ecology and environment
engineering and geology, p.c.

September 28, 2023

Mr. Justin Starr
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233

Re: Work Assignment D009807-29
NYSDEC Site No. 360059 – Rose Cleaners
500 Lexington Avenue, Mount Kisco, NY
PCE Recovery Plan at Monitoring Well MW-3

Dear Mr. Starr,

Ecology and Environment Engineering and Geology, P.C. (E & E) is conducting a remedial investigation (RI) at DEC State Superfund Program (SSF) Site No. 360059, Rose Cleaners, located at 500 Lexington Avenue, Mount Kisco, New York (the Site). In addition to the RI activities, WSP has prepared the following interim remedial measures plan for the recovery of free-phase tetrachloroethene (PCE) encountered in off-site groundwater monitoring well MW-3. This plan describes the procedures and health and safety measures for the recovery of free-phase PCE from Monitoring Well MW-3. In addition, this plan will be utilized during subsequent phases of the RI if any dense non-aqueous phase liquid (DNAPL) is detected in existing or newly installed monitoring wells. A site plan showing the SSF Site and monitoring well locations is attached.

Background

As part of the remedial investigation activities, E & E located, inspected, and gauged the existing on- and off-site monitoring wells installed by others. DNAPL was encountered in one well, MW-3, and was measured at a thickness of approximately 1 foot at the bottom of the well. On May 25, 2023, E & E collected a sample of the DNAPL using a peristaltic pump and submitted it to Phoenix Environmental Laboratory, Inc. for laboratory analysis. The results indicated that the DNAPL was PCE, which is the primary contaminant associated with the Rose Cleaners dry cleaner facility. The laboratory analytical report is attached.

PCE Recovery Procedures

Free-phase PCE will be evacuated from Monitoring Well MW-3 using a peristaltic pump and dedicated tubing. The down-well tubing will consist of high-density polyethylene (HDPE) and the pump head tubing will consist of Masterflex® Versilon™ 2001 Tubing or equivalent. The down-well tubing intake will be secured to the sensor of an oil-water interface meter (using zip ties or metal wire) and lowered into the zone of PCE. The peristaltic pump will be operated at a low rate (approximately 100 ml/min [milliliters per minute]) and the tubing inspected frequently for any leaks. The interface meter will be used as a guide to determine when the free-phase PCE has been removed and only water is detected in the well. Pumping will continue until residual PCE appears to be cleared from the tubing and water is observed at the pump effluent at the surface.

After the recovery efforts are complete, the bottom of the well will be gauged every 10 minutes for up to 2 hours to determine if free-phase PCE returns. If more than one-tenth of a foot of PCE enters the well in less than 2 hours, the recovery procedures above will be implemented again. E & E will return to the Site as needed over the next several days to determine the rate at which free-phase PCE may collect in the well.

Recovered PCE Storage and Waste Management

The PCE will be pumped directly into a metallic paint can or equivalent chemical resistant container, which will be situated in a 5-gallon HDPE bucket and secured in-place with sorbent pads. At the completion of PCE recovery, the container will be sealed, labelled as hazardous waste, and placed into a department of transportation (DOT)-rated steel drum for secondary containment. The sorbent pads surrounding the container, tubing, and gloves will also be placed in the drum. The 5-gallon bucket will be decontaminated (see next section). The drum will be sealed, labelled as hazardous waste and staged at the SSF Site for later disposal.

Decontamination Procedures

This PCE recovery plan is designed for use of dedicated, disposable materials; and minimize the need for decontamination procedures. The oil-water interface meter and other equipment or re-usable items will be decontaminated using a scrub brush and a solution of water and alconox. The decontamination wastewater will be transferred to a 55-gallon steel drum staged at the SSF site (separate of the drum containing the free-phase PCE).

Health and Safety and Work Zone Preparation

A minimum of Modified Level D Personal Protective Equipment (PPE) will be required for field personnel that includes splash protection safety goggles or face shield and long-cuff nitrile gloves. A ventilation fan will be operated in conjunction with pumping the free-phase PCE to remove vapors from the work zone. Field personnel will be prepared to upgrade to PPE Level C (respirators with appropriate cartridges) in the event this engineering solution fails to provide adequate protection. The site-specific Health and Safety Plan (HASP) has been updated to include protocols associated with handling free-phase PCE. A copy will be on-site during all field activities.

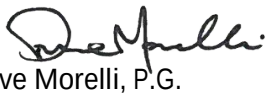
The work zone will be covered with at least two layers of sorbent pads around the well, pump, and storage containers. A sheet of polyethylene liner will be staged adjacent to the work zone for spent tubing or any other item that may come in contact with the PCE. A spill kit will be on-hand for immediate spill containment if necessary.

The work zone and downwind areas will be monitored with a photoionization detector (PID) as specified in the Community Air Monitoring Plan (CAMP) / Community Health and Safety Plan (CHSP). If total organic vapor levels exceed 5 ppm (parts per million) over background, work activities will be halted and procedures will be re-evaluated. When operating the ventilation fan, the effluent will be situated away from any potential downwind receptors.

ecology and environment
engineering and geology, p.c.

If you have any questions, please contact me at dave.morelli@wsp.com.

Sincerely,



Dave Morelli, P.G.
Project Manager

cc: R. Watt, E & E

Ecology and Environment Engineering and Geology, P.C.
40 La Riviere Dr., Suite 320
Buffalo, NY 14202

UV-MW-6
MW-9
MW-10
MW-7
MW-8
MW-6
MW-3
MW-4
MW-E
MW-C
MW-D
MW-2
MW-1
MW-I
BW-1
X-13
X-5
X-4
MW-L
X-2
X-1
X-3
ROSE CLEANERS
PZ-2
X-18
X-16
X-15
X-11
X-17
X-14
MW-K
IW-3
IW-4
IW-1

SOURCES:
1. SOURCE: SITE AND WELL LOCATIONS SURVEYED BY POPLI DESIGN GROUP SURVEY MAY 2023.
2. WELLS LABELLED X-# INDICATE FORMER WELL ID COULD NOT BE CONFIRMED.
3. WELLS MW-C, BW-1, AND X-14 NOT SURVEYED (MAY 2023).

LEGEND

PROPERTY BOUNDARY

MONITOR WELL LOCATION (INSTALLED BY OTHERS 2005 TO 2016)

N

0 60

SCALE IN FEET

WSP USA Inc.
40 La Riviere Drive
Suite 320
Buffalo, New York 14202
(716) 853-1220

Drawn By:	RAC
Checked:	DM
Approved:	RW
DWG Date:	08/14/23

Rose Cleaners
NYSDEC Site No. 360059
500 Lexington Avenue
Mount Kisco, New York

SITE PLAN

FIGURE 1

B

Monday, June 26, 2023

Attn: Dave Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Project ID: **ROSE CLEANERS**
SDG ID: **GCO15356**
Sample ID#s: **CO15356**

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: WSP USA

Project: ROSE CLEANERS

Laboratory Project: GCO15356

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

June 26, 2023

SDG I.D.: GCO15356

WSP USA ROSE CLEANERS

Methodology Summary

Volatile Organic Compounds:

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed.Update III, Method 8260C and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

June 26, 2023

SDG I.D.: GCO15356

WSP USA ROSE CLEANERS

Laboratory Chronicle

The samples in this delivery group were received at 2.1°C.

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CO15356	Volatiles	05/25/23	05/30/23	05/30/23	JLI	Y

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

June 26, 2023

SDG I.D.: GCO15356

The 8260 Chromatogram is provided with this report; review indicates that this sample is essentially pure Tetrachloroethene.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

June 26, 2023

SDG I.D.: GCO15356

Project ID: ROSE CLEANERS

Client Id	Lab Id	Matrix
MW-3 (NAPL)-20230525	CO15356	LIQUID

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 26, 2023

FOR: Attn: Dave Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Sample Information		Custody Information		Date	Time
Matrix:	LIQUID	Collected by:		05/25/23	15:00
Location Code:	WSP-NYSDEC	Received by:	CP	05/26/23	16:39
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	145855				

Laboratory Data

SDG ID: GCO15356
Phoenix ID: CO15356

Project ID: ROSE CLEANERS
Client ID: MW-3 (NAPL)-20230525

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,1,1-Trichloroethane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,1,2-Trichloroethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,1-Dichloroethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,1-Dichloroethene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,1-Dichloropropene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2,3-Trichloropropane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2-Dibromoethane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2-Dichlorobenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2-Dichloroethane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,2-Dichloropropane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,3-Dichlorobenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,3-Dichloropropane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
1,4-Dichlorobenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
2,2-Dichloropropane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
2-Chlorotoluene	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C	
2-Hexanone	ND	L240000	49000	mg/Kg	1000	05/30/23	JLI	SW8260C	
2-Isopropyltoluene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	1
4-Chlorotoluene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C	
4-Methyl-2-pentanone	ND	L240000	49000	mg/Kg	1000	05/30/23	JLI	SW8260C	

Project ID: ROSE CLEANERS
Client ID: MW-3 (NAPL)-20230525

Phoenix I.D.: CO15356

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	L240000	49000	mg/Kg	1000	05/30/23	JLI	SW8260C
Acrylonitrile	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Benzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Bromobenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Bromochloromethane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Bromodichloromethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Bromoform	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Bromomethane	ND	L 49000	19000	mg/Kg	1000	05/30/23	JLI	SW8260C
Carbon Disulfide	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Carbon tetrachloride	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Chlorobenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Chloroethane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Chloroform	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Chloromethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Dibromochloromethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Dibromomethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Dichlorodifluoromethane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Ethylbenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Hexachlorobutadiene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Isopropylbenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
m&p-Xylene	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	L240000	49000	mg/Kg	1000	05/30/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Methylene chloride	ND	L 49000	49000	mg/Kg	1000	05/30/23	JLI	SW8260C
Naphthalene	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
n-Butylbenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
n-Propylbenzene	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
o-Xylene	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
p-Isopropyltoluene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
sec-Butylbenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Styrene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
tert-Butylbenzene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Tetrachloroethene	910000	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	L 49000	24000	mg/Kg	1000	05/30/23	JLI	SW8260C
Toluene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Total Xylenes	ND	49000	49000	mg/Kg	1000	05/30/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	L 49000	24000	mg/Kg	1000	05/30/23	JLI	SW8260C
Trichloroethene	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Trichlorofluoromethane	ND	L 49000	9700	mg/Kg	1000	05/30/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
Vinyl chloride	ND	L 49000	4900	mg/Kg	1000	05/30/23	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (1000x)	100			%	1000	05/30/23	JLI	70 - 130 %
% Bromofluorobenzene (1000x)	95			%	1000	05/30/23	JLI	70 - 130 %
% Dibromofluoromethane (1000x)	96			%	1000	05/30/23	JLI	70 - 130 %

Ver 2

Project ID: ROSE CLEANERS
Client ID: MW-3 (NAPL)-20230525

Phoenix I.D.: CO15356

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (1000x)	102			%	1000	05/30/23	JLI	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 26, 2023

Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

NY # 11301

QA/QC Report

June 26, 2023

QA/QC Data

SDG I.D.: GCO15356

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 680113H (ug/kg), QC Sample No: CO15334 50X (CO15356 (1000X))											
Volatiles (High Level)											
1,1,1,2-Tetrachloroethane	ND	250	102	104	1.9	87	102	15.9	70 - 130	30	
1,1,1-Trichloroethane	ND	250	103	106	2.9	92	107	15.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	99	105	5.9	90	102	12.5	70 - 130	30	
1,1,2-Trichloroethane	ND	250	94	98	4.2	84	96	13.3	70 - 130	30	
1,1-Dichloroethane	ND	250	99	102	3.0	89	102	13.6	70 - 130	30	
1,1-Dichloroethene	ND	250	102	104	1.9	92	106	14.1	70 - 130	30	
1,1-Dichloropropene	ND	250	110	113	2.7	100	115	14.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	117	120	2.5	90	108	18.2	70 - 130	30	
1,2,3-Trichloropropane	ND	250	100	104	3.9	90	103	13.5	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	124	126	1.6	98	114	15.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	107	109	1.9	95	109	13.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	107	110	2.8	87	101	14.9	70 - 130	30	
1,2-Dibromoethane	ND	250	103	107	3.8	92	103	11.3	70 - 130	30	
1,2-Dichlorobenzene	ND	250	102	105	2.9	90	101	11.5	70 - 130	30	
1,2-Dichloroethane	ND	250	95	100	5.1	87	98	11.9	70 - 130	30	
1,2-Dichloropropane	ND	250	98	101	3.0	87	100	13.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	110	112	1.8	98	113	14.2	70 - 130	30	
1,3-Dichlorobenzene	ND	250	105	108	2.8	91	105	14.3	70 - 130	30	
1,3-Dichloropropane	ND	250	101	106	4.8	91	103	12.4	70 - 130	30	
1,4-Dichlorobenzene	ND	250	106	108	1.9	92	105	13.2	70 - 130	30	
2,2-Dichloropropane	ND	250	102	105	2.9	91	107	16.2	70 - 130	30	
2-Chlorotoluene	ND	250	107	109	1.9	97	111	13.5	70 - 130	30	
2-Hexanone	ND	1300	104	112	7.4	95	108	12.8	70 - 130	30	
2-Isopropyltoluene	ND	250	106	108	1.9	94	108	13.9	70 - 130	30	
4-Chlorotoluene	ND	250	108	109	0.9	95	108	12.8	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	95	102	7.1	86	100	15.1	70 - 130	30	
Acetone	ND	500	77	67	13.9	59	67	12.7	70 - 130	30	l,m
Acrylonitrile	ND	250	90	96	6.5	81	92	12.7	70 - 130	30	
Benzene	ND	250	102	105	2.9	92	106	14.1	70 - 130	30	
Bromobenzene	ND	250	104	107	2.8	94	106	12.0	70 - 130	30	
Bromochloromethane	ND	250	97	102	5.0	88	100	12.8	70 - 130	30	
Bromodichloromethane	ND	250	100	103	3.0	84	99	16.4	70 - 130	30	
Bromoform	ND	250	102	103	1.0	76	90	16.9	70 - 130	30	
Bromomethane	ND	250	68	73	7.1	63	77	20.0	70 - 130	30	l,m
Carbon Disulfide	ND	250	96	99	3.1	86	98	13.0	70 - 130	30	
Carbon tetrachloride	ND	250	95	98	3.1	83	101	19.6	70 - 130	30	
Chlorobenzene	ND	250	103	106	2.9	92	106	14.1	70 - 130	30	
Chloroethane	ND	250	19	19	0.0	18	20	10.5	70 - 130	30	l,m
Chloroform	ND	250	99	103	4.0	90	102	12.5	70 - 130	30	
Chloromethane	ND	250	94	97	3.1	80	91	12.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	102	105	2.9	92	106	14.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCO15356

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	250	102	106	3.8	89	103	14.6	70 - 130	30	
Dibromochloromethane	ND	150	104	108	3.8	84	99	16.4	70 - 130	30	
Dibromomethane	ND	250	100	103	3.0	88	100	12.8	70 - 130	30	
Dichlorodifluoromethane	ND	250	96	100	4.1	87	100	13.9	70 - 130	30	
Ethylbenzene	ND	250	106	108	1.9	96	110	13.6	70 - 130	30	
Hexachlorobutadiene	ND	250	117	119	1.7	101	117	14.7	70 - 130	30	
Isopropylbenzene	ND	250	109	111	1.8	99	115	15.0	70 - 130	30	
m&p-Xylene	ND	250	107	109	1.9	95	110	14.6	70 - 130	30	
Methyl ethyl ketone	ND	250	92	98	6.3	82	94	13.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	95	100	5.1	83	95	13.5	70 - 130	30	
Methylene chloride	ND	250	87	90	3.4	79	90	13.0	70 - 130	30	
Naphthalene	ND	250	126	131	3.9	100	122	19.8	70 - 130	30	l
n-Butylbenzene	ND	250	119	120	0.8	104	118	12.6	70 - 130	30	
n-Propylbenzene	ND	250	109	112	2.7	98	114	15.1	70 - 130	30	
o-Xylene	ND	250	105	108	2.8	94	107	12.9	70 - 130	30	
p-Isopropyltoluene	ND	250	115	117	1.7	102	116	12.8	70 - 130	30	
sec-Butylbenzene	ND	250	111	113	1.8	100	115	14.0	70 - 130	30	
Styrene	ND	250	105	107	1.9	92	106	14.1	70 - 130	30	
tert-Butylbenzene	ND	250	110	112	1.8	99	114	14.1	70 - 130	30	
Tetrachloroethene	ND	250	107	109	1.9	106	113	6.4	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	89	96	7.6	82	92	11.5	70 - 130	30	
Toluene	ND	250	96	99	3.1	87	100	13.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	93	87	6.7	77	88	13.3	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	102	106	3.8	87	101	14.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	102	108	5.7	87	101	14.9	70 - 130	30	
Trichloroethene	ND	250	105	107	1.9	94	108	13.9	70 - 130	30	
Trichlorofluoromethane	ND	250	16	16	0.0	15	17	12.5	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	98	100	2.0	89	101	12.6	70 - 130	30	
Vinyl chloride	ND	250	89	92	3.3	77	90	15.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	101	2.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	100	100	0.0	99	99	0.0	70 - 130	30	
% Dibromofluoromethane	95	%	98	99	1.0	97	99	2.0	70 - 130	30	
% Toluene-d8	101	%	97	98	1.0	98	98	0.0	70 - 130	30	

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 26, 2023

Monday, June 26, 2023

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCO15356 - WSP-NYSDEC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

June 26, 2023

SDG I.D.: GCO15356

The samples in this delivery group were received at 2.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp 2.1 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: WSP USA
Address: 500 Summit Lake Dr, Ste 450
Valhalla, NY 10595
Dave Morelli (WSP) – dave.morelli@wsp.com
Justin Starr (DEC) – justin.starr@dec.ny.gov

Project: Rose Cleaners
Report to: 1
Invoice to:
QUOTE # :

Project P.O: NYSDEC Callout 145855

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 5/25/23

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

dry cleaner solvent

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	VOC 8260 full list	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container ( )oz	GL Soil container ( )oz	40 ml VOA Vial [✓] As is [ ] other	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL NAOH 250ml	PL HNO_3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is	
15376 JG	MW-3(NAPL)-20230525		5/25/23	1500		✓					2								15356

Relinquished by:	Accepted by:	Date:	Time:
[signature] WSP	[signature]	Fri-26-23	9:30
	[signature]	5/26/23	16:39

Comments, Special Requirements or Regulations:
(2) unpreserved VOAs
pure dry cleaner solvent product sample
*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.
Separate lab report

Data Format:
☐ Phoenix Std Report ☑ EQuIS
☑ Excel ☐ NJ Hazsite EDD
☑ PDF ☑ NY EZ EDD (ASP) CAT B
☐ GIS/Key ☐ Other Level 4 CLP

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
☑ Standard
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

Data Package:
☐ NJ Reduced Deliv. *
☐ Other
☑ NY Enhanced (ASP B) *

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

PEL-111 Rev 1/2023

File :H:\V2023\CHEM03\05MAY\053023\0530_28.D
Operator :
Acquired : 30 May 2023 4:46 pm using AcqMethod VOA_719.M
Instrument : chem3
Sample Name: C015356 #1 9708737.86X 1.03g PPH v1
Misc Info : $82600SMR ASP 06/01 5ul of 10 000x of 1000x
Vial Number: 1