13		29-JAN-13	
LAB SAMPLE ID		L1301716-03		L1301716-02		L1301716-04	
Volatile Organics	NY-UNRES	Result	Qual	Result	Qual	Result	Qual
cis-1,2-Dichloroethene	0.25	0.00061		0.009		0.0032	
cis-1,3-Dichloropropene	NA	0.00096	U	0.001	U	0.0011	U
Dibromochloromethane	NA	0.00096	U	0.001	U	0.0011	U
Dibromomethane	NA	0.0096	U	0.01	U	0.011	U
Dichlorodifluoromethane	NA	0.0096	U	0.01	U	0.011	U
Ethyl ether	NA	0.0048	UJ	0.0051	U	0.0056	U
Ethylbenzene	1	0.00096	U	0.001	U	0.0011	U
Hexachlorobutadiene	NA	0.0048	U	0.0051	U	0.0056	U
Isopropylbenzene	NA	0.00096	U	0.001	U	0.0011	U
Methyl tert butyl ether	0.93	0.0019	U	0.002	U	0.0022	U
Methylene chloride	0.05	0.0096	U	0.01	U	0.011	U
n-Butylbenzene	12	0.00096	U	0.001	U	0.0011	U
n-Propylbenzene	3.9	0.00096	U	0.001	U	0.0011	U
Naphthalene	12	0.0048	U	0.0051	U	0.0056	U
o-Chlorotoluene	NA	0.0048	U	0.0051	U	0.0056	U
o-Xylene	NA	0.0019	U	0.002	U	0.0022	U
p-Chlorotoluene	NA	0.0048	U	0.0051	U	0.0056	U
p-Isopropyltoluene	NA	0.00096	U	0.001	U	0.0011	U
p/m-Xylene	NA	0.0019	U	0.002	U	0.0022	U
sec-Butylbenzene	11	0.00096	U	0.001	U	0.0011	U
Styrene	NA	0.0019	U	0.002	U	0.0022	U
tert-Butylbenzene	5.9	0.0048	U	0.0051	U	0.0056	U
Tetrachloroethene	1.3	0.00068		0.0059		0.0035	
Toluene	0.7	0.0014	U	0.0015	U	0.0017	U
trans-1,2-Dichloroethene	0.19	0.0014	U	0.0015	U	0.0017	U
trans-1,3-Dichloropropene	NA	0.00096	U	0.001	U	0.0011	U
trans-1,4-Dichloro-2-butene	NA	0.0048	UJ	0.0051	U	0.0056	U
Trichloroethene	0.47	0.00096	U	0.002		0.00077	
Trichlorofluoromethane	NA	0.0048	U	0.0051	U	0.0056	U
Vinyl acetate	NA	0.0096	UJ	0.01	UJ	0.011	UJ
Vinyl chloride	0.02	0.0019	U	0.002	U	0.0022	U
Tentatively Identified Compounds	NA	0	U	0	U		
Unknown - TIC (7.887)	NA					0.0043	J

Notes:
(1) - Duplicate of MW-2D@19-21 FBG
NY-UNRES - 6NYCRR Part 375 -Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.
Soil and NY-UNRES results in mg/kg. Blank results in ug/l.
NA - Not applicable, no criteria provided.
U - Compound was not detected relative to the indicated limit.
J - Estimated value.
R - Sample result was rejected based on validation.
Analysis conducted by Alpha Analytical, Westborough, MA.

Table 5-4: Phase I Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION		MW-2		MW-101 (1)		MW-3		MW-7	
SAMPLING DATE		11-OCT-11		11-OCT-11		11-OCT-11		11-OCT-11	
LAB SAMPLE ID		L1116534-01		L1116534-04		L1116534-02		L1116534-03	
Volatile Organics	NY-AWQS	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,1,1,2-Tetrachloroethane	5	25	U	200	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	25	U	200	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	25	U	200	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	38	U	300	U	0.75	U	0.75	U
1,1-Dichloroethane	5	38	U	300	U	0.75	U	0.75	U
1,1-Dichloroethene	5	25	U	200	U	0.5	U	0.22	J
1,1-Dichloropropene	5	120	U	1000	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	5	120	U	1000	U	2.5	U	2.5	U
1,2,3-Trichloropropane	0.04	250	U	2000	U	5	U	5	U
1,2,4,5-Tetramethylbenzene	NA	100	U	800	U	3		2	U
1,2,4-Trichlorobenzene	5	120	UJ	1000	UJ	2.5	UJ	2.5	UJ
1,2,4-Trimethylbenzene	5	120	U	1000	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	0.04	120	U	1000	U	2.5	U	2.5	U
1,2-Dibromoethane	0.0006	100	U	800	U	2	U	2	U
1,2-Dichlorobenzene	3	120	U	1000	U	2.5	U	2.5	U
1,2-Dichloroethane	0.6	25	U	200	U	0.5	U	0.5	U
1,2-Dichloropropane	1	88	U	700	U	1.8	U	1.8	U
1,3,5-Trimethylbenzene	5	120	U	1000	U	2.5	U	2.5	U
1,3-Dichlorobenzene	3	120	U	1000	U	2.5	U	2.5	U
1,3-Dichloropropane	5	120	U	1000	U	2.5	U	2.5	U
1,4-Dichlorobenzene	3	120	U	1000	U	2.5	U	2.5	U
1,4-Diethylbenzene	NA	100	U	800	U	13		0.34	J
2,2-Dichloropropane	5	120	U	1000	U	2.5	U	2.5	U
2-Butanone	50	250	U	2000	U	5	U	5	U
2-Hexanone	50	250	U	2000	U	5	U	5	U
4-Ethyltoluene	NA	100	U	800	U	2	U	2	U
4-Methyl-2-pentanone	NA	250	U	2000	U	5	U	5	U
Acetone	50	250	U	2000	U	5	U	5	U
Acrylonitrile	5	250	U	2000	U	5	U	5	U
Benzene	1	25	U	200	U	0.36	J	0.5	U
Bromobenzene	5	120	U	1000	U	2.5	U	2.5	U
Bromochloromethane	5	120	U	1000	U	2.5	U	2.5	U
Bromodichloromethane	50	25	U	200	U	0.5	U	0.5	U
Bromoform	50	100	U	800	U	2	U	2	U
Bromomethane	5	50	UJ	400	UJ	1	UJ	1	UJ
Carbon disulfide	60	250	U	2000	U	5	U	5	U
Carbon tetrachloride	5	25	U	200	U	0.5	U	0.5	U
Chlorobenzene	5	25	U	200	U	0.5	U	0.5	U
Chloroethane	5	50	U	400	U	1	U	1	U
Chloroform	7	33	U	300	U	0.75	U	0.75	U
Chloromethane	NA	120	UJ	1000	UJ	2.5	UJ	2.5	UJ
cis-1,2-Dichloroethene	5	910	J	5500	J	9.9		160	
cis-1,3-Dichloropropene	0.4	25	U	200	U	0.5	U	0.5	U
Dibromochloromethane	50	25	U	200	U	0.5	U	0.5	U
Dibromomethane	5	250	U	2000	U	5	U	5	U
Dichlorodifluoromethane	5	250	UJ	2000	UJ	5	UJ	5	UJ
Ethyl ether	NA	120	U	1000	U	2.5	U	2.5	U
Ethylbenzene	5	25	U	200	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	30	U	240	U	0.6	U	0.6	U
Isopropylbenzene	5	25	U	200	U	2.4		0.5	U
Methyl tert butyl ether	10	50	U	400	U	1	U	1	U
Methylene chloride	5	250	U	2000	U	5	U	5	U
n-Butylbenzene	5	25	U	200	U	2.6		0.5	U
n-Propylbenzene	5	25	U	200	U	2.8		0.5	U
Naphthalene	10	120	U	1000	U	3.8		2.5	U
o-Chlorotoluene	5	120	U	1000	U	2.5	U	2.5	U

Table 5-4: Phase I Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION		MW-2		MW-101 (1)		MW-3		MW-7	
SAMPLING DATE		11-OCT-11		11-OCT-11		11-OCT-11		11-OCT-11	
LAB SAMPLE ID		L1116534-01		L1116534-04		L1116534-02		L1116534-03	
Volatile Organics	NY-AWQS	Result	Qual	Result	Qual	Result	Qual	Result	Qual
o-Xylene	5	50	U	400	U	1	U	1	U
p-Chlorotoluene	5	120	U	1000	U	2.5	U	2.5	U
p-Isopropyltoluene	5	25	U	200	U	0.5	U	0.5	U
p/m-Xylene	5	50	U	400	U	1	U	1	U
sec-Butylbenzene	5	25	U	200	U	4.4		0.5	U
Styrene	5	50	U	400	U	1	U	1	U
tert-Butylbenzene	5	120	U	1000	U	0.38	J	2.5	U
Tetrachloroethene	5	2300	J	13000	J	3.8		98	
Toluene	5	38	U	300	U	0.75	U	0.75	U
trans-1,2-Dichloroethene	5	38	U	300	U	0.39	J	1.2	
trans-1,3-Dichloropropene	0.4	25	U	200	U	0.5	U	0.5	U
trans-1,4-Dichloro-2-butene	5	120	U	1000	U	2.5	U	2.5	U
Trichloroethene	5	860	J	4800	J	2		20	
Trichlorofluoromethane	5	120	U	1000	U	2.5	U	2.5	U
Vinyl acetate	NA	250	U	2000	U	5	U	5	U
Vinyl chloride	2	100	J	580	J	3.2		0.26	J
Tentatively Identified Compounds (TICS)	NA	0	U	0	U				
Naphthalene, 1-methyl- - TIC (21.739)	NA							1.3	J
Unknown - TIC (16.234)	NA					14	J		
Unknown - TIC (17.112)	NA					19	J		
Unknown - TIC (18.138)	NA					14	J		
Unknown - TIC (18.422)	NA					20	J		
Unknown - TIC (19.164)	NA					14	J		
Unknown - TIC (19.617)	NA					15	J		
Unknown - TIC (20.086)	NA					14	J		
Unknown - TIC (20.517)	NA					13	J		
Unknown - TIC (21.117)	NA					10	J		
Unknown - TIC (21.739)	NA					12	J		

Notes:
All results in ug/l.
(1) - Duplicate of MW-2.
U - Compound was not detected relative to the indicated limit.
J - Estimated value.
NA - Not applicable, no criteria provided.
NY-AWQS - New York State Ambient Water Quality Standard, TOGS 1.1.1.
Analysis conducted by Alpha Analytical, Westborough, MA.

Table 5-5: Phase II Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

WELL DESIGNATION		MW-1		DUPLICATE (1)		MW-2		MW-2D		MW-4	
SAMPLING DATE		27-FEB-13		27-FEB-13		27-FEB-13		27-FEB-13		27-FEB-13	
LAB SAMPLE ID		L1303352-01		L1303352-07		L1303352-02		L1303352-03		L1303352-04	
Volatile Organics	NY-AWQS	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,1,1,2-Tetrachloroethane	5	12	U	12	U	620	U	25	U	2.5	U
1,1,1-Trichloroethane	5	12	U	12	U	620	U	25	U	2.5	U
1,1,2,2-Tetrachloroethane	5	2.5	U	2.5	U	120	U	5	U	0.5	U
1,1,2-Trichloroethane	1	7.5	U	7.5	U	380	U	15	U	1.5	U
1,1-Dichloroethane	5	12	U	12	U	620	U	25	U	2.5	U
1,1-Dichloroethene	5	2.5	U	2.5	U	120	U	5	U	0.5	U
1,1-Dichloropropene	5	12	U	12	U	620	U	25	U	2.5	U
1,2,3-Trichlorobenzene	5	12	U	12	U	620	U	25	U	2.5	U
1,2,3-Trichloropropane	0.04	12	UJ	12	UJ	620	UJ	25	UJ	2.5	UJ
1,2,4,5-Tetramethylbenzene	NA	10	U	10	U	500	U	20	U	2	U
1,2,4-Trichlorobenzene	5	12	U	12	U	620	U	25	U	2.5	U
1,2,4-Trimethylbenzene	5	3.6		12	U	620	U	25	U	2.5	U
1,2-Dibromo-3-chloropropane	0.04	12	UJ	12	UJ	620	UJ	25	UJ	2.5	UJ
1,2-Dibromoethane	0.0006	10	U	10	U	500	U	20	U	2	U
1,2-Dichlorobenzene	3	12	U	12	U	620	U	25	U	2.5	U
1,2-Dichloroethane	0.6	2.5	U	2.5	U	120	U	5	U	0.5	U
1,2-Dichloropropane	1	5	U	5	U	250	U	10	U	1	U
1,3,5-Trimethylbenzene	5	12	U	12	U	620	U	25	U	2.5	U
1,3-Dichlorobenzene	3	12	U	12	U	620	U	25	U	2.5	U
1,3-Dichloropropane	5	12	U	12	U	620	U	25	U	2.5	U
1,4-Dichlorobenzene	3	12	U	12	U	620	U	25	U	2.5	U
1,4-Diethylbenzene	NA	10	U	10	U	500	U	20	U	2	U
1,4-Dioxane	NA	1200	UR	1200	UR	62000	UR	2500	UR	250	UR
2,2-Dichloropropane	5	12	U	12	U	620	U	25	U	2.5	U
2-Butanone	50	25	U	25	U	1200	U	50	U	5	U
2-Hexanone	50	25	U	25	U	1200	U	50	U	5	U
4-Ethyltoluene	NA	10	U	10	U	500	U	20	U	2	U
4-Methyl-2-pentanone	NA	25	U	25	U	1200	U	50	U	5	U
Acetone	50	11		25	U	1200	U	50	U	5	U
Acrylonitrile	5	25	U	25	U	1200	U	50	U	5	U
Benzene	1	2.5	U	2.5	U	120	U	5	U	0.5	U
Bromobenzene	5	12	U	12	U	620	U	25	U	2.5	U
Bromochloromethane	5	12	U	12	U	620	U	25	U	2.5	U
Bromodichloromethane	50	2.5	U	2.5	U	120	U	5	U	0.5	U
Bromoform	50	10	U	10	U	500	U	20	U	2	U
Bromomethane	5	12	U	12	U	620	U	25	U	2.5	U
Carbon disulfide	60	25	U	25	U	1200	U	50	U	5	U
Carbon tetrachloride	5	2.5	U	2.5	U	120	U	5	U	0.5	U
Chlorobenzene	5	12	U	12	U	620	U	25	U	2.5	U
Chloroethane	5	12	U	12	U	620	U	25	U	2.5	U
Chloroform	7	12	U	12	U	620	U	25	U	2.5	U
Chloromethane	NA	12	U	12	U	620	U	25	U	2.5	U
cis-1,2-Dichloroethene	5	310		320		6000		800		10	
cis-1,3-Dichloropropene	0.4	2.5	U	2.5	U	120	U	5	U	0.5	U

Table 5-5: Phase II Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

WELL DESIGNATION		MW-1		DUPLICATE (1)		MW-2		MW-2D		MW-4	
SAMPLING DATE		27-FEB-13		27-FEB-13		27-FEB-13		27-FEB-13		27-FEB-13	
LAB SAMPLE ID		L1303352-01		L1303352-07		L1303352-02		L1303352-03		L1303352-04	
Volatile Organics	NY-AWQS	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibromochloromethane	50	2.5	U	2.5	U	120	U	5	U	0.5	U
Dibromomethane	5	25	U	25	U	1200	U	50	U	5	U
Dichlorodifluoromethane	5	25	U	25	U	1200	U	50	U	5	U
Ethyl ether	NA	12	U	12	U	620	U	25	U	2.5	U
Ethylbenzene	5	12	U	12	U	620	U	25	U	2.5	U
Hexachlorobutadiene	0.5	12	U	12	U	620	U	25	U	2.5	U
Isopropylbenzene	5	12	U	12	U	620	U	25	U	2.5	U
Methyl tert butyl ether	10	12	U	12	U	620	U	25	U	2.5	U
Methylene chloride	5	12	U	12	U	620	U	25	U	2.5	U
n-Butylbenzene	5	12	U	12	U	620	U	25	U	2.5	U
n-Propylbenzene	5	12	U	12	U	620	U	25	U	2.5	U
Naphthalene	10	6.4		3.6		620	U	25	U	2.5	U
o-Chlorotoluene	5	12	U	12	U	620	U	25	U	2.5	U
o-Xylene	5	12	U	12	U	620	U	25	U	2.5	U
p-Chlorotoluene	5	12	U	12	U	620	U	25	U	2.5	U
p-Isopropyltoluene	5	12	U	12	U	620	U	25	U	2.5	U
p/m-Xylene	5	3.6		12	U	620	U	25	U	2.5	U
sec-Butylbenzene	5	12	U	12	U	620	U	25	U	2.5	U
Styrene	5	12	U	12	U	620	U	25	U	2.5	U
tert-Butylbenzene	5	12	U	12	U	620	U	25	U	2.5	U
Tetrachloroethene	5	170		170		13000		42		0.5	U
Toluene	5	12	U	12	U	620	U	25	U	2.5	U
trans-1,2-Dichloroethene	5	12	U	12	U	620	U	25	U	2.5	U
trans-1,3-Dichloropropene	0.4	2.5	U	2.5	U	120	U	5	U	0.5	U
trans-1,4-Dichloro-2-butene	5	12	UJ	12	UJ	620	UJ	25	UJ	2.5	UJ
Trichloroethene	5	40		41		5400		23		0.46	
Trichlorofluoromethane	5	12	U	12	U	620	U	25	U	2.5	U
Vinyl acetate	NA	25	U	25	U	1200	U	50	U	5	U
Vinyl chloride	2	57		55		470		18		0.83	
Tentatively Identified Compounds (TICS)				0	U	0	U	0	U	0	U
Unknown - TIC (17.085)											
Unknown Naphthalene - TIC (15.796)		9.1	J								
Unknown Naphthalene - TIC (15.958)		5.6	J								

Table 5-5: Phase II Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

WELL DESIGNATION		MW-5		MW-8	
SAMPLING DATE		27-FEB-13		27-FEB-13	
LAB SAMPLE ID		L1303352-05		L1303352-06	
Volatile Organics	NY-AWQS	Result	Qual	Result	Qual
1,1,1,2-Tetrachloroethane	5	6.2	U	120	U
1,1,1-Trichloroethane	5	6.2	U	120	U
1,1,2,2-Tetrachloroethane	5	1.2	U	25	U
1,1,2-Trichloroethane	1	3.8	U	75	U
1,1-Dichloroethane	5	6.2	U	120	U
1,1-Dichloroethene	5	1.2	U	25	U
1,1-Dichloropropene	5	6.2	U	120	U
1,2,3-Trichlorobenzene	5	6.2	U	120	U
1,2,3-Trichloropropane	0.04	6.2	UJ	120	UJ
1,2,4,5-Tetramethylbenzene	NA	5	U	100	U
1,2,4-Trichlorobenzene	5	6.2	U	120	U
1,2,4-Trimethylbenzene	5	6.2	U	120	U
1,2-Dibromo-3-chloropropane	0.04	6.2	UJ	120	UJ
1,2-Dibromoethane	0.0006	5	U	100	U
1,2-Dichlorobenzene	3	6.2	U	120	U
1,2-Dichloroethane	0.6	1.2	U	25	U
1,2-Dichloropropane	1	2.5	U	50	U
1,3,5-Trimethylbenzene	5	6.2	U	120	U
1,3-Dichlorobenzene	3	6.2	U	120	U
1,3-Dichloropropane	5	6.2	U	120	U
1,4-Dichlorobenzene	3	6.2	U	120	U
1,4-Diethylbenzene	NA	5	U	100	U
1,4-Dioxane	NA	620	UR	12000	UR
2,2-Dichloropropane	5	6.2	U	120	U
2-Butanone	50	12	U	250	U
2-Hexanone	50	12	U	250	U
4-Ethyltoluene	NA	5	U	100	U
4-Methyl-2-pentanone	NA	12	U	250	U
Acetone	50	12	U	250	U
Acrylonitrile	5	12	U	250	U
Benzene	1	1.2	U	25	U
Bromobenzene	5	6.2	U	120	U
Bromochloromethane	5	6.2	U	120	U
Bromodichloromethane	50	1.2	U	25	U
Bromoform	50	5	U	100	U
Bromomethane	5	6.2	U	120	U
Carbon disulfide	60	12	U	250	U
Carbon tetrachloride	5	1.2	U	25	U
Chlorobenzene	5	6.2	U	120	U
Chloroethane	5	6.2	U	120	U
Chloroform	7	6.2	U	120	U
Chloromethane	NA	6.2	U	120	U
cis-1,2-Dichloroethene	5	60		1200	
cis-1,3-Dichloropropene	0.4	1.2	U	25	U

Table 5-5: Phase II Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

WELL DESIGNATION		MW-5		MW-8	
SAMPLING DATE		27-FEB-13		27-FEB-13	
LAB SAMPLE ID		L1303352-05		L1303352-06	
Volatile Organics	NY-AWQS	Result	Qual	Result	Qual
Dibromochloromethane	50	1.2	U	25	U
Dibromomethane	5	12	U	250	U
Dichlorodifluoromethane	5	12	U	250	U
Ethyl ether	NA	6.2	U	120	U
Ethylbenzene	5	6.2	U	120	U
Hexachlorobutadiene	0.5	6.2	U	120	U
Isopropylbenzene	5	6.2	U	120	U
Methyl tert butyl ether	10	6.2	U	120	U
Methylene chloride	5	6.2	U	120	U
n-Butylbenzene	5	6.2	U	120	U
n-Propylbenzene	5	6.2	U	120	U
Naphthalene	10	6.2	U	120	U
o-Chlorotoluene	5	6.2	U	120	U
o-Xylene	5	6.2	U	120	U
p-Chlorotoluene	5	6.2	U	120	U
p-Isopropyltoluene	5	6.2	U	120	U
p/m-Xylene	5	6.2	U	120	U
sec-Butylbenzene	5	6.2	U	120	U
Styrene	5	6.2	U	120	U
tert-Butylbenzene	5	6.2	U	120	U
Tetrachloroethene	5	160		2000	
Toluene	5	6.2	U	120	U
trans-1,2-Dichloroethene	5	6.2	U	120	U
trans-1,3-Dichloropropene	0.4	1.2	U	25	U
trans-1,4-Dichloro-2-butene	5	6.2	UJ	120	UJ
Trichloroethene	5	24		760	
Trichlorofluoromethane	5	6.2	U	120	U
Vinyl acetate	NA	12	U	250	U
Vinyl chloride	2	0.97		230	
Tentatively Identified Compounds (TICS)		0	U	0	U
Unknown - TIC (17.085)					
Unknown Naphthalene - TIC (15.796)					
Unknown Naphthalene - TIC (15.958)					

Notes:
All results in ug/l.
(1) - Duplicate of MW-1
U - Compound was not detected relative to the indicated limit.
J - Estimated value.
R - Sample result was rejected based on validation.
NA - Not applicable, no criteria provided.
NY-AWQS - New York State Ambient Water Quality Standard, TOGS 1.1.1.
Analysis conducted by Alpha Analytical, Westborough, MA.

Table 5-6: IRM Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

								Blind Duplicate Samples	
WELL DESIGNATION		**MW-2**		**MW-2D**		**MW-8**		**MW-100 (1)**	**MW-101 (2)**
SAMPLING DATE		**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**
LAB SAMPLE ID		**L1323002-01**	**L1404174-01**	**L1323002-02**	**L1404174-02**	**L1323002-03**	**L1404174-03**	**L1323002-03**	**L1404174-04**
Volatile Organics	**NY-AWQS**	**Result**		**Result**		**Result**		**Result**	**Result**
1,1,1,2-Tetrachloroethane	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,1,1-Trichloroethane	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,1,2,2-Tetrachloroethane	**5**	1,000 U	250 U	3 U	2 U	12 U	0.5 U	500 U	1.2 U
1,1,2-Trichloroethane	**1**	3,000 U	750 U	8 U	6 U	38 U	1.5 U	1,500 U	3.8 U
1,1-Dichloroethane	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,1-Dichloroethene	**5**	1,000 U	250 U	3 UJ	2 U	12 U	0.5 U	500 U	1.2 U
1,1-Dichloropropene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,2,3-Trichlorobenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,2,3-Trichloropropane	**0.04**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,2,4,5-Tetramethylbenzene	**NA**	4,000 U	1,000 U	10 U	8 U	50 U	9.9 J	2,000 U	13
1,2,4-Trichlorobenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,2,4-Trimethylbenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,2-Dibromo-3-chloropropane	**0.04**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,2-Dibromoethane	**0.0006**	4,000 U	1,000 U	10 U	8 U	50 U	2 U	2,000 U	5 U
1,2-Dichlorobenzene	**3**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,2-Dichloroethane	**0.6**	1,000 U	250 U	3 U	2 U	12 U	0.5 U	500 U	1.2 U
1,2-Dichloropropane	**1**	2,000 U	500 U	5 U	4 U	25 U	1 U	1,000 U	2.5 U
1,3,5-Trimethylbenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,3-Dichlorobenzene	**3**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,3-Dichloropropane	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,4-Dichlorobenzene	**3**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
1,4-Diethylbenzene	**NA**	4,000 U	1,000 U	10 U	8 U	50 U	1.5 J	2,000 U	5 U
1,4-Dioxane	**NA**	500,000 UJ	120,000 U	1,200 UJ	1000 U	6200 UJ	250 U	250,000 UJ	620 U
2,2-Dichloropropane	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
2-Butanone	**50**	10,000 U	1,200 J	25 U	7 J	120 U	5 U	5,000 U	12 U
2-Hexanone	**50**	10,000 U	2,500 UJ	25 U	20 UJ	120 U	5 UJ	5,000 U	12 UJ
4-Ethyltoluene	**NA**	4,000 U	1,000 U	10 U	8 U	50 U	2 U	2,000 U	5 U
4-Methyl-2-pentanone	**NA**	10,000 R	2,500 UJ	25 R	20 UJ	120 R	5 UJ	5,000 R	12 UJ
Acetone	**50**	10,000 R	2,500 U	84 R	20 U	120 R	5 U	5,000 R	12 U
Acrylonitrile	**5**	10,000 R	2,500 U	25 R	20 U	120 R	5 U	5,000 R	12 U
Benzene	**1**	1,000 U	250 U	3 U	2 U	12 U	0.5 U	500 U	1.2 U
Bromobenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Bromochloromethane	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U

Table 5-6: IRM Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

								Blind Duplicate Samples	
WELL DESIGNATION		**MW-2**		**MW-2D**		**MW-8**		**MW-100 (1)**	**MW-101 (2)**
SAMPLING DATE		**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**
LAB SAMPLE ID		**L1323002-01**	**L1404174-01**	**L1323002-02**	**L1404174-02**	**L1323002-03**	**L1404174-03**	**L1323002-03**	**L1404174-04**
Volatile Organics	**NY-AWQS**	**Result**		**Result**		**Result**		**Result**	**Result**
Bromodichloromethane	**50**	1,000 U	250 U	3 U	2 U	12 U	0.5 U	500 U	1.2 U
Bromoform	**50**	4,000 U	1,000 U	10 U	8 U	50 U	2 U	2,000 U	5 U
Bromomethane	**5**	5,000 R	1,200 U	12 R	10 U	62 R	2.5 U	2,500 R	6.2 U
Carbon disulfide	**60**	10,000 U	2,500 U	25 UJ	20 U	120 U	5 U	5,000 U	12 U
Carbon tetrachloride	**5**	1,000 U	250 U	3 U	2 U	12 U	0.5 U	500 U	1.2 U
Chlorobenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Chloroethane	**5**	5,000 U	1,200 U	12 UJ	10 U	62 U	2.5 U	2,500 U	6.2 U
Chloroform	**7**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Chloromethane	**NA**	5,000 U	1,200 U	12 UJ	10 U	62 U	2.5 U	2,500 U	6.2 U
cis-1,2-Dichloroethene	**5**	88,000	40,000	180	220	1,100	79 J	64,000	200 J
cis-1,3-Dichloropropene	**0.4**	1,000 U	250 U	2.5 U	2 U	12 U	0.5 U	500 U	1.2 U
Dibromochloromethane	**50**	1,000 U	250 U	2.5 U	2 U	12 U	0.5 U	500 U	1.2 U
Dibromomethane	**5**	10,000 U	2,500 U	25 U	20 U	120 U	5 U	5,000 U	12 U
Dichlorodifluoromethane	**5**	10,000 U	2,500 U	25 UJ	20 U	120 U	5 U	5,000 U	12 U
Ethyl ether	**NA**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Ethylbenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Hexachlorobutadiene	**0.5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Isopropylbenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	1.2 J	2,500 U	6.2 U
Methyl tert butyl ether	**10**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Methylene chloride	**5**	5,000 U	1,200 U	12 UJ	10 U	62 U	2.5 U	2,500 U	6.2 U
Naphthalene	**10**	5,000 U	1,200 UJ	12 U	10 UJ	62 U	0.99 J	2,500 U	6.2 UJ
n-Butylbenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
n-Propylbenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
o-Chlorotoluene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
o-Xylene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
p/m-Xylene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
p-Chlorotoluene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
p-Isopropyltoluene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
sec-Butylbenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	1.5 J	2,500 U	1.9 J
Styrene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
tert-Butylbenzene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Tetrachloroethene	**5**	17,000	730	8.4	7.8 U	370	0.46 U	14,000	1.2 U
Toluene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
trans-1,2-Dichloroethene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
trans-1,3-Dichloropropene	**0.4**	1,000 U	250 U	2.5 U	2 U	12 U	0.5 U	500 U	1.2 U
trans-1,4-Dichloro-2-butene	**5**	5,000 U	1,200 U	12 U	10 U	62 U	2.5 U	2,500 U	6.2 U
Trichloroethene	**5**	6,700	250 U	7.2	6.6	65	0.44 J	5,000	1.2 U
Trichlorofluoromethane	**5**	5,000 U	1,200 U	12 UJ	10 U	62 U	2.5 U	2,500 U	6.2 U
Vinyl acetate	**NA**	10,000 U	2,500 U	25 U	20 U	120 U	5 U	5,000 U	12 U

Table 5-6: IRM Groundwater Sampling Results

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

								Blind Duplicate Samples	
WELL DESIGNATION		**MW-2**		**MW-2D**		**MW-8**		**MW-100 (1)**	**MW-101 (2)**
SAMPLING DATE		**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**	**12-Nov-13**	**26-Feb-14**
LAB SAMPLE ID		**L1323002-01**	**L1404174-01**	**L1323002-02**	**L1404174-02**	**L1323002-03**	**L1404174-03**	**L1323002-03**	**L1404174-04**
Volatile Organics	**NY-AWQS**	**Result**		**Result**		**Result**		**Result**	**Result**
Vinyl chloride	**2**	3,400	1,400	18 J	16	1,200	94 J	3,600	180 J

Notes:
All results in ug/l.
J - Estimated value.
U - Compound was not detected relative to the indicated limit.
R - Sample result was rejected based on validation.
(1) - Duplicate of MW-2.
(2) - Duplicate of MW-8.
NA - Not applicable, no criteria provided.
NY-AWQS - New York State Ambient Water Quality Standard, TOGS 1.1.1.
Analysis conducted by Alpha Analytical, Westborough, MA.

Table 5-9: Air Testing Results - January 30, 2012

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION	Dry Cleaner						NY Sports Club				Outdoor	
SAMPLE TYPE	Sub-Slab Soil Vapor		Indoor Air				Sub-Slab Soil Vapor		Indoor Air		Outdoor Air	
LAB SAMPLE ID	SSV-2-40938		IA-1-40938		IA-3-40938 (1)		SSV-3-40938		IA-2-40938		OA-1-40938	
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	ND	13	ND	0.35	ND	0.35	ND	2.5	ND	0.35	ND	0.35
Styrene	ND	11	ND	0.29	ND	0.29	ND	2.1	0.72	0.29	ND	0.29
Propylene	ND	4.5	ND	0.12	ND	0.12	ND	0.86	ND	0.12	ND	0.12
p-Ethyltoluene	ND	64	16	1.7	24	1.7	ND	12	2.9	1.7	2.1	1.7
p- & m- Xylenes	ND	11	1.4	0.29	1.8	0.29	17	2.2	3.7	0.29	1.2	0.29
o-Xylene	ND	11	1.1	0.29	1.5	0.29	5.6	2.2	1.4	0.29	0.56	0.29
n-Hexane	ND	9.2	1.3	0.24	ND	0.24	ND	1.8	1.3	0.24	ND	0.24
n-Heptane	ND	11	ND	0.28	ND	0.28	ND	2.0	ND	0.28	ND	0.28
Methylene chloride	ND	9.1	2.6	0.24	1.7	0.24	4.3	1.7	2.2	0.24	1.7	0.24
Vinyl bromide	ND	11	ND	0.30	ND	0.30	ND	2.2	ND	0.30	ND	0.30
Methyl tert-butyl ether (MTBE)	ND	9.4	ND	0.24	ND	0.24	ND	1.8	ND	0.24	ND	0.24
4-Methyl-2-pentanone	ND	11	ND	0.28	ND	0.28	ND	2.0	4.3	0.28	ND	0.28
Isopropanol	ND	6.4	ND	0.17	ND	0.17	ND	1.2	380	3.3	ND	0.17
Hexachlorobutadiene	ND	28	ND	0.72	ND	0.72	ND	5.3	ND	0.72	ND	0.72
Ethyl Benzene	ND	11	ND	0.29	0.47	0.29	ND	2.2	1.1	0.29	0.38	0.29
Ethyl acetate	ND	9.4	ND	0.24	ND	0.24	ND	1.8	2.0	0.24	ND	0.24
Vinyl acetate	ND	18	ND	0.48	ND	0.48	ND	3.5	ND	0.48	ND	0.48
Cyclohexane	ND	9.0	ND	0.23	ND	0.23	3.8	1.7	ND	0.23	ND	0.23
cis-1,3-Dichloropropylene	ND	12	ND	0.31	ND	0.31	ND	2.3	ND	0.31	ND	0.31
cis-1,2-Dichloroethylene	150	10	ND	0.27	ND	0.27	ND	2.0	ND	0.27	ND	0.27
Chloromethane	ND	5.4	1.4	0.14	1.6	0.14	ND	1.0	1.6	0.14	1.5	0.14
Chloroform	540	13	1.6	0.33	1.6	0.33	ND	2.4	1.6	0.33	ND	0.33
Chloroethane	ND	6.9	ND	0.18	ND	0.18	ND	1.3	ND	0.18	ND	0.18
Carbon tetrachloride	ND	8.2	ND	0.21	ND	0.21	ND	1.6	ND	0.21	ND	0.21
Carbon disulfide	ND	8.1	6.0	0.21	6.4	0.21	12	1.6	8.9	0.21	6.1	0.21
Bromomethane	ND	10	ND	0.26	ND	0.26	ND	1.9	ND	0.26	ND	0.26
Trichloroethylene	4700 J	7.0	61	0.18	66	0.18	ND	1.3	5.1	0.18	10	0.18
Bromoform	ND	27	ND	0.70	ND	0.70	ND	5.1	ND	0.70	ND	0.70
Bromodichloromethane	ND	16	ND	0.42	ND	0.42	ND	3.1	ND	0.42	ND	0.42
Benzyl chloride	ND	14	ND	0.35	ND	0.35	ND	2.6	ND	0.35	ND	0.35
Benzene	ND	8.4	0.95	0.22	0.97	0.22	ND	1.6	1.7	0.22	1.1	0.22
Acetone	ND	6.2	18	0.16	19	0.16	34	1.2	38	3.2	23	0.16
3-Chloropropene	ND	82	ND	2.1	ND	2.1	ND	16	ND	2.1	ND	2.1
2-Hexanone	ND	21	ND	0.56	ND	0.56	ND	4.1	ND	0.56	ND	0.56
trans-1,3-Dichloropropylene	ND	12	ND	0.31	ND	0.31	ND	2.3	ND	0.31	ND	0.31
2-Butanone	ND	7.7	2.9	0.20	2.9	0.20	7.0	1.5	3.4	0.20	2.3	0.20

Table 5-9: Air Testing Results - January 30, 2012

Aristocrat Cleaners
212 E. Hartsdale Ave., Hartsdale, NY
BCA Site #C360111

LOCATION	Dry Cleaner						NY Sports Club				Outdoor	
SAMPLE TYPE	Sub-Slab Soil Vapor		Indoor Air				Sub-Slab Soil Vapor		Indoor Air		Outdoor Air	
LAB SAMPLE ID	SSV-2-40938		IA-1-40938		IA-3-40938 (1)		SSV-3-40938		IA-2-40938		OA-1-40938	
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
2,2,4-Trimethylpentane	ND	12	ND	0.32	ND	0.32	ND	2.3	ND	0.32	ND	0.32
1,4-Dioxane	R	94	R	2.4	R	2.4	R	18	R	2.4	R	2.4
1,4-Dichlorobenzene	ND	16	ND	0.41	ND	0.41	ND	3.0	ND	0.41	ND	0.41
1,3-Dichlorobenzene	ND	16	ND	0.41	ND	0.41	ND	3.0	ND	0.41	ND	0.41
1,3-Butadiene	ND	11	ND	0.29	ND	0.29	ND	2.2	ND	0.29	ND	0.29
1,3,5-Trimethylbenzene	ND	26	4.3	0.67	6.8	0.67	9.1	4.9	1.2	0.67	0.67	0.67
1,2-Dichlorotetrafluoroethane	ND	18	ND	0.47	ND	0.47	ND	3.5	ND	0.47	ND	0.47
trans-1,2-Dichloroethylene	ND	10	ND	0.27	ND	0.27	ND	2.0	ND	0.27	ND	0.27
1,2-Dichloropropane	ND	12	ND	0.31	ND	0.31	ND	2.3	ND	0.31	ND	0.31
1,2-Dichloroethane	ND	11	ND	0.27	ND	0.27	ND	2.0	ND	0.27	ND	0.27
1,2-Dichlorobenzene	ND	16	ND	0.41	ND	0.41	ND	3.0	ND	0.41	ND	0.41
1,2,4-Trimethylbenzene	ND	64	11	1.7	18	1.7	ND	12	3.3	1.7	ND	1.7
1,2,4-Trichlorobenzene	ND	19	ND	0.50	ND	0.50	ND	3.7	ND	0.50	ND	0.50
1,1-Dichloroethylene	ND	10	ND	0.27	ND	0.27	ND	2.0	ND	0.27	ND	0.27
Toluene	26	9.9	1.9	0.26	2.1	0.26	20	1.9	5.3	0.26	1.9	0.26
1,1-Dichloroethane	ND	11	ND	0.27	ND	0.27	ND	2.0	ND	0.27	ND	0.27
Trichlorofluoromethane (Freon 11)	ND	15	1.6	0.38	1.6	0.38	ND	2.8	2.1	0.38	1.6	0.38
1,1,2-Trichloroethane	ND	14	ND	0.37	ND	0.37	ND	2.7	ND	0.37	ND	0.37
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	ND	0.52	ND	0.52	ND	3.8	ND	0.52	ND	0.52
1,1,2,2-Tetrachloroethane	ND	18	ND	0.47	ND	0.47	ND	3.4	ND	0.47	ND	0.47
1,1,1-Trichloroethane	ND	14	ND	0.37	ND	0.37	ND	2.7	ND	0.37	ND	0.37
Dichlorodifluoromethane	ND	13	2.6	0.34	3.1	0.34	ND	2.5	2.7	0.34	3.0	0.34
Tetrahydrofuran	ND	7.7	1.6	0.20	1.6	0.20	5.1	1.5	1.9	0.20	1.3	0.20
Chlorobenzene	ND	12	ND	0.31	ND	0.31	ND	2.3	ND	0.31	ND	0.31
Tetrachloroethylene	140000	890	1100	23	1200	23	140	3.4	77	9.2	730	11
Helium	ND	0.50	NR		NR		ND	0.50	NR		NR	

Notes:

All results in ug/m^3 except helium which is provided in %.
Analysis conducted by York Analytical Laboratories, Inc.
(1) - Duplicate of sample IA-1-40938.
R - Sample result was rejected based on validation.
J - Estimated value.
RL - Reporting limit.
ND - Analyte was not detected relative to the indicated reporting limit.
NR - No result, constituent not tested.

APPENDIX C

Site Inspection Form and Photographic Documentation

EnviroTrac

SITE-WIDE INSPECTION FORM

Hartsdale Village Square
Aristocrat Cleaners
Westchester County
212 East Hartsdale Avenue
Hartsdale, New York
BCA Site #: C360111

NAME OF INSPECTOR: Victor A. CARDONA

COMPANY OF INSPECTOR: Enviotrac LTD.

DATE OF INSPECTION: 08/30/22

CURRENT USE OF SITE: Dry cleaners/cleaners

HAS A CHANGE OF USE OCCURRED SINCE THE LAST CERTIFICATION?
YES (NO)
IF YES, THEN EXPLAIN:

GENERAL DESCRIPTION OF COVER: Concrete cover (interior) In good shape. No visible breaches, outside asphalt has some cracks, but ok

HAS THE COVER BEEN PENETRATED? YES (NO)
IF YES, THEN EXPLAIN:

HAVE ANY STRUCTURES BEEN CONSTRUCTED ON THE SITE SINCE THE LAST INSPECTION? YES (NO)
IF YES, THEN EXPLAIN:

HAVE COVER CONDITIONS CHANGED SINCE THE LAST INSPECTION?
YES (NO) N/A?
IF YES, THEN EXPLAIN:

IS ANY MAINTENANCE OF THE COVER REQUIRED?
_____YES (NO)

IF YES, THEN EXPLAIN:

_____

_____

ADDITIONAL OBSERVATIONS, CONCLUSIONS OR RECCOMMENDATIONS:
Seal coating of ASPHALT lot

_____

_____

_____

ANY CHANGES TO THE SITE OR REQUIRED MAINTENANCE SHOULD BE MARKED IN THE CORRESPONDING LOCATION ON THE ATTACHED MAP

Photos (August 2022)
Hartsdale Village Square Aristocrat Cleaners
Hartsdale, New York
Site No. C360111

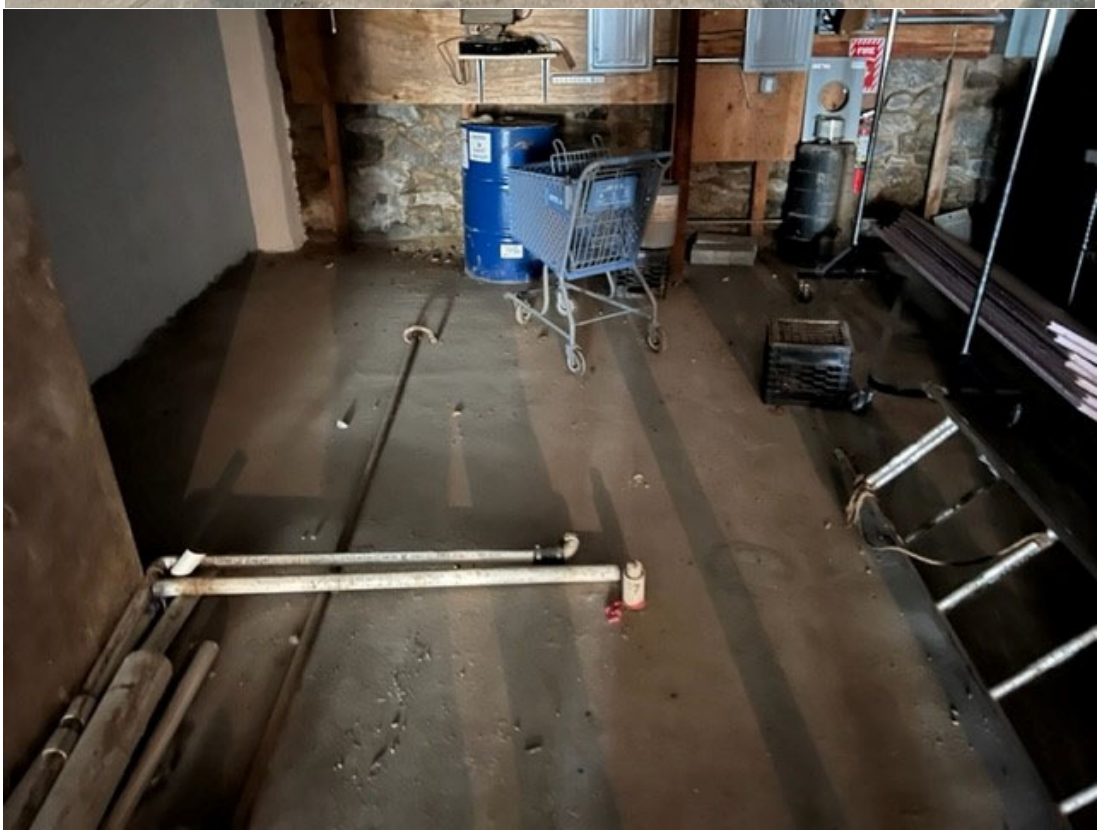
Photographs

2022 Periodic Review Site-Wide Inspection

Photos (August 2022)
Hartsdale Village Square Aristocrat Cleaners
Hartsdale, New York
Site No. C360111

EnviroTrac

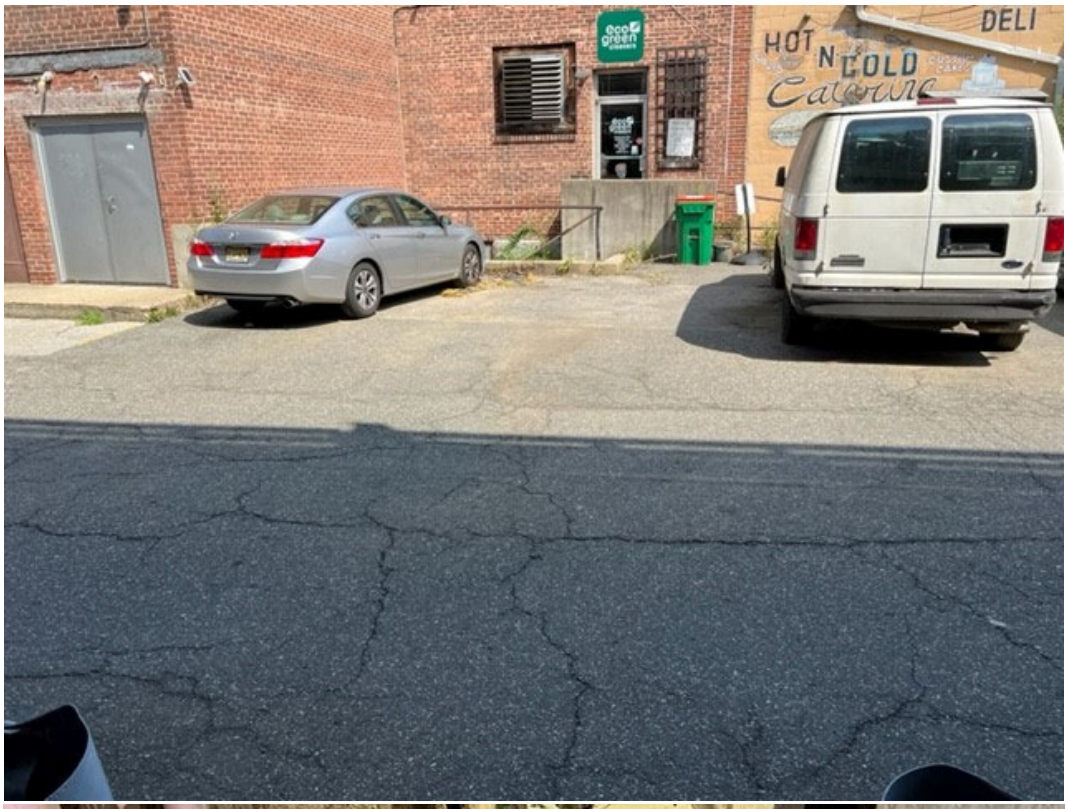
Photos (August 2022)
Hartsdale Village Square Aristocrat Cleaners
Hartsdale, New York
Site No. C360111

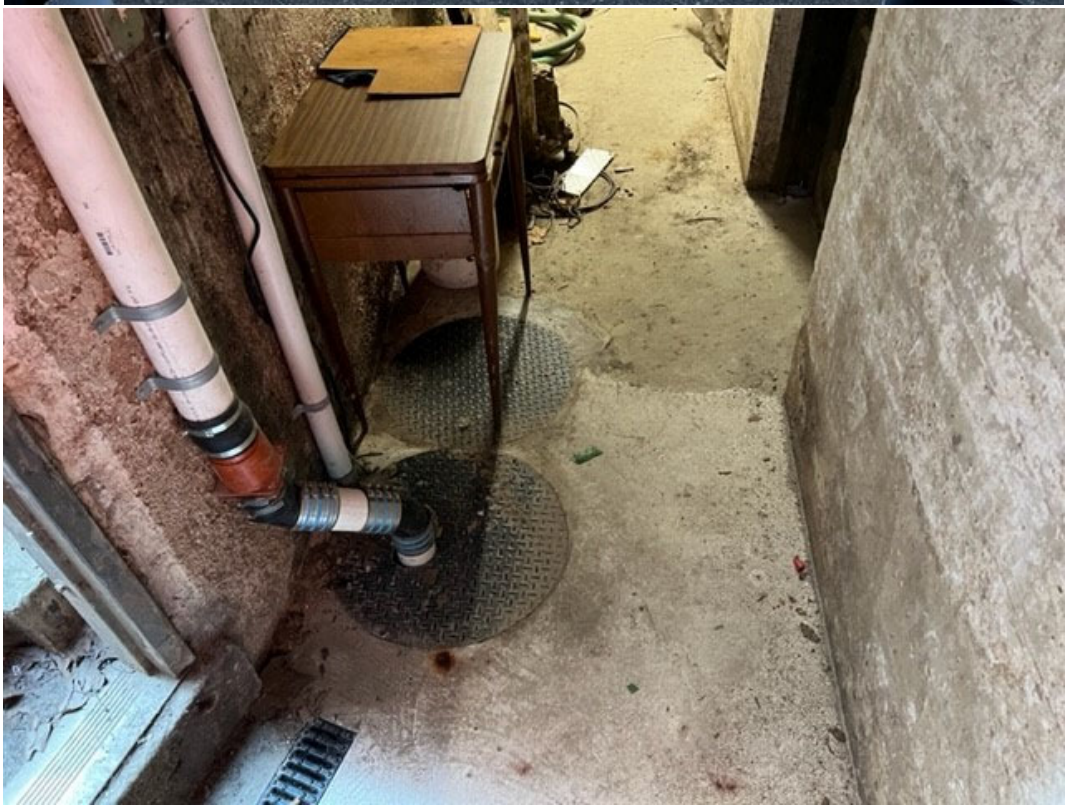


Photos (August 2022)
Hartsdale Village Square Aristocrat Cleaners
Hartsdale, New York
Site No. C360111

Photos (August 2022)
Hartsdale Village Square Aristocrat Cleaners
Hartsdale, New York
Site No. C360111

Photos (August 2022)
Hartsdale Village Square Aristocrat Cleaners
Hartsdale, New York
Site No. C360111





APPENDIX D

Groundwater Monitoring Event Forms

EnviroTrac

GROUNDWATER MONITORING EVENT FORM

Hartsdale Village Square
Aristocrat Cleaners
Westchester County
212 East Hartsdale Avenue
Hartsdale, New York
BCA Site #: C360111

NAME OF LEAD SAMPLER: Victor A. Cardona

COMPANY OF SAMPLER: Enviotrac Ltd.

MONITORING DATE: 8/30/22

WEATHER: 73-88° Sunny

GENERAL DESCRIPTION OF ACTIVITIES PERFORMED: well gauging, well sampling via low flow purge, Contract site inspection w/ Established Institutional controls

LIST OF WELLS SAMPLED: MW-1, MW-2, MW-2D, MW-5, MW-7 and MW-8

SAMPLING METHOD(S): low flow purge via peristaltic pump

PARAMETERS FOR LAB TESTING: VOC's, TCP Indicator Parameters

FIELD PARAMETERS: Temp, PH, conductivity, ORP, D.O. and Turbidity.

ATTACH ASSOCIATED FIELD SAMPLING FORMS:

LABORATORY(S): SGS

ATTACH COPY OF CHAIN(S) OF CUSTODY:

INVESTIGATION DERIVED WASTE GENERATED:

X YES, Purge Water TYPE, 10gal ESTIMATED QUANTITY, Drum Staged on site. STATUS

_____ NO

ADDITIONAL INFORMATION: _____

GW
TB

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

Page 1 of 1

E/PN

FED-EX Tracking #: SW-082322-188
Bottle Order Control #:
SGS Quote #:
SGS Job #: JD50957

Client / Reporting Information
Company Name: EnviroTrac Ltd
Street Address: 5 Old dock Road
City: Yaphank State: NY Zip: 11980
Project Contact: Amy Carlopa E-mail:
Phone #: 631 924 3001
Sampler(s) Name(s): Victor A. Cardona Phone #:

Project Information
Project Name: Aristocrat Cleaners
Street: 212 E. Hartsdale Ave
City: Hartsdale State: N.Y.
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis: V8260TCL20 | AIIL, BOD, CA, FE, MG | MN, CHL, COD, DOC | V8SK11TS D6MGE | HRD, XN030, SO4 | TOC (13L indicator parameters)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	V8260TCL20	AIIL, BOD, CA, FE, MG	MN, CHL, COD, DOC	V8SK11TS D6MGE	HRD, XN030, SO4	TOC	LAB USE ONLY
1	MW-1-220830		8/30	0950	VC			GW	3	3								X						V457
	MW-1-MS-220830		8/30	0952	VC			GW	3	3								X						A15
	MW-1-MSD-220830		8/30	0955	VC			GW	3	3								X						C36
2	MW-2-220830		8/30	1055	VC			GW	16	7		2	2	5				X	X	X	X	X	X	C48 T5
3	MW-2D-220830		8/30	1141	VC			GW	3	3								X						1914
4	MW-5-220830		8/30	0900	VC			GW	3	3								X						
5	MW-7-220830		8/30	1226	VC			GW	3	3								X						
6	MW-8-220830		8/30	1335	VC			GW	3	3								X						
	~~MW-11-220830~~ AC			~~1450~~ AC				~~GW~~																
7	Duplicate-220830		8/30	1450	VC			GW	3	3								X						
8	Trip Blank		8/30					TB	2	2								X						

pH Check (Lab Use Only)

Turn Around Time (Business Days)
- ☐ 10 Business Days
- ☒ 5 Business Days
- ☐ 3 Business Days*
- ☐ 2 Business Days*
- ☐ 1 Business Day*
- ☐ Other

Approved By (SGS PM): / Date:

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable
- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ NJ Reduced (Level 3)
- ☐ Full Tier I (Level 4)
- ☐ Commercial "C"
- ☐ NJ DKQP
- ☐ NYASP Category A
- ☒ NYASP Category B
- ☐ MA MCP Criteria
- ☐ CT RCP Criteria
- ☐ State Forms
- ☒ EDD Format NY-(Sample, Test Results Batch v4)
- ☐ DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions
Initial Assessment 2BVR
Label Verification

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	08/30/22 1700	1 [signature]	2 [signature] 16:45	8/31/22	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact ☐ Absent	Therm ID: On Ice ☐ Cooler Temp. °C; See Sample Receipt Summary ☐

2.3

JD50957: Chain of Custody
Page 1 of 3

5.1
5

GROUNDWATER SAMPLING LOG

SITE NAME: Aristocrat Cleaners	SITE LOCATION: 212 - 218 East Hartsdale Avenue, Hartsdale NY
WELL NO: MW-1	SAMPLE ID: MW-1-220830
	DATE: 08/30/2022

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.83	PURGE PUMP TYPE OR BAILER: Low Flow

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
09:20				9.83	7.93	21.84	0.391	1.95	107	cloudy	no
09:25					7.79	21.11	0.399	1.43	57.9	cloudy	no
09:30					7.73	20.69	0.428	0.95	12.4	cloudy	no
09:35					7.72	20.82	0.430	0.92	0.0	clear	no
09:40					7.74	20.79	0.431	0.90	0.0	clear	no

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Victor Cardoza	SAMPLER(S) SIGNATURE(S): VC	SAMPLING INITIATED AT: 9:20	SAMPLING ENDED AT: 9:50
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL			VOCs	RFPP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:

1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation; optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Aristocrat Cleaners	SITE LOCATION: 212 - 218 East Hartsdale Avenue, Hartsdale NY
WELL NO: MW-2	SAMPLE ID: MW-2-220830
	DATE: 08/30/2022

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.22	PURGE PUMP TYPE OR BAILER: Low Flow

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:20				3.22	7.22	24.51	0.840	0.82	318	cloudy	no
10:25					7.08	23.81	1.01	0.72	139	cloudy	no
10:30					7.16	23.69	1.08	0.70	0.0	clear	no
10:35					7.13	23.68	1.08	0.73	0.0	clear	no
10:40					7.16	23.68	1.08	0.74	0.0	clear	no

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:20	SAMPLING ENDED AT: 10:40
Victor Cardoza	VC		

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	15	CG	40ml	HCL			VOCs ISCR	RFPP	
	2	CG	60ml				ISCR	RFPP	
	2	PE	500ml	HNO3			ISCR	RFPP	
	2	PE	250ml 500ml	H2SO4			ISCR	RFPP	
	4	PE	250ml 500ml				ISCR	RFPP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:

1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation; optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Aristocrat Cleaners	SITE LOCATION: 212 - 218 East Hartsdale Avenue, Hartsdale NY	
WELL NO: MW-2D	SAMPLE ID: MW-2D-220830	DATE: 08/30/2022

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.61	PURGE PUMP TYPE OR BAILER: Low Flow

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:15				2.61	8.34	23.07	0.857	2.91	0.0	clear	no
11:20					8.26	22.80	0.859	2.77	0.0	clear	no
11:25					8.25	22.74	0.870	1.42	0.0	clear	no
11:30					8.17	22.55	1.01	0.76	0.0	clear	no
11:35					8.17	22.53	1.02	0.71	0.0	clear	no

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Victor Cardoza	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:15	SAMPLING ENDED AT: 11:35
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL			VOCs	RFPP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:

1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation; optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Aristocrat Cleaners	SITE LOCATION: 212 - 218 East Hartsdale Avenue, Hartsdale NY	
WELL NO: MW-5	SAMPLE ID: MW-5-220830	DATE: 08/30/2022

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.28	PURGE PUMP TYPE OR BAILER: Low Flow

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
08:35				10.28	8.08	20.20	0.568	1.62	1000	cloudy	no
08:40					7.98	19.22	0.614	1.47	1000	cloudy	no
08:45					7.92	18.86	0.616	1.28	751	cloudy	no
08:50					7.89	18.87	0.616	1.28	665	cloudy	no
08:55					7.88	18.87	0.615	1.22	649	cloudy	no

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Victor Cardoza	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:20	SAMPLING ENDED AT: 9:50
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40ml	HCL			VOCs	RFPP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:

1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation; optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Aristocrat Cleaners	SITE LOCATION: 212 - 218 East Hartsdale Avenue, Hartsdale NY	
WELL NO: MW-7	SAMPLE ID: MW-7-220830	DATE: 08/30/2022

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.83	PURGE PUMP TYPE OR BAILER: Low Flow

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:00				3.83	8.00	25.20	1.16	2.44	485	cloudy	no
12:05					8.01	25.77	1.17	1.10	363	cloudy	no
12:10					8.00	25.83	1.18	0.79	208	cloudy	no
12:15					7.98	25.84	1.17	0.76	115	cloudy	no
12:20					7.97	25.82	1.16	0.76	112	cloudy	no

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Victor Cardoza	SAMPLER(S) SIGNATURE(S): VC	SAMPLING INITIATED AT: 12:00	SAMPLING ENDED AT: 12:20
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40ml	HCL			VOCs	RFPP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:

1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation; optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Aristocrat Cleaners	SITE LOCATION: 212 - 218 East Hartsdale Avenue, Hartsdale NY	
WELL NO: MW-8	SAMPLE ID: MW-8-220830	DATE: 08/30/2022

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.07	PURGE PUMP TYPE OR BAILER: Low Flow

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:10				2.07	7.96	24.84	0.456	1.68	358	cloudy	no
13:15					7.93	25.32	0.398	0.64	207	cloudy	no
13:20					7.90	25.79	0.391	0.71	78.2	cloudy	no
13:25					7.91	25.82	0.393	0.70	69.3	cloudy	no
13:30					7.90	25.83	0.393	0.70	53.6	cloudy	no

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Victor Cardoza	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:10	SAMPLING ENDED AT: 13:30
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40ml	HCL			VOCs	RFPP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:

1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation; optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

APPENDIX E

Laboratory Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EnviroTrac Ltd.

Aristocrat Cleaners, Hartsdale NY

SGS Job Number: JD50957

Sampling Date: 08/30/22

Report to:

EnviroTrac Ltd.

acalapa@envirotrac.com

ATTN: Amy Calapa

Total number of pages in report: 33

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

Table of Contents

Sample Summary

EnviroTrac Ltd.

Job No: JD50957

Aristocrat Cleaners, Hartsdale NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the RL							
JD50957-1	08/30/22	09:50	VC	08/31/22	AQ	Ground Water	MW-1-220830
JD50957-1D	08/30/22	09:55	VC	08/31/22	AQ	Water Dup/MSD	MW-1-MSD-220830
JD50957-1S	08/30/22	09:52	VC	08/31/22	AQ	Water Matrix Spike	MW-1-MS-220830
JD50957-2	08/30/22	10:55	VC	08/31/22	AQ	Ground Water	MW-2-220830
JD50957-2F	08/30/22	10:55	VC	08/31/22	AQ	Groundwater Filtered	MW-2-220830
JD50957-3	08/30/22	11:41	VC	08/31/22	AQ	Ground Water	MW-2D-220830
JD50957-4	08/30/22	09:00	VC	08/31/22	AQ	Ground Water	MW-5-220830
JD50957-5	08/30/22	12:26	VC	08/31/22	AQ	Ground Water	MW-7-220830
JD50957-6	08/30/22	13:35	VC	08/31/22	AQ	Ground Water	MW-8-220830
JD50957-7	08/30/22	14:50	VC	08/31/22	AQ	Ground Water	DUPLICATE-220830
JD50957-8	08/30/22	14:50	VC	08/31/22	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: EnviroTrac Ltd. **Job No:** JD50957

Site: Aristocrat Cleaners, Hartsdale NY **Report Date** 9/14/2022 12:03:12 P

On 08/31/2022, 7 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD50957 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** VL10475

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50957-1MS, JD50957-1MSD were used as the QC samples indicated.
- JD50957-7: Dilution required due to high concentration of target compound.
- JD50957-2: Dilution required due to high concentration of target compound.
- JD50957-6: Dilution required due to high concentration of target compound.
- VL10475-BS for trans-1,3-Dichloropropene: Outside of in house control limits, but within reasonable method recovery limits.

Matrix: AQ **Batch ID:** VL10479

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD50988-9DUP, JD51111-1MS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD50957-8 for Chloromethane: Associated CCV outside of control limits high, sample was ND.
- JD50957-8 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD50957-8 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.
- JD50957-8 for Freon 113: Associated CCV outside of control limits high, sample was ND.
- JD50957-8 for 1,2-Dichloropropane: Associated CCV outside of control limits high, sample was ND.
- JD50957-8 for 4-Methyl-2-pentanone(MIBK): Associated CCV outside of control limits high, sample was ND.
- JD50957-8 for Bromochloromethane: Associated CCV outside of control limits high, sample was ND.

GC Volatiles By Method RSK-175

Matrix: AQ **Batch ID:** GAA2629

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50879-4DUP were used as the QC samples indicated.

Metals Analysis By Method SW846 6010D

Matrix:	AQ	Batch ID:	MP34901

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50946-6MS, JD50946-6MSD, JD50946-6SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Iron are outside control limits for sample MP34901-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

General Chemistry By Method EPA 300/SW846 9056A

Matrix:	AQ	Batch ID:	GP42201

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51023-1DUP, JD51023-1MS were used as the QC samples for Sulfate, Chloride.

General Chemistry By Method EPA 353.2/LACHAT

Matrix:	AQ	Batch ID:	GP42191

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) FA98448-1DUP, FA98448-1MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

General Chemistry By Method EPA353.2/SM4500NO2B

Matrix:	AQ	Batch ID:	R199195

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD50957-2 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

General Chemistry By Method SM2320 B-11

Matrix:	AQ	Batch ID:	GN32976

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50957-2DUP were used as the QC samples for Alkalinity, Total as CaCO3.
- JD50957-2 for Alkalinity, Total as CaCO3: Sample was titrated to a final pH of 4.2.Sample received with head space.

General Chemistry By Method SM2340 C-11

Matrix:	AQ	Batch ID:	GN33053

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50829-2DUP, JD50829-2MS were used as the QC samples for Hardness, Total as CaCO3.

General Chemistry By Method SM4500NO2 B-11

Matrix:	AQ	Batch ID:	GN32972

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50928-1MS, JD50928-1MSD were used as the QC samples for Nitrogen, Nitrite.

General Chemistry By Method SM5210 B-11/16

Matrix: AQ	Batch ID: GP42121

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50932-5DUP were used as the QC samples for BOD, 5 Day.

General Chemistry By Method SM5220 C-11,HACH8000

Matrix: AQ	Batch ID: GP42117

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50932-2DUP, JD50932-2MS were used as the QC samples for Chemical Oxygen Demand.

General Chemistry By Method SM5310 B-11

Matrix: AQ	Batch ID: GP42245

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51281-1FMS, JD51281-1FMSD were used as the QC samples for Dissolved Organic Carbon.

General Chemistry By Method SM5310 B-11/14

Matrix: AQ	Batch ID: GP42218

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50829-2MS, JD50829-2MSD were used as the QC samples for Total Organic Carbon.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD50957
Account: EnviroTrac Ltd.
Project: Aristocrat Cleaners, Hartsdale NY
Collected: 08/30/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD50957-1	**MW-1-220830**					
cis-1,2-Dichloroethene		414	10		ug/l	SW846 8260D
trans-1,2-Dichloroethene		3.3	1.0		ug/l	SW846 8260D
Tetrachloroethene		102	1.0		ug/l	SW846 8260D
Trichloroethene		19.1	1.0		ug/l	SW846 8260D
Vinyl chloride		15.9	1.0		ug/l	SW846 8260D
JD50957-2	**MW-2-220830**					
cis-1,2-Dichloroethene		54800	1000		ug/l	SW846 8260D
Tetrachloroethene [a]		212	100		ug/l	SW846 8260D
Trichloroethene [a]		163	100		ug/l	SW846 8260D
Vinyl chloride [a]		4390	100		ug/l	SW846 8260D
Methane		1390	2.8		ug/l	RSK-175
Ethane		157	0.23		ug/l	RSK-175
Ethene		172	0.31		ug/l	RSK-175
Calcium		83200	5000		ug/l	SW846 6010D
Iron		55300	100		ug/l	SW846 6010D
Magnesium		11100	5000		ug/l	SW846 6010D
Manganese		1110	15		ug/l	SW846 6010D
BOD, 5 Day		3.3	1.0		mg/l	SM5210 B-11/16
Chemical Oxygen Demand		42.5	20		mg/l	SM5220 C-11,HACH8000
Chloride		199	2.0		mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		250	5.0		mg/l	SM2340 C-11
Sulfate		38.9	2.0		mg/l	EPA 300/SW846 9056A
Total Organic Carbon		6.9	1.0		mg/l	SM5310 B-11/14
JD50957-2F	**MW-2-220830**					
Dissolved Organic Carbon		2.8	1.0		mg/l	SM5310 B-11
JD50957-3	**MW-2D-220830**					
1,1-Dichloroethene		1.8	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene		480	10		ug/l	SW846 8260D
trans-1,2-Dichloroethene		1.9	1.0		ug/l	SW846 8260D
Tetrachloroethene		38.7	1.0		ug/l	SW846 8260D
Trichloroethene		12.7	1.0		ug/l	SW846 8260D
Vinyl chloride		30.0	1.0		ug/l	SW846 8260D
JD50957-4	**MW-5-220830**					
cis-1,2-Dichloroethene		122	1.0		ug/l	SW846 8260D
Tetrachloroethene		8.6	1.0		ug/l	SW846 8260D

Summary of Hits

Job Number: JD50957
Account: EnviroTrac Ltd.
Project: Aristocrat Cleaners, Hartsdale NY
Collected: 08/30/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Trichloroethene		5.2	1.0		ug/l	SW846 8260D
Vinyl chloride		1.7	1.0		ug/l	SW846 8260D
JD50957-5	**MW-7-220830**					
cis-1,2-Dichloroethene		39.5	1.0		ug/l	SW846 8260D
Tetrachloroethene		13.7	1.0		ug/l	SW846 8260D
Trichloroethene		2.3	1.0		ug/l	SW846 8260D
JD50957-6	**MW-8-220830**					
cis-1,2-Dichloroethene [a]		714	5.0		ug/l	SW846 8260D
trans-1,2-Dichloroethene [a]		5.0	5.0		ug/l	SW846 8260D
Tetrachloroethene [a]		706	5.0		ug/l	SW846 8260D
Trichloroethene [a]		328	5.0		ug/l	SW846 8260D
Vinyl chloride [a]		102	5.0		ug/l	SW846 8260D
JD50957-7	**DUPLICATE-220830**					
cis-1,2-Dichloroethene [a]		711	5.0		ug/l	SW846 8260D
Tetrachloroethene [a]		699	5.0		ug/l	SW846 8260D
Trichloroethene [a]		325	5.0		ug/l	SW846 8260D
Vinyl chloride [a]		101	5.0		ug/l	SW846 8260D
JD50957-8	**TRIP BLANK**					

No hits reported in this sample.

(a) Dilution required due to high concentration of target compound.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1-220830		
Lab Sample ID:	JD50957-1	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346487.D	1	09/02/22 12:37	NH	n/a	n/a	VL10475
Run #2	L346615.D	10	09/06/22 14:16	NH	n/a	n/a	VL10479

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	414 [a]	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.3	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1-220830		
Lab Sample ID:	JD50957-1	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	102	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	19.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	15.9	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	94%	90%	80-120%
2037-26-5	Toluene-D8	101%	100%	80-120%
460-00-4	4-Bromofluorobenzene	91%	91%	82-114%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-220830		
Lab Sample ID:	JD50957-2	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L346489.D	100	09/02/22 13:23	NH	n/a	n/a	VL10475
Run #2	L346488.D	1000	09/02/22 13:00	NH	n/a	n/a	VL10475

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1000	ug/l	
71-43-2	Benzene	ND	50	ug/l	
74-97-5	Bromochloromethane	ND	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
74-83-9	Bromomethane	ND	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	ug/l	
75-15-0	Carbon disulfide	ND	200	ug/l	
56-23-5	Carbon tetrachloride	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
110-82-7	Cyclohexane	ND	500	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	54800 [b]	1000	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/l	
100-41-4	Ethylbenzene	ND	100	ug/l	
76-13-1	Freon 113	ND	500	ug/l	
591-78-6	2-Hexanone	ND	500	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-220830		
Lab Sample ID:	JD50957-2	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	100	ug/l	
79-20-9	Methyl Acetate	ND	500	ug/l	
108-87-2	Methylcyclohexane	ND	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	ug/l	
75-09-2	Methylene chloride	ND	200	ug/l	
100-42-5	Styrene	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethene	212	100	ug/l	
108-88-3	Toluene	ND	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/l	
79-01-6	Trichloroethene	163	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	ug/l	
75-01-4	Vinyl chloride	4390	100	ug/l	
	m,p-Xylene	ND	100	ug/l	
95-47-6	o-Xylene	ND	100	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	88%	93%	80-120%
2037-26-5	Toluene-D8	99%	100%	80-120%
460-00-4	4-Bromofluorobenzene	91%	92%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-220830		
Lab Sample ID:	JD50957-2	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA96763.D	1	09/01/22 18:43	JN	n/a	n/a	GAA2629
Run #2	AA96764.D	25	09/01/22 18:56	JN	n/a	n/a	GAA2629

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	1390 [a]	2.8	ug/l	
74-84-0	Ethane	157	0.23	ug/l	
74-85-1	Ethene	172	0.31	ug/l	

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-220830		
Lab Sample ID:	JD50957-2	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
		Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	83200	5000	ug/l	1	09/01/22	09/02/22	ND	SW846 6010D [1]	SW846 3010A [2]
Iron	55300	100	ug/l	1	09/01/22	09/02/22	ND	SW846 6010D [1]	SW846 3010A [2]
Magnesium	11100	5000	ug/l	1	09/01/22	09/02/22	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	1110	15	ug/l	1	09/01/22	09/02/22	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA52935
(2) Prep QC Batch: MP34901

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-2-220830
Lab Sample ID: JD50957-2
Matrix: AQ - Ground Water
Project: Aristocrat Cleaners, Hartsdale NY

Date Sampled: 08/30/22
Date Received: 08/31/22
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	< 5.0	5.0	mg/l	1	09/01/22 13:35	MT	SM2320 B-11
BOD, 5 Day	3.3	1.0	mg/l	1	09/01/22 09:55	DB	SM5210 B-11/16
Chemical Oxygen Demand	42.5	20	mg/l	1	09/01/22 16:17	MT	SM5220 C-11,HACH8000
Chloride	199	2.0	mg/l	1	09/08/22 22:41	JD	EPA 300/SW846 9056A
Hardness, Total as CaCO3	250	5.0	mg/l	1	09/03/22 14:06	MK	SM2340 C-11
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	09/08/22 12:19	JD	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	09/08/22 12:19	JD	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	09/01/22 09:20	MP	SM4500NO2 B-11
Sulfate	38.9	2.0	mg/l	1	09/08/22 22:41	JD	EPA 300/SW846 9056A
Total Organic Carbon	6.9	1.0	mg/l	1	09/10/22 07:21	MB	SM5310 B-11/14

(a) Sample was titrated to a final pH of 4.2.Sample received with head space.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2-220830		
Lab Sample ID:	JD50957-2F	**Date Sampled:**	08/30/22
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/31/22
		Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	2.8	1.0	mg/l	1	09/14/22 01:23	MB	SM5310 B-11

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2D-220830		
Lab Sample ID:	JD50957-3	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346499.D	1	09/02/22 17:16	NH	n/a	n/a	VL10475
Run #2	L346618.D	10	09/06/22 15:25	NH	n/a	n/a	VL10479

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.8	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	480 [a]	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.9	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2D-220830		
Lab Sample ID:	JD50957-3	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	38.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	12.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	30.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	0.65	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	91%	88%	80-120%
2037-26-5	Toluene-D8	101%	99%	80-120%
460-00-4	4-Bromofluorobenzene	91%	92%	82-114%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-220830		
Lab Sample ID:	JD50957-4	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346500.D	1	09/02/22 17:40	NH	n/a	n/a	VL10475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	122	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-220830		
Lab Sample ID:	JD50957-4	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	8.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	5.2	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	1.7	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7-220830		
Lab Sample ID:	JD50957-5	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346501.D	1	09/02/22 18:03	NH	n/a	n/a	VL10475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	39.5	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7-220830		
Lab Sample ID:	JD50957-5	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	13.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	2.3	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	90%		82-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8-220830		
Lab Sample ID:	JD50957-6	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L346502.D	5	09/02/22 18:26	NH	n/a	n/a	VL10475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.5	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
74-83-9	Bromomethane	ND	10	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
108-90-7	Chlorobenzene	ND	5.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
110-82-7	Cyclohexane	ND	25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	714	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	5.0	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	ug/l	
76-13-1	Freon 113	ND	25	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-8-220830
Lab Sample ID: JD50957-6
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: Aristocrat Cleaners, Hartsdale NY

Date Sampled: 08/30/22
Date Received: 08/31/22
Percent Solids: n/a

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
79-20-9	Methyl Acetate	ND	25	ug/l	
108-87-2	Methylcyclohexane	ND	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethene	706	5.0	ug/l	
108-88-3	Toluene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/l	
79-01-6	Trichloroethene	328	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	ug/l	
75-01-4	Vinyl chloride	102	5.0	ug/l	
	m,p-Xylene	ND	5.0	ug/l	
95-47-6	o-Xylene	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	89%		82-114%

(a) Dilution required due to high concentration of target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE-220830		
Lab Sample ID:	JD50957-7	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L346503.D	5	09/02/22 18:49	NH	n/a	n/a	VL10475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.5	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
74-83-9	Bromomethane	ND	10	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
108-90-7	Chlorobenzene	ND	5.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
110-82-7	Cyclohexane	ND	25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	711	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	ug/l	
76-13-1	Freon 113	ND	25	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE-220830		
Lab Sample ID:	JD50957-7	**Date Sampled:**	08/30/22
Matrix:	AQ - Ground Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
79-20-9	Methyl Acetate	ND	25	ug/l	
108-87-2	Methylcyclohexane	ND	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethene	699	5.0	ug/l	
108-88-3	Toluene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/l	
79-01-6	Trichloroethene	325	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	ug/l	
75-01-4	Vinyl chloride	101	5.0	ug/l	
	m,p-Xylene	ND	5.0	ug/l	
95-47-6	o-Xylene	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

(a) Dilution required due to high concentration of target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD50957-8	**Date Sampled:**	08/30/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346609.D	1	09/06/22 11:57	NH	n/a	n/a	VL10479
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone [a]	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane [a]	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane [a]	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113 [a]	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD50957-8	**Date Sampled:**	08/30/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/31/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [a]	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW TB

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

Page 1 of 1

E/PN

FED-EX Tracking #: SW-082322-188
Bottle Order Control #:
SGS Quote #:
SGS Job #: JD50957

Client / Reporting Information

Company Name: EnviroTrac Ltd
Street Address: 5 Old dock Road
City: Yaphank State: NY Zip: 11980
Project Contact: Amy Carlopa E-mail:
Phone #: 631 924 3001
Sampler(s) Name(s): Victor A. Cardona Phone #:

Project Information

Project Name: Aristocrat Cleaners
Street: 212 E. Hartsdale Ave
City: Hartsdale State: N.Y.
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis: V8260TCL20 | AIIL, BOD, CA, FE, MG | MN, CHL, COD, DOC | V8SKITS DGMEE | HRD, XNO30, SO4 | TOD (13L initial parameters)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260TCL20	AIIL,BOD,CA,FE,MG	MN,CHL,COD,DOC	V8SKITS DGMEE	HRD,XNO30,SO4	TOD	LAB USE ONLY
1	MW-1-220830		8/30	0950	VC			GW	3	3								X						V457
	MW-1-MS-220830		8/30	0952	VC			GW	3	3								X						A15
	MW-1-MSD-220830		8/30	0955	VC			GW	3	3								X						C36
2	MW-2-220830		8/30	1055	VC			GW	16	7		2	2	5				X	X	X	X	X	X	C48 T5
3	MW-2D-220830		8/30	1141	VC			GW	3	3								X						1914
4	MW-5-220830		8/30	0900	VC			GW	3	3								X						
5	MW-7-220830		8/30	1226	VC			GW	3	3								X						
6	MW-8-220830		8/30	1335	VC			GW	3	3								X						
	~~MW-11-220830~~ VC			~~1450~~ VC				~~GW~~ VC																
7	Duplicate-220830		8/30	1450	VC			GW	3	3								X						
8	Trip Blank		8/30					TB	2	2								X						

Turn Around Time (Business Days)

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

Approved By (SGS PM): / Date:

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [x] EDD Format NY-(Sample, Test Results Batch v4)
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Initial Assessment 2BDK
Label Verification

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	08/30/22 1700	1 [signature]	2 [signature] 16:45	8/31/22	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact ☐ Absent	Therm ID: On Ice ☐ Cooler Temp. °C; See Sample Receipt Summary ☐

2.3

JD50957: Chain of Custody
Page 1 of 3

5.1 5

SGS Sample Receipt Summary

Job Number: JD50957 **Client:** ENVIROTRAC **Project:** ARISTOCRAT CLEANERS, HARTSDALE NY

Date / Time Received: 8/31/2022 4:45:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments 1). Sample -2; 3 x 40ml HCL bottles were received for both the 8260 and VRSK175 analysis. Limited volume for analyses.

Responded to by: VP Response Date: 9/1

-2: Please note LIMITED volume. Use one vial for 8260(run first), and one vial for RSK

JD50957: Chain of Custody
Page 3 of 3

APPENDIX F

Data Usability Summary Report

EnviroTrac

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
ARISTOCRAT CLEANERS, HARTSDALE, NEW YORK

Client: EnviroTrac Ltd., Yaphank, New York
SDG: JD50957
Laboratory: SGS North America, Dayton, New Jersey
Site: Aristocrat Cleaners, Hartsdale, New York
Date: October 3, 2022

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-1-220830	JD50957-1	Water
1MS	MW-1-220830MS	JD50957-1MS	Water
1MSD	MW-1-220830MSD	JD50957-1MSD	Water
2	MW-2-220830	JD50957-2	Water
3	MW-2D-220830	JD50957-3	Water
4	MW-5-220830	JD50957-4	Water
5	MW-7-220830	JD50957-5	Water
6	MW-8-220830	JD50957-6	Water
7	DUPLICATE-220830	JD50957-7	Water
8	TRIP BLANK	JD50957-8	Water

A Data Usability Summary Review was performed on the analytical data for seven water samples and one aqueous trip blank sample collected on August 30, 2022 by EnviroTrac at the Aristocrat Cleaners site in Hartsdale, New York. The samples were analyzed under the Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and he USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- All %D and RRF criteria were met.

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
VL10479-MS	Carbon disulfide	0.49	None	All Associated ND

Field Blank

- Field QC samples were free of contamination.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The following table presents LCS samples that exhibited percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

LCS Sample	Compound	%R	Qualifier	Affected Samples
VL10475-BS	trans-1,3-Dichloropropene	81%	UJ	All Samples

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of several compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are shown below. The precision was acceptable.

Compound	MW-8-220830 ug/L	DUPLICATE-220830 ug/L	RPD	Qualifier
cis-1,2-Dichloroethene	714	711	0%	None
trans-1,2-Dichloroethene	5.0	5.0U	NC	
Tetrachloroethene	706	699	1%	
Trichloroethene	328	325	1%	
Vinyl Chloride	102	101	1%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 10/4/22

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Report of Analysis

Client Sample ID:	MW-1-220830		
Lab Sample ID:	JD50957-1	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346487.D	1	09/02/22 12:37	NH	n/a	n/a	VL10475
Run #2	L346615.D	10	09/06/22 14:16	NH	n/a	n/a	VL10479

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	414 [a]	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.3	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND UJ	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

MW 10/3/22

Report of Analysis

Client Sample ID:	MW-1-220830		
Lab Sample ID:	JD50957-1	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	102	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	19.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	15.9	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	94%	90%	80-120%
2037-26-5	Toluene-D8	101%	100%	80-120%
460-00-4	4-Bromofluorobenzene	91%	91%	82-114%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

MH 10/3/22

Report of Analysis

Client Sample ID:	MW-2-220830		
Lab Sample ID:	JD50957-2	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L346489.D	100	09/02/22 13:23	NH	n/a	n/a	VL10475
Run #2	L346488.D	1000	09/02/22 13:00	NH	n/a	n/a	VL10475

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1000	ug/l	
71-43-2	Benzene	ND	50	ug/l	
74-97-5	Bromochloromethane	ND	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
74-83-9	Bromomethane	ND	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	ug/l	
75-15-0	Carbon disulfide	ND	200	ug/l	
56-23-5	Carbon tetrachloride	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
110-82-7	Cyclohexane	ND	500	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	54800 [b]	1000	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND UJ	100	ug/l	
100-41-4	Ethylbenzene	ND	100	ug/l	
76-13-1	Freon 113	ND	500	ug/l	
591-78-6	2-Hexanone	ND	500	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

MW 10/3/22

Report of Analysis

Client Sample ID:	MW-2-220830		
Lab Sample ID:	JD50957-2	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	100	ug/l	
79-20-9	Methyl Acetate	ND	500	ug/l	
108-87-2	Methylcyclohexane	ND	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	ug/l	
75-09-2	Methylene chloride	ND	200	ug/l	
100-42-5	Styrene	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethene	212	100	ug/l	
108-88-3	Toluene	ND	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/l	
79-01-6	Trichloroethene	163	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	ug/l	
75-01-4	Vinyl chloride	4390	100	ug/l	
	m,p-Xylene	ND	100	ug/l	
95-47-6	o-Xylene	ND	100	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	88%	93%	80-120%
2037-26-5	Toluene-D8	99%	100%	80-120%
460-00-4	4-Bromofluorobenzene	91%	92%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2D-220830		
Lab Sample ID:	JD50957-3	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346499.D	1	09/02/22 17:16	NH	n/a	n/a	VL10475
Run #2	L346618.D	10	09/06/22 15:25	NH	n/a	n/a	VL10479

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.8	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	480 [a]	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.9	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND UJ	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

MW 10/31/22

Report of Analysis

Client Sample ID:	MW-2D-220830		
Lab Sample ID:	JD50957-3	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

4.4
4

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	38.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	12.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	30.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	0.65	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	91%	88%	80-120%
2037-26-5	Toluene-D8	101%	99%	80-120%
460-00-4	4-Bromofluorobenzene	91%	92%	82-114%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

NW 10/3/22

Report of Analysis

Client Sample ID:	MW-5-220830		
Lab Sample ID:	JD50957-4	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346500.D	1	09/02/22 17:40	NH	n/a	n/a	VL10475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	122	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND UJ	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

MW 10/31/22

Report of Analysis

Client Sample ID:	MW-5-220830		
Lab Sample ID:	JD50957-4	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

4.5

4

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	8.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	5.2	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	1.7	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

MW 10/3/22

5

SGS LabLink@1146358 17:00 26-Sep-2022

Report of Analysis

4.6 4

Client Sample ID:	MW-7-220830		
Lab Sample ID:	JD50957-5	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346501.D	1	09/02/22 18:03	NH	n/a	n/a	VL10475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	39.5	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	UJ
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

NW 10/3/22

Report of Analysis

Client Sample ID:	MW-7-220830		
Lab Sample ID:	JD50957-5	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

4.6
4

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	13.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	2.3	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	90%		82-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

NW 10/3/22

Report of Analysis

Client Sample ID:	MW-8-220830		
Lab Sample ID:	JD50957-6	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L346502.D	5	09/02/22 18:26	NH	n/a	n/a	VL10475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.5	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
74-83-9	Bromomethane	ND	10	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
108-90-7	Chlorobenzene	ND	5.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
110-82-7	Cyclohexane	ND	25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	714	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	5.0	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	UJ
100-41-4	Ethylbenzene	ND	5.0	ug/l	
76-13-1	Freon 113	ND	25	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

MW 10/3/22

Report of Analysis

Client Sample ID:	MW-8-220830		
Lab Sample ID:	JD50957-6	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
79-20-9	Methyl Acetate	ND	25	ug/l	
108-87-2	Methylcyclohexane	ND	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethene	706	5.0	ug/l	
108-88-3	Toluene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/l	
79-01-6	Trichloroethene	328	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	ug/l	
75-01-4	Vinyl chloride	102	5.0	ug/l	
	m,p-Xylene	ND	5.0	ug/l	
95-47-6	o-Xylene	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	89%		82-114%

(a) Dilution required due to high concentration of target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE-220830		
Lab Sample ID:	JD50957-7	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L346503.D	5	09/02/22 18:49	NH	n/a	n/a	VL10475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.5	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
74-83-9	Bromomethane	ND	10	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
108-90-7	Chlorobenzene	ND	5.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
110-82-7	Cyclohexane	ND	25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	711	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND UJ	5.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	ug/l	
76-13-1	Freon 113	ND	25	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

MW 10/3/22

Report of Analysis

Client Sample ID:	DUPLICATE-220830		
Lab Sample ID:	JD50957-7	Date Sampled:	08/30/22
Matrix:	AQ - Ground Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

4:8 4

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
79-20-9	Methyl Acetate	ND	25	ug/l	
108-87-2	Methylcyclohexane	ND	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethene	699	5.0	ug/l	
108-88-3	Toluene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/l	
79-01-6	Trichloroethene	325	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	ug/l	
75-01-4	Vinyl chloride	101	5.0	ug/l	
	m,p-Xylene	ND	5.0	ug/l	
95-47-6	o-Xylene	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

(a) Dilution required due to high concentration of target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

NW 10/3/22

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD50957-8	Date Sampled:	08/30/22
Matrix:	AQ - Trip Blank Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L346609.D	1	09/06/22 11:57	NH	n/a	n/a	VL10479
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone [a]	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane [a]	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	ug/l	
110-82-7	Cyclohexane	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane [a]	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND UJ	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113 [a]	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

NW 10/3/22

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD50957-8	Date Sampled:	08/30/22
Matrix:	AQ - Trip Blank Water	Date Received:	08/31/22
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Aristocrat Cleaners, Hartsdale NY		

4.9
4

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
79-20-9	Methyl Acetate	ND	5.0	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [a]	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

NW 10/31/22

APPENDIX G

Institutional and Engineering Controls Certification Form

EnviroTrac

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7)**:**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C360111**

Site Name Hartsdale Village Square, Aristocrat Cleaners

Site Address: 212 E. Hartsdale Avenue Zip Code: 10530
City/Town: Hartsdale
County: Westchester
Site Acreage: 0.170

Reporting Period: December 30, 2014 to ~~June 19, 2020~~ September 30, 2022

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative — Date: 9/29/2022

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C360111 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
8.3-229-6	Hartsdale Village Square, LLC	Soil Management Plan Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
8.3-229-6	Cover System

1. A provision for reevaluation of soil vapor intrusion in the existing on-site buildings and evaluations for any new buildings developed on the site, including provision fro implementing actions recommended to address exposures related to soil vapor intrusion.
2. Provisions for additional applications of the ISCR amendment to address a rise or plateauing of contaminant concentrations or to ensure complete degradation of breakdown products.
3. Maintaining site access controls and Department notification.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative — Date: 9/28/2022

IC CERTIFICATIONS
SITE NO. C360111

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Amy Calapa (print name) at EnviroTrac Ltd 5010 Dock Road, Yaphank NY 11980 (print business address)

am certifying as Hartsdale Village Square 2 LLC (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

9/29/2022
Date

IC/EC CERTIFICATIONS

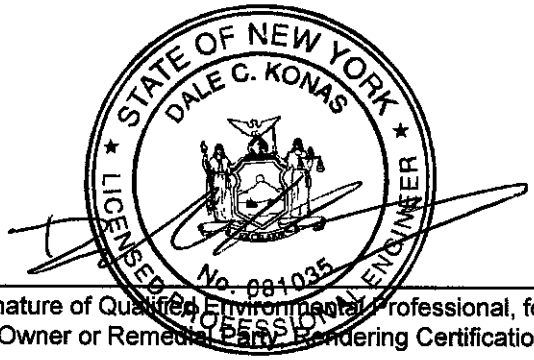
Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Dale C. Konas, P.E. at 5 Old Dock Rd Yaphank, NY 11980
print name print business address

am certifying as a Qualified Environmental Professional for the EnviroTrac P.E. P.C.
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

9/29/22
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.