Appendix J

Laboratory Reports

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-177381-1
Client Project/Site: Admiral Cleaners #401075

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Josh Haugh

Authorized for release by:
11/11/2020 11:52:57 AM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Wyatt Watson
Project Management Assistant I
11/11/2020 11:52:57 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-177381-1
Project/Site: Admiral Cleaners #401075

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-177381-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-177381-1

Comments
No additional comments.

Receipt
The samples were received on 10/31/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

Receipt Exceptions
The sampler did not mark a turnaround time (TAT) on the chain of custody form but emailed 11/2/20 to request 5 day rush TAT.

UST LIQUID (480-177381-1), UST SOIL (480-177381-2), UST-SOIL-2FTBGS-WEST (480-177381-3), UST-SOIL-2FTBGS-NORTH (480-177381-4) and UST LIQUID (480-177381-5)

GC/MS VOA
Method 8260C: The following sample was analyzed using medium level soil analysis due to the nature of the sample matrix: UST LIQUID (480-177381-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: UST SOIL (480-177381-2), UST-SOIL-2FTBGS-WEST (480-177381-3), UST-SOIL-2FTBGS-NORTH (480-177381-4) and (LB 480-557594/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-558099 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 310.13: The following sample was diluted to bring the concentration of target analytes within the calibration range: UST LIQUID (480-177381-5).

Method 8015D: The following sample was diluted due to the abundance of target analytes: UST LIQUID (480-177381-5). As such, surrogate recoveries are below the calibration range, estimated, and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The continuing calibration verification (CCV) associated with batch 480-558055 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: UST SOIL (480-177381-2).

Method 8151A: Surrogate recovery for the following sample was outside control limits: (LB 480-557538/1-F). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these

Job ID: 480-177381-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. UST SOIL (480-177381-2), (LB 480-557538/1-B), (LCS 480-557810/3-A) and (MB 480-557810/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: UST SOIL (480-177381-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: UST LIQUID (480-177381-5). The reporting limits (RLs) have been adjusted proportionately.

Method 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-557538 and 480-558072.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-1

Client Sample ID: UST LIQUID

Date Collected: 10/30/20 13:15
Date Received: 10/31/20 08:00

Lab Sample ID: 480-177381-1

Matrix: Waste

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		97	27	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,1,2,2-Tetrachloroethane	ND		97	16	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,1,2-Trichloroethane	ND		97	20	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		97	48	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,1-Dichloroethane	ND		97	30	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,1-Dichloroethene	ND		97	33	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,2,4-Trichlorobenzene	ND		97	37	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,2-Dibromo-3-Chloropropane	ND		97	48	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,2-Dichlorobenzene	ND		97	25	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,2-Dichloroethane	ND		97	40	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,2-Dichloropropane	ND		97	16	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,3-Dichlorobenzene	ND		97	26	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,4-Dichlorobenzene	ND		97	14	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
2-Butanone (MEK)	ND		480	290	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
2-Hexanone	ND		480	200	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
4-Methyl-2-pentanone (MIBK)	ND		480	31	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Acetone	ND		480	400	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Benzene	ND		97	18	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Bromodichloromethane	ND		97	19	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Bromoform	ND		97	48	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Bromomethane	ND		97	21	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Carbon disulfide	ND		97	44	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Carbon tetrachloride	ND		97	25	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Chlorobenzene	ND		97	13	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Dibromochloromethane	ND		97	47	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Chloroethane	ND		97	20	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Chloroform	ND		97	66	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Chloromethane	ND		97	23	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
cis-1,2-Dichloroethene	**370**		97	27	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
cis-1,3-Dichloropropene	ND		97	23	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Cyclohexane	ND		97	21	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Dichlorodifluoromethane	ND		97	42	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Ethylbenzene	ND		97	28	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
1,2-Dibromoethane	ND		97	17	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Isopropylbenzene	ND		97	15	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Methyl acetate	ND		480	46	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Methyl tert-butyl ether	ND		97	37	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Methylcyclohexane	ND		97	45	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Methylene Chloride	ND		97	19	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Styrene	ND		97	23	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Tetrachloroethene	**80**	**J**	97	13	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Toluene	ND		97	26	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
trans-1,2-Dichloroethene	ND		97	23	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
trans-1,3-Dichloropropene	ND		97	9.5	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Trichloroethene	ND		97	27	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Trichlorofluoromethane	ND		97	45	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Vinyl chloride	ND		97	32	ug/Kg		11/02/20 11:13	11/05/20 03:37	1
Xylenes, Total	ND		190	54	ug/Kg		11/02/20 11:13	11/05/20 03:37	1

Client Sample ID: UST LIQUID

Date Collected: 10/30/20 13:15
Date Received: 10/31/20 08:00

Lab Sample ID: 480-177381-1
Matrix: Waste

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*50 - 149*	*11/02/20 11:13*	*11/05/20 03:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*53 - 146*	*11/02/20 11:13*	*11/05/20 03:37*	*1*
4-Bromofluorobenzene (Surr)	*107*		*49 - 148*	*11/02/20 11:13*	*11/05/20 03:37*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*11/02/20 11:13*	*11/05/20 03:37*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		28	7.5	mg/Kg		11/04/20 08:01	11/04/20 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*82*		*46 - 156*	*11/04/20 08:01*	*11/04/20 10:57*	*1*

Client Sample ID: UST SOIL

Date Collected: 10/30/20 13:45
Date Received: 10/31/20 08:00

Lab Sample ID: 480-177381-2
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			11/07/20 03:12	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			11/07/20 03:12	10
Benzene	ND		0.010	0.0041	mg/L			11/07/20 03:12	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			11/07/20 03:12	10
Chlorobenzene	ND		0.010	0.0075	mg/L			11/07/20 03:12	10
Chloroform	ND		0.010	0.0034	mg/L			11/07/20 03:12	10
Tetrachloroethene	**0.023**		0.010	0.0036	mg/L			11/07/20 03:12	10
Trichloroethene	ND		0.010	0.0046	mg/L			11/07/20 03:12	10
Vinyl chloride	ND		0.010	0.0090	mg/L			11/07/20 03:12	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			11/07/20 03:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/07/20 03:12*	*10*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*11/07/20 03:12*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/07/20 03:12*	*10*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/07/20 03:12*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		11/06/20 14:59	11/09/20 18:02	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		11/06/20 14:59	11/09/20 18:02	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		11/06/20 14:59	11/09/20 18:02	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		11/06/20 14:59	11/09/20 18:02	1
2-Methylphenol	ND		0.020	0.0016	mg/L		11/06/20 14:59	11/09/20 18:02	1
3-Methylphenol	ND		0.040	0.0016	mg/L		11/06/20 14:59	11/09/20 18:02	1
4-Methylphenol	ND		0.040	0.0014	mg/L		11/06/20 14:59	11/09/20 18:02	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		11/06/20 14:59	11/09/20 18:02	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		11/06/20 14:59	11/09/20 18:02	1
Hexachloroethane	ND		0.020	0.0023	mg/L		11/06/20 14:59	11/09/20 18:02	1
Nitrobenzene	ND		0.020	0.0011	mg/L		11/06/20 14:59	11/09/20 18:02	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		11/06/20 14:59	11/09/20 18:02	1
Pyridine	ND		0.10	0.0016	mg/L		11/06/20 14:59	11/09/20 18:02	1

Client Sample ID: UST SOIL

Date Collected: 10/30/20 13:45
Date Received: 10/31/20 08:00

Lab Sample ID: 480-177381-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*41 - 120*	*11/06/20 14:59*	*11/09/20 18:02*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*11/06/20 14:59*	*11/09/20 18:02*	*1*
2-Fluorophenol (Surr)	*45*		*35 - 120*	*11/06/20 14:59*	*11/09/20 18:02*	*1*
Nitrobenzene-d5 (Surr)	*78*		*46 - 120*	*11/06/20 14:59*	*11/09/20 18:02*	*1*
p-Terphenyl-d14 (Surr)	*92*		*60 - 148*	*11/06/20 14:59*	*11/09/20 18:02*	*1*
Phenol-d5 (Surr)	*30*		*22 - 120*	*11/06/20 14:59*	*11/09/20 18:02*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		11/06/20 15:02	11/09/20 11:10	1
Endrin	ND		0.00020	0.000014	mg/L		11/06/20 15:02	11/09/20 11:10	1
gamma-BHC (Lindane)	**0.000053**	**J**	0.00020	0.0000060	mg/L		11/06/20 15:02	11/09/20 11:10	1
Heptachlor	ND		0.00020	0.0000085	mg/L		11/06/20 15:02	11/09/20 11:10	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		11/06/20 15:02	11/09/20 11:10	1
Methoxychlor	ND		0.00020	0.000014	mg/L		11/06/20 15:02	11/09/20 11:10	1
Toxaphene	ND		0.0020	0.00012	mg/L		11/06/20 15:02	11/09/20 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*20 - 120*	*11/06/20 15:02*	*11/09/20 11:10*	*1*
Tetrachloro-m-xylene	*61*		*44 - 120*	*11/06/20 15:02*	*11/09/20 11:10*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		11/09/20 08:35	11/10/20 17:26	1
2,4-D	ND		0.0020	0.00040	mg/L		11/09/20 08:35	11/10/20 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*50*		*48 - 132*	*11/09/20 08:35*	*11/10/20 17:26*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0067**	**J**	0.015	0.0056	mg/L		11/06/20 10:41	11/06/20 23:31	1
Barium	**1.1**	**^**	1.0	0.10	mg/L		11/06/20 10:41	11/06/20 23:31	1
Cadmium	**0.0010**	**J**	0.0020	0.00050	mg/L		11/06/20 10:41	11/06/20 23:31	1
Chromium	ND		0.020	0.010	mg/L		11/06/20 10:41	11/06/20 23:31	1
Lead	**0.0099**	**J**	0.020	0.0030	mg/L		11/06/20 10:41	11/06/20 23:31	1
Selenium	ND		0.025	0.0087	mg/L		11/06/20 10:41	11/06/20 23:31	1
Silver	ND		0.0060	0.0017	mg/L		11/06/20 10:41	11/06/20 23:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/06/20 14:05	11/06/20 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0	50.0	Degrees F			11/06/20 18:20	1
Cyanide, Reactive	ND		10	10	mg/Kg		11/02/20 09:03	11/03/20 13:17	1
Sulfide, Reactive	ND		10	10	mg/Kg		11/02/20 09:03	11/02/20 15:55	1
pH	**7.6**	**HF**	0.1	0.1	SU			11/03/20 13:00	1
Temperature	**19.9**	**HF**	0.001	0.001	Degrees C			11/03/20 13:00	1

Client Sample ID: UST SOIL

Lab Sample ID: 480-177381-2
Date Collected: 10/30/20 13:45
Matrix: Solid
Date Received: 10/31/20 08:00
Percent Solids: 74.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	11/02/20 15:40	11/04/20 17:11	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	11/02/20 15:40	11/04/20 17:11	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	11/02/20 15:40	11/04/20 17:11	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	11/02/20 15:40	11/04/20 17:11	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	11/02/20 15:40	11/04/20 17:11	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	11/02/20 15:40	11/04/20 17:11	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	11/02/20 15:40	11/04/20 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*60 - 154*	*11/02/20 15:40*	*11/04/20 17:11*	*1*
DCB Decachlorobiphenyl	*95*		*65 - 174*	*11/02/20 15:40*	*11/04/20 17:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2	0.60	mg/Kg	☼	11/03/20 12:47	11/03/20 17:24	1

Client Sample ID: UST-SOIL-2FTBGS-WEST

Lab Sample ID: 480-177381-3
Date Collected: 10/30/20 13:45
Matrix: Solid
Date Received: 10/31/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			11/07/20 04:27	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			11/07/20 04:27	10
Benzene	ND		0.010	0.0041	mg/L			11/07/20 04:27	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			11/07/20 04:27	10
Chlorobenzene	ND		0.010	0.0075	mg/L			11/07/20 04:27	10
Chloroform	ND		0.010	0.0034	mg/L			11/07/20 04:27	10
Tetrachloroethene	**0.040**		0.010	0.0036	mg/L			11/07/20 04:27	10
Trichloroethene	ND		0.010	0.0046	mg/L			11/07/20 04:27	10
Vinyl chloride	ND		0.010	0.0090	mg/L			11/07/20 04:27	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			11/07/20 04:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*11/07/20 04:27*	*10*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*11/07/20 04:27*	*10*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/07/20 04:27*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*11/07/20 04:27*	*10*

Client Sample ID: UST-SOIL-2FTBGS-NORTH

Lab Sample ID: 480-177381-4
Date Collected: 10/30/20 13:50
Matrix: Solid
Date Received: 10/31/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			11/07/20 04:52	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			11/07/20 04:52	10
Benzene	ND		0.010	0.0041	mg/L			11/07/20 04:52	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			11/07/20 04:52	10
Chlorobenzene	ND		0.010	0.0075	mg/L			11/07/20 04:52	10
Chloroform	ND		0.010	0.0034	mg/L			11/07/20 04:52	10

Client Sample ID: UST-SOIL-2FTBGS-NORTH

Lab Sample ID: 480-177381-4
Matrix: Solid
Date Collected: 10/30/20 13:50
Date Received: 10/31/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**0.10**		0.010	0.0036	mg/L			11/07/20 04:52	10
Trichloroethene	ND		0.010	0.0046	mg/L			11/07/20 04:52	10
Vinyl chloride	ND		0.010	0.0090	mg/L			11/07/20 04:52	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			11/07/20 04:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*11/07/20 04:52*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*11/07/20 04:52*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/07/20 04:52*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*11/07/20 04:52*	*10*

Client Sample ID: UST LIQUID

Lab Sample ID: 480-177381-5
Matrix: Water
Date Collected: 10/30/20 13:15
Date Received: 10/31/20 08:00

Method: 310.13 - Identification of Routine Petroleum Products

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	50	mg/L		11/05/20 15:28	11/06/20 12:42	50
Kerosene	ND		130	130	mg/L		11/05/20 15:28	11/06/20 12:42	50
Motor Oil	ND		250	250	mg/L		11/05/20 15:28	11/06/20 12:42	50
Fuel Oil #2	**1500**		130	130	mg/L		11/05/20 15:28	11/06/20 12:42	50
Fuel Oil #4	ND		130	130	mg/L		11/05/20 15:28	11/06/20 12:42	50
Fuel Oil #6	ND		130	130	mg/L		11/05/20 15:28	11/06/20 12:42	50
Unknown Hydrocarbons	ND		50	50	mg/L		11/05/20 15:28	11/06/20 12:42	50

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1500**		130	78	mg/L		11/05/20 15:28	11/06/20 12:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*264*	*X*	*51 - 120*	*11/05/20 15:28*	*11/06/20 12:42*	*50*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		11/06/20 10:38	11/07/20 00:47	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0	50.0	Degrees F			11/06/20 18:20	1

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-1

Client Sample ID: UST LIQUID

Lab Sample ID: 480-177381-1
Date Collected: 10/30/20 13:15
Matrix: Waste
Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			556928	11/02/20 11:13	AMM	TAL BUF
Total/NA	Analysis	8260C		1	557361	11/05/20 03:37	AMM	TAL BUF
Total/NA	Prep	5035A_H			557286	11/04/20 08:01	JLS	TAL BUF
Total/NA	Analysis	8015D		1	557314	11/04/20 10:57	JLS	TAL BUF

Client Sample ID: UST SOIL

Lab Sample ID: 480-177381-2
Date Collected: 10/30/20 13:45
Matrix: Solid
Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			557594	11/05/20 11:35	LMS	TAL BUF
TCLP	Analysis	8260C		10	557865	11/07/20 03:12	OMI	TAL BUF
TCLP	Leach	1311			557538	11/05/20 08:51	LMS	TAL BUF
TCLP	Prep	3510C			557875	11/06/20 14:59	ATG	TAL BUF
TCLP	Analysis	8270D		1	558099	11/09/20 18:02	JMM	TAL BUF
TCLP	Leach	1311			557538	11/05/20 08:51	LMS	TAL BUF
TCLP	Prep	3510C			557876	11/06/20 15:02	ATG	TAL BUF
TCLP	Analysis	8081B		1	558055	11/09/20 11:10	JLS	TAL BUF
TCLP	Leach	1311			557538	11/05/20 08:51	LMS	TAL BUF
TCLP	Prep	8151A			558072	11/09/20 08:35	JMP	TAL BUF
TCLP	Analysis	8151A		1	558303	11/10/20 17:26	MAN	TAL BUF
TCLP	Leach	1311			557538	11/05/20 08:51	LMS	TAL BUF
TCLP	Prep	3010A			557810	11/06/20 10:41	ADM	TAL BUF
TCLP	Analysis	6010C		1	558130	11/06/20 23:31	LMH	TAL BUF
TCLP	Leach	1311			557538	11/05/20 08:51	LMS	TAL BUF
TCLP	Prep	7470A			557831	11/06/20 14:05	BMB	TAL BUF
TCLP	Analysis	7470A		1	557920	11/06/20 18:51	BMB	TAL BUF
Total/NA	Analysis	1010A		1	557930	11/06/20 18:20	T1S	TAL BUF
Total/NA	Prep	7.3.3			557002	11/02/20 09:03	MJB	TAL BUF
Total/NA	Analysis	9012		1	557269	11/03/20 13:17	CRK	TAL BUF
Total/NA	Prep	7.3.4			557001	11/02/20 09:03	MJB	TAL BUF
Total/NA	Analysis	9034		1	557004	11/02/20 15:55	MJB	TAL BUF
Total/NA	Analysis	9045D		1	557458	11/03/20 13:00	CSS	TAL BUF
Total/NA	Analysis	Moisture		1	556988	11/02/20 15:43	GSR	TAL BUF

Client Sample ID: UST SOIL

Lab Sample ID: 480-177381-2
Date Collected: 10/30/20 13:45
Matrix: Solid
Date Received: 10/31/20 08:00
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			556985	11/02/20 15:40	SGD	TAL BUF
Total/NA	Analysis	8082A		1	557380	11/04/20 17:11	DSC	TAL BUF
Total/NA	Prep	9012B			557154	11/03/20 12:47	CRK	TAL BUF
Total/NA	Analysis	9012B		1	557236	11/03/20 17:24	CRK	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-177381-1
Project/Site: Admiral Cleaners #401075

Client Sample ID: UST-SOIL-2FTBGS-WEST
Lab Sample ID: 480-177381-3
Date Collected: 10/30/20 13:45
Matrix: Solid
Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			557594	11/05/20 11:36	LMS	TAL BUF
TCLP	Analysis	8260C		10	557865	11/07/20 04:27	OMI	TAL BUF

Client Sample ID: UST-SOIL-2FTBGS-NORTH
Lab Sample ID: 480-177381-4
Date Collected: 10/30/20 13:50
Matrix: Solid
Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			557594	11/05/20 11:36	LMS	TAL BUF
TCLP	Analysis	8260C		10	557865	11/07/20 04:52	OMI	TAL BUF

Client Sample ID: UST LIQUID
Lab Sample ID: 480-177381-5
Date Collected: 10/30/20 13:15
Matrix: Water
Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			557657	11/05/20 15:28	ATG	TAL BUF
Total/NA	Analysis	310.13		50	557827	11/06/20 12:42	MAN	TAL BUF
Total/NA	Prep	3510C			557657	11/05/20 15:28	ATG	TAL BUF
Total/NA	Analysis	8015D		50	557828	11/06/20 12:42	MAN	TAL BUF
TCLP	Leach	1311			557764	11/06/20 09:02	LMS	TAL BUF
TCLP	Prep	3010A			557809	11/06/20 10:38	ADM	TAL BUF
TCLP	Analysis	6010C		1	558131	11/07/20 00:47	LMH	TAL BUF
Total/NA	Analysis	1010A		1	557930	11/06/20 18:20	T1S	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-177381-1
Project/Site: Admiral Cleaners #401075

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
310.13	3510C	Water	Fuel Oil #2
310.13	3510C	Water	Fuel Oil #4
310.13	3510C	Water	Fuel Oil #6
310.13	3510C	Water	Gasoline
310.13	3510C	Water	Kerosene
310.13	3510C	Water	Motor Oil
310.13	3510C	Water	Unknown Hydrocarbons
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
310.13	Identification of Routine Petroleum Products	NYASP	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
1311	TCLP Extraction	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
7.3.3	Cyanide, Reactive	SW846	TAL BUF
7.3.4	Sulfide, Reactive	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

NYASP = New York Analytical Services Protocol

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-177381-1	UST LIQUID	Waste	10/30/20 13:15	10/31/20 08:00	
480-177381-2	UST SOIL	Solid	10/30/20 13:45	10/31/20 08:00	
480-177381-3	UST-SOIL-2FTBGS-WEST	Solid	10/30/20 13:45	10/31/20 08:00	
480-177381-4	UST-SOIL-2FTBGS-NORTH	Solid	10/30/20 13:50	10/31/20 08:00	
480-177381-5	UST LIQUID	Water	10/30/20 13:15	10/31/20 08:00	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-177381-1

Login Number: 177381 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Albany #224

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-152546-33922.1
Client Contact: Brian Neumann	Phone:	E-Mail: Judy.Stone@Eurofinset.com		Page: Page 1 of 1
Company: Precision Environmental Services Inc.		Analysis Requested		Job #:

Address: 831 State Route 67 Ste 38	Due Date Requested:
City: Ballston Spa	TAT Requested (days):
State, Zip: NY, 12020	
Phone: 518-402-9814(Tel)	PO #: CallOut ID: 137526
Email: bneumann@pesnyinc.com	WO #:
Project Name: Admiral Cleaners #401075	Project #: 48021140
Site:	SSOW#:

480-177381 Chain of Custody

rate

I - Ice
J - DI Water
K - EDTA
L - EDA
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A - Flashpoint	6010C - TCLP Lead	NY_310.13 - Hydrocarbon Identification	8260C - TCL list VOAs	8015D_GRO - GRO	8015D_DRO - DRO	1020B - Ignitability	9012_ReactiveCN, 9034_Reactive	6010C, 7470A, 8081B, 8151A, 8270D	8250C - TCLP Volatiles	9012B, 9045D	8082A - TCL PCBs		Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N			
UST Liquid	10/30/20	1315	G	Waste			X	X	X	X	X	X								8	
UST Soil	10/30/20	1345	C	Solid									X	X	X	X	X	X		6	
UST-SOIL-2FTBGS-West	10/30/20	1345	G	Solid												X				1	
UST-SOIL-2FT BGS-North	10/30/20	1340	G	Solid												X				1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10/30/20 1555			10/30/20 1555	
2		10/30/20 1700			10/31/20 0800	
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.3

Ver: 01/16/2019

11/11/2020

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-177381-2
Client Project/Site: Admiral Cleaners #401075

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Josh Haugh

Authorized for release by:
12/22/2020 12:00:34 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Wyatt Watson
Project Management Assistant I
12/22/2020 12:00:34 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-177381-2
Project/Site: Admiral Cleaners #401075

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-177381-2

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-177381-2

Comments
No additional comments.

Receipt
The samples were received on 10/31/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

Receipt Exceptions
The sampler did not mark a turnaround time (TAT) on the chain of custody form but emailed 11/2/20 to request 5 day rush TAT.

UST LIQUID (480-177381-1), UST SOIL (480-177381-2), UST-SOIL-2FTBGS-WEST (480-177381-3), UST-SOIL-2FTBGS-NORTH (480-177381-4) and UST LIQUID (480-177381-5)

GC/MS VOA
Method 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: UST SOIL (480-177381-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed outside of analytical holding time due to the test being added outside of analytical holding time: UST SOIL (480-177381-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-2

Client Sample ID: UST SOIL
Date Collected: 10/30/20 13:45
Date Received: 10/31/20 08:00

Lab Sample ID: 480-177381-2
Matrix: Solid
Percent Solids: 74.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1200	330	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,1,2,2-Tetrachloroethane	ND	H	1200	190	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,1,2-Trichloroethane	ND	H	1200	250	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1200	590	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,1-Dichloroethane	ND	H	1200	370	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,1-Dichloroethene	ND	H	1200	410	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,2,4-Trichlorobenzene	ND	H	1200	450	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,2-Dibromo-3-Chloropropane	ND	H	1200	590	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,2-Dichlorobenzene	ND	H	1200	300	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,2-Dichloroethane	ND	H	1200	480	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,2-Dichloropropane	ND	H	1200	190	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,3-Dichlorobenzene	ND	H	1200	320	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,4-Dichlorobenzene	ND	H	1200	170	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
2-Butanone (MEK)	ND	H	5900	3500	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
2-Hexanone	ND	H	5900	2400	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
4-Methyl-2-pentanone (MIBK)	ND	H	5900	380	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Acetone	ND	H	5900	4900	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Benzene	ND	H	1200	220	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Bromodichloromethane	ND	H	1200	240	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Bromoform	ND	H	1200	590	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Bromomethane	ND	H	1200	260	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Carbon disulfide	ND	H	1200	540	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Carbon tetrachloride	ND	H	1200	300	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Chlorobenzene	ND	H	1200	160	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Dibromochloromethane	ND	H	1200	570	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Chloroethane	ND	H	1200	250	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Chloroform	ND	H	1200	810	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Chloromethane	ND	H	1200	280	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
cis-1,2-Dichloroethene	**960**	**J H**	1200	330	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
cis-1,3-Dichloropropene	ND	H	1200	280	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Cyclohexane	ND	H	1200	260	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Dichlorodifluoromethane	ND	H	1200	520	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Ethylbenzene	ND	H	1200	340	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
1,2-Dibromoethane	ND	H	1200	210	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Isopropylbenzene	ND	H	1200	180	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Methyl acetate	ND	H	5900	560	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Methyl tert-butyl ether	ND	H	1200	450	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Methylcyclohexane	ND	H	1200	550	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Methylene Chloride	ND	H	1200	230	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Styrene	ND	H	1200	280	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Tetrachloroethene	**590**	**J H**	1200	160	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Toluene	ND	H	1200	320	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
trans-1,2-Dichloroethene	ND	H	1200	280	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
trans-1,3-Dichloropropene	ND	H	1200	120	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Trichloroethene	ND	H	1200	330	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Trichlorofluoromethane	ND	H	1200	550	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Vinyl chloride	ND	H	1200	400	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8
Xylenes, Total	ND	H	2400	650	ug/Kg	☼	12/18/20 10:57	12/19/20 19:44	8

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-2

Client Sample ID: UST SOIL
Date Collected: 10/30/20 13:45
Date Received: 10/31/20 08:00

Lab Sample ID: 480-177381-2
Matrix: Solid
Percent Solids: 74.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		50 - 149	12/18/20 10:57	12/19/20 19:44	8
1,2-Dichloroethane-d4 (Surr)	99		53 - 146	12/18/20 10:57	12/19/20 19:44	8
4-Bromofluorobenzene (Surr)	101		49 - 148	12/18/20 10:57	12/19/20 19:44	8
Dibromofluoromethane (Surr)	97		60 - 140	12/18/20 10:57	12/19/20 19:44	8

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-2

Client Sample ID: UST SOIL

Date Collected: 10/30/20 13:45
Date Received: 10/31/20 08:00

Lab Sample ID: 480-177381-2

Matrix: Solid
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			563841	12/18/20 10:57	WJD	TAL BUF
Total/NA	Analysis	8260C		8	563936	12/19/20 19:44	AMM	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-177381-2
Project/Site: Admiral Cleaners #401075

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 480-177381-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-177381-2	UST SOIL	Solid	10/30/20 13:45	10/31/20 08:00	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-177381-2

Login Number: 177381 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Albany #224

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-152546-33922.1
Client Contact: Brian Neumann	Phone:	E-Mail: Judy.Stone@Eurofinset.com		Page: Page 1 of 1
Company: Precision Environmental Services Inc.		Analysis Requested		Job #:

Address: 831 State Route 67 Ste 38	Due Date Requested:
City: Ballston Spa	TAT Requested (days):
State, Zip: NY, 12020	
Phone: 518-402-9814(Tel)	PO #: CallOut ID: 137526
Email: bneumann@pesnyinc.com	WO #:
Project Name: Admiral Cleaners #401075	Project #: 48021140
Site:	SSOW#:

480-177381 Chain of Custody

rate

F - Ice
J - DI Water
K - EDTA
L - EDA
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A - Flashpoint	6010C - TCLP Lead	NY_310.13 - Hydrocarbon Identification	8260C - TCL list VOAs	8015D_GRO - GRO	8015D_DRO - DRO	1020B - Ignitability	9012_ReactiveCN, 9034_Reactive	6010C, 7470A, 8081B, 8151A, 8270D	8250C - TCLP Volatiles	9012B, 9045D	8082A - TCL PCBs		Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N			
UST Liquid	10/30/20	1315	G	Waste			X	X	X	X	X	X								8	
UST Soil	10/30/20	1345	C	Solid									X	X	X	X	X	X		6	
UST-SOIL-2FTBGS-West	10/30/20	1345	G	Solid												X				1	
UST-SOIL-2FT BGS-North	10/30/20	1340	G	Solid												X				1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10/30/20 1555		Karl Zoda	10/30/20 1555	
2	Karl Zoda	10/30/20 1700			10/31/20 0800	TAB
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.3

Ver: 01/16/2019

12/22/2020

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-180920-1
Client Project/Site: Admiral Cleaners UST #2005615 PIN 08972

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Josh Haugh

Authorized for release by:
2/10/2021 3:23:50 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Wyatt Watson
Project Management Assistant I
2/10/2021 3:23:50 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-180920-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-180920-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-180920-1

Comments
No additional comments.

Receipt
The sample was received on 2/5/2021 9:30 AM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-568492 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCVIS were non-detect or below the reporting limit (RL) for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SOIL PILE 0-4ft (480-180920-1).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: SOIL PILE 0-4ft (480-180920-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted due to the nature of the TCLP matrix: SOIL PILE 0-4ft (480-180920-1) and (LB 480-568635/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30
Percent Solids: 82.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.3	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,1-Dichloroethene	ND	vs	5.9	0.72	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	2.9	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,2-Dichloropropane	ND	vs	5.9	2.9	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,4-Dichlorobenzene	ND	vs	5.9	0.83	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
2-Butanone (MEK)	ND	vs	29	2.2	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Acetone	**40**	**vs**	29	5.0	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Bromoform	ND	vs	5.9	2.9	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Bromomethane	ND	vs	5.9	0.53	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Carbon disulfide	ND	vs	5.9	2.9	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Dibromochloromethane	ND	vs	5.9	0.75	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Chloroethane	ND	vs	5.9	1.3	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Chloroform	ND	vs	5.9	0.36	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
cis-1,2-Dichloroethene	**7.9**	**vs**	5.9	0.75	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Cyclohexane	ND	vs	5.9	0.83	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Ethylbenzene	**0.50**	**J vs**	5.9	0.41	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Isopropylbenzene	ND	vs	5.9	0.89	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Methyl acetate	ND	vs	29	3.6	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Styrene	ND	vs	5.9	0.29	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Trichloroethene	**6.6**	**vs**	5.9	1.3	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1
Xylenes, Total	**2.0**	**J vs**	12	0.99	ug/Kg	☼	02/05/21 11:13	02/05/21 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*71 - 125*	*02/05/21 11:13*	*02/05/21 19:38*	*1*

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30
Percent Solids: 82.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*02/05/21 11:13*	*02/05/21 19:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*02/05/21 11:13*	*02/05/21 19:38*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*02/05/21 11:13*	*02/05/21 19:38*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**670**	**vs**	30	4.0	ug/Kg	☼	02/08/21 09:33	02/08/21 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*71 - 125*	*02/08/21 09:33*	*02/08/21 13:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*	*02/08/21 09:33*	*02/08/21 13:56*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*02/08/21 09:33*	*02/08/21 13:56*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*02/08/21 09:33*	*02/08/21 13:56*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/09/21 17:02	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/09/21 17:02	10
Benzene	ND		0.010	0.0041	mg/L			02/09/21 17:02	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/09/21 17:02	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/09/21 17:02	10
Chloroform	ND		0.010	0.0034	mg/L			02/09/21 17:02	10
Tetrachloroethene	**0.073**		0.010	0.0036	mg/L			02/09/21 17:02	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/09/21 17:02	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/09/21 17:02	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/09/21 17:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/09/21 17:02*	*10*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*02/09/21 17:02*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/09/21 17:02*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/09/21 17:02*	*10*

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-180920-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			568635	02/08/21 09:11	LMS	TAL BUF
TCLP	Analysis	8260C		10	568777	02/09/21 17:02	LCH	TAL BUF
Total/NA	Analysis	Moisture		1	568849	02/09/21 18:26	DSC	TAL BUF

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			568512	02/05/21 11:13	WJD	TAL BUF
Total/NA	Analysis	8260C		1	568492	02/05/21 19:38	WJD	TAL BUF
Total/NA	Prep	5035A_L	DL		568643	02/08/21 09:33	WJD	TAL BUF
Total/NA	Analysis	8260C	DL	1	568599	02/08/21 13:56	CDC	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-180920-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: New York State D.E.C.
Job ID: 480-180920-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
1311	TCLP Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Job ID: 480-180920-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180920-1	SOIL PILE 0-4ft	Solid	02/04/21 14:40	02/05/21 09:30	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-180920-1

Login Number: 180920
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Albany #224

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Client Information	Sampler: Brian Neumann	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No:
Client Contact: Brian Neumann	Phone: 518-885-4399	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: Precision Environmental Services Inc.				Job #:
Address: 831 State Route 67 Ste 38	Due Date Requested:			
City: Ballston Spa	TAT Requested (days): 72 hours			
State, Zip: NY, 12020				
Phone: 518-885-4399	PO #: CallOut ID: 139442			
Email: bneumann@pesnyinc.com	WO #:			
Project Name: Admiral Cleaners, Spill No. **2005615**, PIN No. 08972	Project #:			
Site: 617 19th Street, Watervliet, NY	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

480-180920 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260 Totals	8260 TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Soil Pile 0'-4'	2-4-21	1440	G	S			X	X	2	

TMK

2-4-2021

Possible Hazard Identification
☐ x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ x Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) PES service center drop off

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: 2/4/21 1330 Time: Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	2/4/21 1540	PES	Received by:	2-4-21 1540	EET
Relinquished by:	2-4-2021 1700	EET	Received by:	2/5/21 0930	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: FF 2.5

Ver: 01/16/2019

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-180920-2
Client Project/Site: Admiral Cleaners UST #2005615 PIN 08972

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Josh Haugh

Authorized for release by:
2/25/2021 11:46:45 AM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Judy Stone
Senior Project Manager
2/25/2021 11:46:45 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-180920-2
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-180920-2

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-180920-2

Comments
The sample was relogged and activated for TCLP and waste characterization testing by the client 2/17/21.

Receipt
The samples were received on 2/5/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5º C.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-570145 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated sample is impacted: SOIL PILE 0-4ft (480-180920-1).

Method 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batches 480-569826 and 480-570027 and analytical batch 480-570145 recovered outside control limits for the following analyte: Pentachlorophenol. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8151A: Surrogate recovery for the following samples were outside control limits: SOIL PILE 0-4ft (480-180920-1) and (LB 480-569826/1-F). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9034: The following sample was prepared outside of preparation holding time due to laboratory error : SOIL PILE 0-4ft (480-180920-1).

Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: SOIL PILE 0-4ft (480-180920-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 8151A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: SOIL PILE 0-4ft (480-180920-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C.
Job ID: 480-180920-2
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/18/21 15:47	02/19/21 20:19	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/18/21 15:47	02/19/21 20:19	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/18/21 15:47	02/19/21 20:19	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/18/21 15:47	02/19/21 20:19	1
2-Methylphenol	ND		0.020	0.0016	mg/L		02/18/21 15:47	02/19/21 20:19	1
3-Methylphenol	ND		0.040	0.0016	mg/L		02/18/21 15:47	02/19/21 20:19	1
4-Methylphenol	ND		0.040	0.0014	mg/L		02/18/21 15:47	02/19/21 20:19	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/18/21 15:47	02/19/21 20:19	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/18/21 15:47	02/19/21 20:19	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/18/21 15:47	02/19/21 20:19	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/18/21 15:47	02/19/21 20:19	1
Pentachlorophenol	ND	*+	0.040	0.0088	mg/L		02/18/21 15:47	02/19/21 20:19	1
Pyridine	ND		0.10	0.0016	mg/L		02/18/21 15:47	02/19/21 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*41 - 120*	*02/18/21 15:47*	*02/19/21 20:19*	*1*
2-Fluorobiphenyl	*96*		*48 - 120*	*02/18/21 15:47*	*02/19/21 20:19*	*1*
2-Fluorophenol (Surr)	*51*		*35 - 120*	*02/18/21 15:47*	*02/19/21 20:19*	*1*
Nitrobenzene-d5 (Surr)	*98*		*46 - 120*	*02/18/21 15:47*	*02/19/21 20:19*	*1*
p-Terphenyl-d14 (Surr)	*89*		*60 - 148*	*02/18/21 15:47*	*02/19/21 20:19*	*1*
Phenol-d5 (Surr)	*34*		*22 - 120*	*02/18/21 15:47*	*02/19/21 20:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		02/18/21 15:51	02/19/21 10:53	1
Endrin	ND		0.00020	0.000014	mg/L		02/18/21 15:51	02/19/21 10:53	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		02/18/21 15:51	02/19/21 10:53	1
Heptachlor	ND		0.00020	0.0000085	mg/L		02/18/21 15:51	02/19/21 10:53	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		02/18/21 15:51	02/19/21 10:53	1
Methoxychlor	**0.000064**	**J**	0.00020	0.000014	mg/L		02/18/21 15:51	02/19/21 10:53	1
Toxaphene	ND		0.0020	0.00012	mg/L		02/18/21 15:51	02/19/21 10:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*20 - 120*	*02/18/21 15:51*	*02/19/21 10:53*	*1*
Tetrachloro-m-xylene	*82*		*44 - 120*	*02/18/21 15:51*	*02/19/21 10:53*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		02/22/21 09:15	02/23/21 15:00	1
2,4-D	ND		0.0020	0.00040	mg/L		02/22/21 09:15	02/23/21 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*21*	*S1-*	*48 - 132*	*02/22/21 09:15*	*02/23/21 15:00*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/18/21 09:58	02/18/21 20:52	1
Barium	**0.59**	**J**	1.0	0.10	mg/L		02/18/21 09:58	02/18/21 20:52	1
Cadmium	**0.0030**		0.0020	0.00050	mg/L		02/18/21 09:58	02/18/21 20:52	1
Chromium	ND		0.020	0.010	mg/L		02/18/21 09:58	02/18/21 20:52	1
Lead	**0.041**		0.020	0.0030	mg/L		02/18/21 09:58	02/18/21 20:52	1

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30

Method: 6010C - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		02/18/21 09:58	02/18/21 20:52	1
Silver	ND		0.0060	0.0017	mg/L		02/18/21 09:58	02/18/21 20:52	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		02/18/21 11:15	02/18/21 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		50.0	50.0	Degrees F			02/18/21 16:13	1
Cyanide, Reactive	ND		10	10	mg/Kg		02/18/21 10:58	02/18/21 17:31	1
Sulfide, Reactive	ND	H	10	10	mg/Kg		02/18/21 10:58	02/18/21 14:45	1
pH	**7.5**	**HF**	0.1	0.1	SU			02/17/21 15:00	1
Temperature	**19.9**	**HF**	0.001	0.001	Degrees C			02/17/21 15:00	1

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30
Percent Solids: 82.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.042	mg/Kg	☼	02/19/21 08:56	02/21/21 19:47	1
PCB-1221	ND		0.21	0.042	mg/Kg	☼	02/19/21 08:56	02/21/21 19:47	1
PCB-1232	ND		0.21	0.042	mg/Kg	☼	02/19/21 08:56	02/21/21 19:47	1
PCB-1242	ND		0.21	0.042	mg/Kg	☼	02/19/21 08:56	02/21/21 19:47	1
PCB-1248	ND		0.21	0.042	mg/Kg	☼	02/19/21 08:56	02/21/21 19:47	1
PCB-1254	ND		0.21	0.10	mg/Kg	☼	02/19/21 08:56	02/21/21 19:47	1
PCB-1260	ND		0.21	0.10	mg/Kg	☼	02/19/21 08:56	02/21/21 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*119*		*60 - 154*	*02/19/21 08:56*	*02/21/21 19:47*	*1*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*02/19/21 08:56*	*02/21/21 19:47*	*1*

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-180920-2
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			569826	02/17/21 12:25	LMS	TAL BUF
TCLP	Prep	3510C			570027	02/18/21 15:47	ATG	TAL BUF
TCLP	Analysis	8270D		1	570145	02/19/21 20:19	PJQ	TAL BUF
TCLP	Leach	1311			569826	02/17/21 12:25	LMS	TAL BUF
TCLP	Prep	3510C			570030	02/18/21 15:51	ATG	TAL BUF
TCLP	Analysis	8081B		1	570061	02/19/21 10:53	JLS	TAL BUF
TCLP	Leach	1311			569826	02/17/21 12:25	LMS	TAL BUF
TCLP	Prep	8151A			570200	02/22/21 09:15	JMP	TAL BUF
TCLP	Analysis	8151A		1	570293	02/23/21 15:00	MAN	TAL BUF
TCLP	Leach	1311			569826	02/17/21 12:25	LMS	TAL BUF
TCLP	Prep	3010A			569937	02/18/21 09:58	ADM	TAL BUF
TCLP	Analysis	6010C		1	570087	02/18/21 20:52	AMH	TAL BUF
TCLP	Leach	1311			569826	02/17/21 12:25	LMS	TAL BUF
TCLP	Prep	7470A			569963	02/18/21 11:15	BMB	TAL BUF
TCLP	Analysis	7470A		1	570019	02/18/21 15:01	ADM	TAL BUF
Total/NA	Analysis	1010A		1	570034	02/18/21 16:13	CRK	TAL BUF
Total/NA	Prep	7.3.3			570024	02/18/21 10:58	MJB	TAL BUF
Total/NA	Analysis	9012		1	570047	02/18/21 17:31	ALT	TAL BUF
Total/NA	Prep	7.3.4			570026	02/18/21 10:58	MJB	TAL BUF
Total/NA	Analysis	9034		1	570028	02/18/21 14:45	MJB	TAL BUF
Total/NA	Analysis	9045D		1	569875	02/17/21 15:00	CSS	TAL BUF

Client Sample ID: SOIL PILE 0-4ft
Lab Sample ID: 480-180920-1
Date Collected: 02/04/21 14:40
Matrix: Solid
Date Received: 02/05/21 09:30
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570093	02/19/21 08:56	VXF	TAL BUF
Total/NA	Analysis	8082A		1	570176	02/21/21 19:47	NC	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-180920-2
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature

Method Summary

Client: New York State D.E.C.
Job ID: 480-180920-2
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
1311	TCLP Extraction	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
7.3.3	Cyanide, Reactive	SW846	TAL BUF
7.3.4	Sulfide, Reactive	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Job ID: 480-180920-2
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180920-1	SOIL PILE 0-4ft	Solid	02/04/21 14:40	02/05/21 09:30	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-180920-2

Login Number: 180920 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	pes
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Brian Neumann	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No:
Client Contact: Brian Neumann	Phone: 518-885-4399	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: Precision Environmental Services Inc.				Job #:
Address: 831 State Route 67 Ste 38	Due Date Requested:			
City: Ballston Spa	TAT Requested (days): 72 hours			
State, Zip: NY, 12020				
Phone: 518-885-4399	PO #: CallOut ID: 139442			
Email: bneumann@pesnyinc.com	WO #:			
Project Name: Admiral Cleaners, Spill No. **2005615**, PIN No. 08972	Project #:			
Site: 617 19th Street, Watervliet, NY	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

480-180920 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260 Totals	8260 TCLP	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N		
Soil Pile 0'-4'	2-4-21	1440	G	S			X	X	2	

TMK

2-4-2021

Possible Hazard Identification
☐ x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ x Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) PES service center drop off

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: 2/4/21 1330 Time: Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	2/4/21 1540	PES	Received by:	2-4-21 1540	EEN
Relinquished by:	2-4-2021 1700	EEN	Received by:	2/5/21 0930	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: FF 2.5

Ver: 01/16/2019

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-180928-1
Client Project/Site: Admiral Cleaners UST #2005615 PIN 08972

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Josh Haugh

Authorized for release by:
2/11/2021 5:15:17 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Judy Stone
Senior Project Manager
2/11/2021 5:15:17 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-180928-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-180928-1

Receipt
The samples were received on 2/5/2021 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-568871 recovered outside acceptance criteria, low biased, for 2-Hexanone, 4-Methyl-2-pentaone (MIBK), and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: 401075-20210204-NORTH TANK (480-180928-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 480-568763 and analytical batch 480-568871 recovered outside control limits for the following analyte: 4-Methyl-2pentaone (MIBK). 4-methyl-2-pentaone has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: 401075-20210203-SOUTH TANK (480-180928-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method 8015D: The following sample was diluted due to the abundance of target analytes: 401075-20210204-NORTH TANK (480-180928-2). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8015D: Reported analyte concentrations in the following sample are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications: 401075-20210204-NORTH TANK (480-180928-2).

Method 8015D: The following sample was diluted due to the nature of the sample matrix: 401075-20210203-SOUTH TANK (480-180928-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following sample was diluted due to the abundance of target analytes: 401075-20210204-NORTH TANK (480-180928-2). As such, surrogate recovery is below the calibration range, estimated, and not representative. Elevated reporting limits (RLs) are provided.

Method 8015D: The following sample was diluted to bring the concentration of target analytes within the calibration range: 401075-20210203-SOUTH TANK (480-180928-3). Elevated reporting limits (RLs) are provided.

Method 310.13: The following sample was diluted to bring the concentration of target analytes within the calibration range: 401075-20210204-NORTH TANK (480-180928-2). Elevated reporting limits (RLs) are provided.

Method 310.13: The following sample was diluted to bring the concentration of target analytes within the calibration range: 401075-20210203-SOUTH TANK (480-180928-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-180928-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Organic Prep

Method 3510C: Insufficient sample volume was provided for the following sample for the 8015 analysis: 401075-20210203-SOUTH TANK (480-180928-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: 401075-20210204-NORTH TANK
Lab Sample ID: 480-180928-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dibromo-3-Chloropropane	130000		40000	20000	ug/Kg	400		8260C	Total/NA
Ethylbenzene	510000		40000	12000	ug/Kg	400		8260C	Total/NA
Isopropylbenzene	640000		40000	6000	ug/Kg	400		8260C	Total/NA
Tetrachloroethene	2300000		40000	5300	ug/Kg	400		8260C	Total/NA
Toluene	13000	J	40000	11000	ug/Kg	400		8260C	Total/NA
Xylenes, Total	1300000		80000	22000	ug/Kg	400		8260C	Total/NA
Gasoline Range Organics (GRO)-C6-C10	1500000		48000	13000	mg/Kg	2000		8015D	Total/NA
Kerosene	1000000		21000	21000	mg/Kg	50		310.13	Total/NA
Diesel Range Organics [C10-C28]	780000		210000	63000	mg/Kg	50		8015D	Total/NA

Client Sample ID: 401075-20210203-SOUTH TANK
Lab Sample ID: 480-180928-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	380	J	400	320	ug/L	400		8260C	Total/NA
Methylene Chloride	180	J	400	180	ug/L	400		8260C	Total/NA
Tetrachloroethene	11000		400	140	ug/L	400		8260C	Total/NA
GRO (C6-C10)	35000		13000	2100	ug/L	500		8015D	Total/NA
Kerosene	160		5.0	5.0	mg/L	5		310.13	Total/NA
Fuel Oil #2	150		5.0	5.0	mg/L	5		310.13	Total/NA
Diesel Range Organics [C10-C28]	150		5.0	3.1	mg/L	5		8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: 401075-20210204-NORTH TANK
Lab Sample ID: 480-180928-2
Date Collected: 02/04/21 10:00
Matrix: Waste
Date Received: 02/05/21 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40000	11000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,1,2,2-Tetrachloroethane	ND		40000	6500	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,1,2-Trichloroethane	ND		40000	8300	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40000	20000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,1-Dichloroethane	ND		40000	12000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,1-Dichloroethene	ND		40000	14000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,2,4-Trichlorobenzene	ND		40000	15000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,2-Dibromo-3-Chloropropane	**130000**		40000	20000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,2-Dichlorobenzene	ND		40000	10000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,2-Dichloroethane	ND		40000	16000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,2-Dichloropropane	ND		40000	6400	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,3-Dichlorobenzene	ND		40000	11000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,4-Dichlorobenzene	ND		40000	5600	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
2-Butanone (MEK)	ND		200000	120000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
2-Hexanone	ND		200000	82000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
4-Methyl-2-pentanone (MIBK)	ND	*-	200000	13000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Acetone	ND		200000	160000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Benzene	ND		40000	7600	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Bromodichloromethane	ND		40000	8000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Bromoform	ND		40000	20000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Bromomethane	ND		40000	8700	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Carbon disulfide	ND		40000	18000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Carbon tetrachloride	ND		40000	10000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Chlorobenzene	ND		40000	5200	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Dibromochloromethane	ND		40000	19000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Chloroethane	ND		40000	8300	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Chloroform	ND		40000	27000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Chloromethane	ND		40000	9500	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
cis-1,2-Dichloroethene	ND		40000	11000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
cis-1,3-Dichloropropene	ND		40000	9500	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Cyclohexane	ND		40000	8800	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Dichlorodifluoromethane	ND		40000	17000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Ethylbenzene	**510000**		40000	12000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
1,2-Dibromoethane	ND		40000	7000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Isopropylbenzene	**640000**		40000	6000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Methyl acetate	ND		200000	19000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Methyl tert-butyl ether	ND		40000	15000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Methylcyclohexane	ND		40000	19000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Methylene Chloride	ND		40000	7900	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Styrene	ND		40000	9600	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Tetrachloroethene	**2300000**		40000	5300	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Toluene	**13000**	**J**	40000	11000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
trans-1,2-Dichloroethene	ND		40000	9400	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
trans-1,3-Dichloropropene	ND		40000	3900	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Trichloroethene	ND		40000	11000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Trichlorofluoromethane	ND		40000	19000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Vinyl chloride	ND		40000	13000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400
Xylenes, Total	**1300000**		80000	22000	ug/Kg		02/09/21 08:55	02/10/21 12:40	400

Client Sample ID: 401075-20210204-NORTH TANK
Lab Sample ID: 480-180928-2

Date Collected: 02/04/21 10:00
Matrix: Waste
Date Received: 02/05/21 09:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*50 - 149*	*02/09/21 08:55*	*02/10/21 12:40*	*400*
1,2-Dichloroethane-d4 (Surr)	*96*		*53 - 146*	*02/09/21 08:55*	*02/10/21 12:40*	*400*
4-Bromofluorobenzene (Surr)	*91*		*49 - 148*	*02/09/21 08:55*	*02/10/21 12:40*	*400*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*02/09/21 08:55*	*02/10/21 12:40*	*400*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1500000**		48000	13000	mg/Kg		02/10/21 07:41	02/10/21 12:09	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*0*	*S1-*	*46 - 156*	*02/10/21 07:41*	*02/10/21 12:09*	*2000*

Method: 310.13 - Identification of Routine Petroleum Products

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		8300	8300	mg/Kg		02/09/21 07:10	02/09/21 12:35	50
Kerosene	**1000000**		21000	21000	mg/Kg		02/09/21 07:10	02/09/21 12:35	50
Motor Oil	ND		42000	42000	mg/Kg		02/09/21 07:10	02/09/21 12:35	50
Fuel Oil #2	ND		21000	21000	mg/Kg		02/09/21 07:10	02/09/21 12:35	50
Fuel Oil #4	ND		21000	21000	mg/Kg		02/09/21 07:10	02/09/21 12:35	50
Fuel Oil #6	ND		21000	21000	mg/Kg		02/09/21 07:10	02/09/21 12:35	50
Unknown Hydrocarbons	ND		8300	8300	mg/Kg		02/09/21 07:10	02/09/21 12:35	50

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**780000**		210000	63000	mg/Kg		02/09/21 07:10	02/09/21 12:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*48 - 125*	*02/09/21 07:10*	*02/09/21 12:35*	*50*

Client Sample ID: 401075-20210203-SOUTH TANK
Lab Sample ID: 480-180928-3

Date Collected: 02/03/21 12:30
Matrix: Water
Date Received: 02/05/21 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		400	330	ug/L			02/10/21 12:17	400
1,1,2,2-Tetrachloroethane	ND		400	84	ug/L			02/10/21 12:17	400
1,1,2-Trichloroethane	ND		400	92	ug/L			02/10/21 12:17	400
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		400	120	ug/L			02/10/21 12:17	400
1,1-Dichloroethane	ND		400	150	ug/L			02/10/21 12:17	400
1,1-Dichloroethene	ND		400	120	ug/L			02/10/21 12:17	400
1,2,4-Trichlorobenzene	ND		400	160	ug/L			02/10/21 12:17	400
1,2-Dibromo-3-Chloropropane	ND		400	160	ug/L			02/10/21 12:17	400
1,2-Dichlorobenzene	ND		400	320	ug/L			02/10/21 12:17	400
1,2-Dichloroethane	ND		400	84	ug/L			02/10/21 12:17	400
1,2-Dichloropropane	ND		400	290	ug/L			02/10/21 12:17	400
1,3-Dichlorobenzene	ND		400	310	ug/L			02/10/21 12:17	400
1,4-Dichlorobenzene	ND		400	340	ug/L			02/10/21 12:17	400
2-Butanone (MEK)	ND		4000	530	ug/L			02/10/21 12:17	400
2-Hexanone	ND		2000	500	ug/L			02/10/21 12:17	400
4-Methyl-2-pentanone (MIBK)	ND		2000	840	ug/L			02/10/21 12:17	400

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: 401075-20210203-SOUTH TANK
Lab Sample ID: 480-180928-3
Date Collected: 02/03/21 12:30
Matrix: Water
Date Received: 02/05/21 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4000	1200	ug/L			02/10/21 12:17	400
Benzene	ND		400	160	ug/L			02/10/21 12:17	400
Bromodichloromethane	ND		400	160	ug/L			02/10/21 12:17	400
Bromoform	ND		400	100	ug/L			02/10/21 12:17	400
Bromomethane	ND		400	280	ug/L			02/10/21 12:17	400
Carbon disulfide	ND		400	76	ug/L			02/10/21 12:17	400
Carbon tetrachloride	ND		400	110	ug/L			02/10/21 12:17	400
Chlorobenzene	ND		400	300	ug/L			02/10/21 12:17	400
Dibromochloromethane	ND		400	130	ug/L			02/10/21 12:17	400
Chloroethane	ND		400	130	ug/L			02/10/21 12:17	400
Chloroform	ND		400	140	ug/L			02/10/21 12:17	400
Chloromethane	ND		400	140	ug/L			02/10/21 12:17	400
cis-1,2-Dichloroethene	**380**	**J**	400	320	ug/L			02/10/21 12:17	400
cis-1,3-Dichloropropene	ND		400	140	ug/L			02/10/21 12:17	400
Cyclohexane	ND		400	72	ug/L			02/10/21 12:17	400
Dichlorodifluoromethane	ND		400	270	ug/L			02/10/21 12:17	400
Ethylbenzene	ND		400	300	ug/L			02/10/21 12:17	400
1,2-Dibromoethane	ND		400	290	ug/L			02/10/21 12:17	400
Isopropylbenzene	ND		400	320	ug/L			02/10/21 12:17	400
Methyl acetate	ND		1000	520	ug/L			02/10/21 12:17	400
Methyl tert-butyl ether	ND		400	64	ug/L			02/10/21 12:17	400
Methylcyclohexane	ND		400	64	ug/L			02/10/21 12:17	400
Methylene Chloride	**180**	**J**	400	180	ug/L			02/10/21 12:17	400
Styrene	ND		400	290	ug/L			02/10/21 12:17	400
Tetrachloroethene	**11000**		400	140	ug/L			02/10/21 12:17	400
Toluene	ND		400	200	ug/L			02/10/21 12:17	400
trans-1,2-Dichloroethene	ND		400	360	ug/L			02/10/21 12:17	400
trans-1,3-Dichloropropene	ND		400	150	ug/L			02/10/21 12:17	400
Trichloroethene	ND		400	180	ug/L			02/10/21 12:17	400
Trichlorofluoromethane	ND		400	350	ug/L			02/10/21 12:17	400
Vinyl chloride	ND		400	360	ug/L			02/10/21 12:17	400
Xylenes, Total	ND		800	260	ug/L			02/10/21 12:17	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*02/10/21 12:17*	*400*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*02/10/21 12:17*	*400*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*02/10/21 12:17*	*400*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*02/10/21 12:17*	*400*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	**35000**		13000	2100	ug/L			02/11/21 12:50	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*72 - 125*		*02/11/21 12:50*	*500*

Method: 310.13 - Identification of Routine Petroleum Products

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		2.0	2.0	mg/L		02/09/21 15:11	02/10/21 12:36	5
Kerosene	**160**		5.0	5.0	mg/L		02/09/21 15:11	02/10/21 12:36	5

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: 401075-20210203-SOUTH TANK
Lab Sample ID: 480-180928-3
Date Collected: 02/03/21 12:30
Matrix: Water
Date Received: 02/05/21 09:30

Method: 310.13 - Identification of Routine Petroleum Products (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil	ND		10	10	mg/L		02/09/21 15:11	02/10/21 12:36	5
Fuel Oil #2	**150**		5.0	5.0	mg/L		02/09/21 15:11	02/10/21 12:36	5
Fuel Oil #4	ND		5.0	5.0	mg/L		02/09/21 15:11	02/10/21 12:36	5
Fuel Oil #6	ND		5.0	5.0	mg/L		02/09/21 15:11	02/10/21 12:36	5
Unknown Hydrocarbons	ND		2.0	2.0	mg/L		02/09/21 15:11	02/10/21 12:36	5

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**		5.0	3.1	mg/L		02/09/21 15:11	02/10/21 12:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*51 - 120*	*02/09/21 15:11*	*02/10/21 12:36*	*5*

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Job ID: 480-180928-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Waste — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-149)	(53-146)	(49-148)	(60-140)
480-180928-2	401075-20210204-NORTH TANK	92	96	91	100
LCS 480-568763/1-A	Lab Control Sample	100	88	99	97

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Waste — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
MB 480-568763/2-A	Method Blank	98	95	96	96

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-180928-3	401075-20210203-SOUTH TANK	107	98	104	100
LCS 480-568871/5	Lab Control Sample	102	91	101	97
MB 480-568871/8	Method Blank	102	94	98	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Waste — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	Client Sample ID	(46-156)
480-180928-2	401075-20210204-NORTH TANK	0 S1-
LCS 480-568876/2-A	Lab Control Sample	87
LCSD 480-568876/3-A	Lab Control Sample Dup	90
MB 480-568876/1-A	Method Blank	97

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	Client Sample ID	(72-125)
480-180928-3	401075-20210203-SOUTH TANK	101
LCS 480-569072/6	Lab Control Sample	98
LCSD 480-569072/7	Lab Control Sample Dup	98
MB 480-569072/5	Method Blank	101

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Waste
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH
Lab Sample ID	Client Sample ID	(48-125)
480-180928-2	401075-20210204-NORTH TANK	97
LCS 480-568732/2-A	Lab Control Sample	101
LCSD 480-568732/3-A	Lab Control Sample Dup	97
MB 480-568732/1-A	Method Blank	91

Surrogate Legend

OTPH = o-Terphenyl

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH
Lab Sample ID	Client Sample ID	(51-120)
480-180928-3	401075-20210203-SOUTH TANK	99
LCS 480-568832/2-A	Lab Control Sample	80
LCSD 480-568832/3-A	Lab Control Sample Dup	79
MB 480-568832/1-A	Method Blank	81

Surrogate Legend

OTPH = o-Terphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-568763/2-A
Matrix: Waste
Analysis Batch: 568871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,1,2-Trichloroethane	ND		100	23	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,1-Dichloroethane	ND		100	38	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,1-Dichloroethene	ND		100	29	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,2,4-Trichlorobenzene	ND		100	41	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,2-Dichlorobenzene	ND		100	79	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,2-Dichloroethane	ND		100	21	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,2-Dichloropropane	ND		100	72	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,3-Dichlorobenzene	ND		100	78	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,4-Dichlorobenzene	ND		100	84	ug/L		02/09/21 08:55	02/10/21 11:35	1
2-Butanone (MEK)	ND		1000	130	ug/L		02/09/21 08:55	02/10/21 11:35	1
2-Hexanone	ND		500	120	ug/L		02/09/21 08:55	02/10/21 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L		02/09/21 08:55	02/10/21 11:35	1
Acetone	ND		1000	300	ug/L		02/09/21 08:55	02/10/21 11:35	1
Benzene	ND		100	41	ug/L		02/09/21 08:55	02/10/21 11:35	1
Bromodichloromethane	ND		100	39	ug/L		02/09/21 08:55	02/10/21 11:35	1
Bromoform	ND		100	26	ug/L		02/09/21 08:55	02/10/21 11:35	1
Bromomethane	ND		100	69	ug/L		02/09/21 08:55	02/10/21 11:35	1
Carbon disulfide	ND		100	19	ug/L		02/09/21 08:55	02/10/21 11:35	1
Carbon tetrachloride	ND		100	27	ug/L		02/09/21 08:55	02/10/21 11:35	1
Chlorobenzene	ND		100	75	ug/L		02/09/21 08:55	02/10/21 11:35	1
Dibromochloromethane	ND		100	32	ug/L		02/09/21 08:55	02/10/21 11:35	1
Chloroethane	ND		100	32	ug/L		02/09/21 08:55	02/10/21 11:35	1
Chloroform	ND		100	34	ug/L		02/09/21 08:55	02/10/21 11:35	1
Chloromethane	ND		100	35	ug/L		02/09/21 08:55	02/10/21 11:35	1
cis-1,2-Dichloroethene	ND		100	81	ug/L		02/09/21 08:55	02/10/21 11:35	1
cis-1,3-Dichloropropene	ND		100	36	ug/L		02/09/21 08:55	02/10/21 11:35	1
Cyclohexane	ND		100	18	ug/L		02/09/21 08:55	02/10/21 11:35	1
Dichlorodifluoromethane	ND		100	68	ug/L		02/09/21 08:55	02/10/21 11:35	1
Ethylbenzene	ND		100	74	ug/L		02/09/21 08:55	02/10/21 11:35	1
1,2-Dibromoethane	ND		100	73	ug/L		02/09/21 08:55	02/10/21 11:35	1
Isopropylbenzene	ND		100	79	ug/L		02/09/21 08:55	02/10/21 11:35	1
Methyl acetate	ND		250	130	ug/L		02/09/21 08:55	02/10/21 11:35	1
Methyl tert-butyl ether	ND		100	16	ug/L		02/09/21 08:55	02/10/21 11:35	1
Methylcyclohexane	ND		100	16	ug/L		02/09/21 08:55	02/10/21 11:35	1
Methylene Chloride	ND		100	44	ug/L		02/09/21 08:55	02/10/21 11:35	1
Styrene	ND		100	73	ug/L		02/09/21 08:55	02/10/21 11:35	1
Tetrachloroethene	ND		100	36	ug/L		02/09/21 08:55	02/10/21 11:35	1
Toluene	ND		100	51	ug/L		02/09/21 08:55	02/10/21 11:35	1
trans-1,2-Dichloroethene	ND		100	90	ug/L		02/09/21 08:55	02/10/21 11:35	1
trans-1,3-Dichloropropene	ND		100	37	ug/L		02/09/21 08:55	02/10/21 11:35	1
Trichloroethene	ND		100	46	ug/L		02/09/21 08:55	02/10/21 11:35	1
Trichlorofluoromethane	ND		100	88	ug/L		02/09/21 08:55	02/10/21 11:35	1
Vinyl chloride	ND		100	90	ug/L		02/09/21 08:55	02/10/21 11:35	1
Xylenes, Total	ND		200	66	ug/L		02/09/21 08:55	02/10/21 11:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-568763/2-A
Matrix: Waste
Analysis Batch: 568871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568763

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*80 - 120*	*02/09/21 08:55*	*02/10/21 11:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*	*02/09/21 08:55*	*02/10/21 11:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*	*02/09/21 08:55*	*02/10/21 11:35*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*	*02/09/21 08:55*	*02/10/21 11:35*	*1*

Lab Sample ID: LCS 480-568763/1-A
Matrix: Waste
Analysis Batch: 568871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2740		ug/Kg		110	68 - 130
1,1,2,2-Tetrachloroethane	2500	1860		ug/Kg		74	73 - 120
1,1,2-Trichloroethane	2500	2390		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2910		ug/Kg		117	10 - 179
1,1-Dichloroethane	2500	2680		ug/Kg		107	78 - 121
1,1-Dichloroethene	2500	2690		ug/Kg		108	48 - 133
1,2,4-Trichlorobenzene	2500	2550		ug/Kg		102	70 - 140
1,2-Dibromo-3-Chloropropane	2500	1460		ug/Kg		58	56 - 122
1,2-Dichlorobenzene	2500	2560		ug/Kg		102	78 - 125
1,2-Dichloroethane	2500	2450		ug/Kg		98	74 - 127
1,2-Dichloropropane	2500	2540		ug/Kg		101	80 - 120
1,3-Dichlorobenzene	2500	2660		ug/Kg		106	80 - 120
1,4-Dichlorobenzene	2500	2580		ug/Kg		103	80 - 120
2-Butanone (MEK)	12500	8190		ug/Kg		65	54 - 149
2-Hexanone	12500	7880		ug/Kg		63	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	8340	*-	ug/Kg		67	74 - 120
Acetone	12500	8900		ug/Kg		71	47 - 141
Benzene	2500	2680		ug/Kg		107	77 - 125
Bromodichloromethane	2500	2470		ug/Kg		99	71 - 121
Bromoform	2500	2040		ug/Kg		82	48 - 125
Bromomethane	2500	1870		ug/Kg		75	39 - 149
Carbon disulfide	2500	2510		ug/Kg		100	40 - 136
Carbon tetrachloride	2500	2750		ug/Kg		110	54 - 135
Chlorobenzene	2500	2670		ug/Kg		107	76 - 126
Dibromochloromethane	2500	2220		ug/Kg		89	64 - 120
Chloroethane	2500	1870		ug/Kg		75	23 - 150
Chloroform	2500	2500		ug/Kg		100	78 - 120
Chloromethane	2500	2550		ug/Kg		102	61 - 124
cis-1,2-Dichloroethene	2500	2640		ug/Kg		106	79 - 124
cis-1,3-Dichloropropene	2500	2490		ug/Kg		99	75 - 121
Cyclohexane	2500	2920		ug/Kg		117	49 - 129
Dichlorodifluoromethane	2500	2230		ug/Kg		89	10 - 150
Ethylbenzene	2500	2680		ug/Kg		107	78 - 124
1,2-Dibromoethane	2500	2300		ug/Kg		92	80 - 120
Isopropylbenzene	2500	2670		ug/Kg		107	76 - 120
Methyl acetate	5000	4070		ug/Kg		81	71 - 123
Methyl tert-butyl ether	2500	2360		ug/Kg		94	67 - 137
Methylcyclohexane	2500	2930		ug/Kg		117	50 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-568763/1-A
Matrix: Waste
Analysis Batch: 568871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568763

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			2500	2710		ug/Kg		108	75 - 118		
Styrene			2500	2690		ug/Kg		108	80 - 120		
Tetrachloroethene			2500	2710		ug/Kg		109	73 - 133		
Toluene			2500	2700		ug/Kg		108	75 - 124		
trans-1,2-Dichloroethene			2500	2730		ug/Kg		109	74 - 129		
trans-1,3-Dichloropropene			2500	2310		ug/Kg		93	73 - 120		
Trichloroethene			2500	2650		ug/Kg		106	75 - 131		
Trichlorofluoromethane			2500	2600		ug/Kg		104	29 - 158		
Vinyl chloride			2500	2610		ug/Kg		104	59 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*50 - 149*
1,2-Dichloroethane-d4 (Surr)	*88*		*53 - 146*
4-Bromofluorobenzene (Surr)	*99*		*49 - 148*
Dibromofluoromethane (Surr)	*97*		*60 - 140*

Lab Sample ID: MB 480-568871/8
Matrix: Water
Analysis Batch: 568871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/10/21 11:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/10/21 11:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/10/21 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/10/21 11:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/10/21 11:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/10/21 11:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/10/21 11:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/10/21 11:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/10/21 11:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/10/21 11:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/10/21 11:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/10/21 11:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/10/21 11:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/10/21 11:12	1
2-Hexanone	ND		5.0	1.2	ug/L			02/10/21 11:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/10/21 11:12	1
Acetone	ND		10	3.0	ug/L			02/10/21 11:12	1
Benzene	ND		1.0	0.41	ug/L			02/10/21 11:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/10/21 11:12	1
Bromoform	ND		1.0	0.26	ug/L			02/10/21 11:12	1
Bromomethane	ND		1.0	0.69	ug/L			02/10/21 11:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/10/21 11:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/10/21 11:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/10/21 11:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/10/21 11:12	1
Chloroethane	ND		1.0	0.32	ug/L			02/10/21 11:12	1
Chloroform	ND		1.0	0.34	ug/L			02/10/21 11:12	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-568871/8
Matrix: Water
Analysis Batch: 568871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			02/10/21 11:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/10/21 11:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/10/21 11:12	1
Cyclohexane	ND		1.0	0.18	ug/L			02/10/21 11:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/10/21 11:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/10/21 11:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/10/21 11:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/10/21 11:12	1
Methyl acetate	ND		2.5	1.3	ug/L			02/10/21 11:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/10/21 11:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/10/21 11:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/10/21 11:12	1
Styrene	ND		1.0	0.73	ug/L			02/10/21 11:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/10/21 11:12	1
Toluene	ND		1.0	0.51	ug/L			02/10/21 11:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/10/21 11:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/10/21 11:12	1
Trichloroethene	ND		1.0	0.46	ug/L			02/10/21 11:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/10/21 11:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/10/21 11:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/10/21 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/10/21 11:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*02/10/21 11:12*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*02/10/21 11:12*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*02/10/21 11:12*	*1*

Lab Sample ID: LCS 480-568871/5
Matrix: Water
Analysis Batch: 568871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.4		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.0		ug/L		80	76 - 120
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.2		ug/L		121	61 - 148
1,1-Dichloroethane	25.0	26.7		ug/L		107	77 - 120
1,1-Dichloroethene	25.0	27.8		ug/L		111	66 - 127
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	16.2		ug/L		65	56 - 134
1,2-Dichlorobenzene	25.0	26.8		ug/L		107	80 - 124
1,2-Dichloroethane	25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	27.3		ug/L		109	77 - 120
1,4-Dichlorobenzene	25.0	27.3		ug/L		109	80 - 120
2-Butanone (MEK)	125	87.0		ug/L		70	57 - 140
2-Hexanone	125	89.7		ug/L		72	65 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-568871/5
Matrix: Water
Analysis Batch: 568871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	92.9		ug/L		74	71 - 125
Acetone	125	97.1		ug/L		78	56 - 142
Benzene	25.0	26.7		ug/L		107	71 - 124
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	22.0		ug/L		88	61 - 132
Bromomethane	25.0	24.1		ug/L		96	55 - 144
Carbon disulfide	25.0	26.4		ug/L		105	59 - 134
Carbon tetrachloride	25.0	27.2		ug/L		109	72 - 134
Chlorobenzene	25.0	27.5		ug/L		110	80 - 120
Dibromochloromethane	25.0	24.2		ug/L		97	75 - 125
Chloroethane	25.0	25.3		ug/L		101	69 - 136
Chloroform	25.0	25.2		ug/L		101	73 - 127
Chloromethane	25.0	27.1		ug/L		108	68 - 124
cis-1,2-Dichloroethene	25.0	26.6		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124
Cyclohexane	25.0	28.5		ug/L		114	59 - 135
Dichlorodifluoromethane	25.0	25.4		ug/L		101	59 - 135
Ethylbenzene	25.0	27.7		ug/L		111	77 - 123
1,2-Dibromoethane	25.0	23.5		ug/L		94	77 - 120
Isopropylbenzene	25.0	27.4		ug/L		110	77 - 122
Methyl acetate	50.0	40.0		ug/L		80	74 - 133
Methyl tert-butyl ether	25.0	24.6		ug/L		98	77 - 120
Methylcyclohexane	25.0	28.9		ug/L		116	68 - 134
Methylene Chloride	25.0	27.8		ug/L		111	75 - 124
Styrene	25.0	27.7		ug/L		111	80 - 120
Tetrachloroethene	25.0	27.8		ug/L		111	74 - 122
Toluene	25.0	27.5		ug/L		110	80 - 122
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	73 - 127
trans-1,3-Dichloropropene	25.0	24.5		ug/L		98	80 - 120
Trichloroethene	25.0	26.6		ug/L		106	74 - 123
Trichlorofluoromethane	25.0	27.8		ug/L		111	62 - 150
Vinyl chloride	25.0	27.5		ug/L		110	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 480-568876/1-A
Matrix: Waste
Analysis Batch: 568881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		1.1	0.28	mg/Kg		02/10/21 07:41	02/10/21 08:43	1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 480-568876/1-A
Matrix: Waste
Analysis Batch: 568881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568876

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		46 - 156	02/10/21 07:41	02/10/21 08:43	1

Lab Sample ID: LCS 480-568876/2-A
Matrix: Waste
Analysis Batch: 568881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568876

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			9.86	9.53		mg/Kg		97	64 - 129		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	87		46 - 156

Lab Sample ID: LCSD 480-568876/3-A
Matrix: Waste
Analysis Batch: 568881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 568876

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			9.63	8.75		mg/Kg		91	64 - 129	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	90		46 - 156

Lab Sample ID: MB 480-569072/5
Matrix: Water
Analysis Batch: 569072

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		25	4.2	ug/L			02/11/21 09:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		72 - 125		02/11/21 09:43	1

Lab Sample ID: LCS 480-569072/6
Matrix: Water
Analysis Batch: 569072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C6-C10)			200	164		ug/L		82	66 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	98		72 - 125

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCSD 480-569072/7
Matrix: Water
Analysis Batch: 569072

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)			200	166		ug/L		83	66 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*72 - 125*

Method: 310.13 - Identification of Routine Petroleum Products

Lab Sample ID: MB 480-568732/1-A
Matrix: Waste
Analysis Batch: 568761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		200	200	mg/Kg		02/09/21 07:10	02/09/21 13:10	1
Kerosene	ND		500	500	mg/Kg		02/09/21 07:10	02/09/21 13:10	1
Motor Oil	ND		1000	1000	mg/Kg		02/09/21 07:10	02/09/21 13:10	1
Fuel Oil #2	ND		500	500	mg/Kg		02/09/21 07:10	02/09/21 13:10	1
Fuel Oil #4	ND		500	500	mg/Kg		02/09/21 07:10	02/09/21 13:10	1
Fuel Oil #6	ND		500	500	mg/Kg		02/09/21 07:10	02/09/21 13:10	1
Unknown Hydrocarbons	ND		200	200	mg/Kg		02/09/21 07:10	02/09/21 13:10	1

Lab Sample ID: LCS 480-568732/2-A
Matrix: Waste
Analysis Batch: 568761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568732

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fuel Oil #2			15000	14700		mg/Kg		98	50 - 150		

Lab Sample ID: LCSD 480-568732/3-A
Matrix: Waste
Analysis Batch: 568761

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 568732

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fuel Oil #2			15000	14400		mg/Kg		96	50 - 150	2	50

Lab Sample ID: MB 480-568832/1-A
Matrix: Water
Analysis Batch: 568877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.20	0.20	mg/L		02/09/21 15:11	02/10/21 08:30	1
Kerosene	ND		0.50	0.50	mg/L		02/09/21 15:11	02/10/21 08:30	1
Motor Oil	ND		1.0	1.0	mg/L		02/09/21 15:11	02/10/21 08:30	1
Fuel Oil #2	ND		0.50	0.50	mg/L		02/09/21 15:11	02/10/21 08:30	1
Fuel Oil #4	ND		0.50	0.50	mg/L		02/09/21 15:11	02/10/21 08:30	1
Fuel Oil #6	ND		0.50	0.50	mg/L		02/09/21 15:11	02/10/21 08:30	1
Unknown Hydrocarbons	ND		0.20	0.20	mg/L		02/09/21 15:11	02/10/21 08:30	1

Method: 310.13 - Identification of Routine Petroleum Products (Continued)

Lab Sample ID: LCS 480-568832/2-A
Matrix: Water
Analysis Batch: 568877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568832

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fuel Oil #2			6.00	4.75		mg/L		79	50 - 150		

Lab Sample ID: LCSD 480-568832/3-A
Matrix: Water
Analysis Batch: 568877

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 568832

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fuel Oil #2			6.00	4.76		mg/L		79	50 - 150	0	50

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-568732/1-A
Matrix: Waste
Analysis Batch: 568762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5000	1500	mg/Kg		02/09/21 07:10	02/09/21 13:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*48 - 125*	*02/09/21 07:10*	*02/09/21 13:10*	*1*

Lab Sample ID: LCS 480-568732/2-A
Matrix: Waste
Analysis Batch: 568762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568732

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			15000	14700		mg/Kg		98	63 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*101*		*48 - 125*

Lab Sample ID: LCSD 480-568732/3-A
Matrix: Waste
Analysis Batch: 568762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 568732

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			15000	14400		mg/Kg		96	63 - 127	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*97*		*48 - 125*

Lab Sample ID: MB 480-568832/1-A
Matrix: Water
Analysis Batch: 568878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.50	0.31	mg/L		02/09/21 15:11	02/10/21 08:30	1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		51 - 120	02/09/21 15:11	02/10/21 08:30	1

Lab Sample ID: LCS 480-568832/2-A
Matrix: Water
Analysis Batch: 568878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568832

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			6.00	4.75		mg/L		79	57 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	80		51 - 120

Lab Sample ID: LCSD 480-568832/3-A
Matrix: Water
Analysis Batch: 568878

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 568832

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			6.00	4.77		mg/L		79	57 - 120	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	79		51 - 120

QC Association Summary

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

GC/MS VOA

Prep Batch: 568763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-2	401075-20210204-NORTH TANK	Total/NA	Waste	5035A_H	
MB 480-568763/2-A	Method Blank	Total/NA	Waste	5035A_H	
LCS 480-568763/1-A	Lab Control Sample	Total/NA	Waste	5035A_H	

Analysis Batch: 568871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-2	401075-20210204-NORTH TANK	Total/NA	Waste	8260C	568763
480-180928-3	401075-20210203-SOUTH TANK	Total/NA	Water	8260C	
MB 480-568763/2-A	Method Blank	Total/NA	Waste	8260C	568763
MB 480-568871/8	Method Blank	Total/NA	Water	8260C	
LCS 480-568763/1-A	Lab Control Sample	Total/NA	Waste	8260C	568763
LCS 480-568871/5	Lab Control Sample	Total/NA	Water	8260C	

GC VOA

Prep Batch: 568876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-2	401075-20210204-NORTH TANK	Total/NA	Waste	5035A_H	
MB 480-568876/1-A	Method Blank	Total/NA	Waste	5035A_H	
LCS 480-568876/2-A	Lab Control Sample	Total/NA	Waste	5035A_H	
LCSD 480-568876/3-A	Lab Control Sample Dup	Total/NA	Waste	5035A_H	

Analysis Batch: 568881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-2	401075-20210204-NORTH TANK	Total/NA	Waste	8015D	568876
MB 480-568876/1-A	Method Blank	Total/NA	Waste	8015D	568876
LCS 480-568876/2-A	Lab Control Sample	Total/NA	Waste	8015D	568876
LCSD 480-568876/3-A	Lab Control Sample Dup	Total/NA	Waste	8015D	568876

Analysis Batch: 569072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-3	401075-20210203-SOUTH TANK	Total/NA	Water	8015D	
MB 480-569072/5	Method Blank	Total/NA	Water	8015D	
LCS 480-569072/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 480-569072/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 568732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-2	401075-20210204-NORTH TANK	Total/NA	Waste	3580A	
MB 480-568732/1-A	Method Blank	Total/NA	Waste	3580A	
LCS 480-568732/2-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 480-568732/3-A	Lab Control Sample Dup	Total/NA	Waste	3580A	

Analysis Batch: 568761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-2	401075-20210204-NORTH TANK	Total/NA	Waste	310.13	568732
MB 480-568732/1-A	Method Blank	Total/NA	Waste	310.13	568732
LCS 480-568732/2-A	Lab Control Sample	Total/NA	Waste	310.13	568732
LCSD 480-568732/3-A	Lab Control Sample Dup	Total/NA	Waste	310.13	568732

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

GC Semi VOA

Analysis Batch: 568762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-2	401075-20210204-NORTH TANK	Total/NA	Waste	8015D	568732
MB 480-568732/1-A	Method Blank	Total/NA	Waste	8015D	568732
LCS 480-568732/2-A	Lab Control Sample	Total/NA	Waste	8015D	568732
LCSD 480-568732/3-A	Lab Control Sample Dup	Total/NA	Waste	8015D	568732

Prep Batch: 568832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-3	401075-20210203-SOUTH TANK	Total/NA	Water	3510C	
MB 480-568832/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-568832/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-568832/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 568877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-3	401075-20210203-SOUTH TANK	Total/NA	Water	310.13	568832
MB 480-568832/1-A	Method Blank	Total/NA	Water	310.13	568832
LCS 480-568832/2-A	Lab Control Sample	Total/NA	Water	310.13	568832
LCSD 480-568832/3-A	Lab Control Sample Dup	Total/NA	Water	310.13	568832

Analysis Batch: 568878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180928-3	401075-20210203-SOUTH TANK	Total/NA	Water	8015D	568832
MB 480-568832/1-A	Method Blank	Total/NA	Water	8015D	568832
LCS 480-568832/2-A	Lab Control Sample	Total/NA	Water	8015D	568832
LCSD 480-568832/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	568832

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: 401075-20210204-NORTH TANK
Lab Sample ID: 480-180928-2

Date Collected: 02/04/21 10:00
Matrix: Waste
Date Received: 02/05/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			568763	02/09/21 08:55	AMM	TAL BUF
Total/NA	Analysis	8260C		400	568871	02/10/21 12:40	AMM	TAL BUF
Total/NA	Prep	5035A_H			568876	02/10/21 07:41	JLS	TAL BUF
Total/NA	Analysis	8015D		2000	568881	02/10/21 12:09	JLS	TAL BUF
Total/NA	Prep	3580A			568732	02/09/21 07:10	SMP	TAL BUF
Total/NA	Analysis	310.13		50	568761	02/09/21 12:35	MAN	TAL BUF
Total/NA	Prep	3580A			568732	02/09/21 07:10	SMP	TAL BUF
Total/NA	Analysis	8015D		50	568762	02/09/21 12:35	MAN	TAL BUF

Client Sample ID: 401075-20210203-SOUTH TANK
Lab Sample ID: 480-180928-3

Date Collected: 02/03/21 12:30
Matrix: Water
Date Received: 02/05/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		400	568871	02/10/21 12:17	AMM	TAL BUF
Total/NA	Analysis	8015D		500	569072	02/11/21 12:50	JLS	TAL BUF
Total/NA	Prep	3510C			568832	02/09/21 15:11	ATG	TAL BUF
Total/NA	Analysis	310.13		5	568877	02/10/21 12:36	MAN	TAL BUF
Total/NA	Prep	3510C			568832	02/09/21 15:11	ATG	TAL BUF
Total/NA	Analysis	8015D		5	568878	02/10/21 12:36	MAN	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
310.13	3510C	Water	Fuel Oil #2
310.13	3510C	Water	Fuel Oil #4
310.13	3510C	Water	Fuel Oil #6
310.13	3510C	Water	Gasoline
310.13	3510C	Water	Kerosene
310.13	3510C	Water	Motor Oil
310.13	3510C	Water	Unknown Hydrocarbons
310.13	3580A	Waste	Fuel Oil #2
310.13	3580A	Waste	Fuel Oil #4
310.13	3580A	Waste	Fuel Oil #6
310.13	3580A	Waste	Gasoline
310.13	3580A	Waste	Kerosene
310.13	3580A	Waste	Motor Oil
310.13	3580A	Waste	Unknown Hydrocarbons

Method Summary

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
310.13	Identification of Routine Petroleum Products	NYASP	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3580A	Waste Dilution	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

NYASP = New York Analytical Services Protocol

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Job ID: 480-180928-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180928-2	401075-20210204-NORTH TANK	Waste	02/04/21 10:00	02/05/21 09:30	
480-180928-3	401075-20210203-SOUTH TANK	Water	02/03/21 12:30	02/05/21 09:30	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

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Client Information	Sampler: CHRIS SCHROER	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-156537-34521.2
Client Contact: Ms. Emily Cummings	Phone: (315)569 8308	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: NY	Page: ~~Page 2 of 2~~ 1 OF 1
Company: EA Engineering, Science, and Technology	PWSID:			Job #:
Address: 269 West Jefferson St. Suite 104	Due Date Requested:			
City: Syracuse	TAT Requested (days): RUSH 24 HRS			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 518-402-9814(Tel)	PO #: CallOut ID: 139441			
Email: ecummings@eaest.com	WO #:			
Project Name: Admiral Cleaners UST #2005615 PIN 08972	Project #: 48023210			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - Di Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - SVOA	8260C - VOA	2 FINGERPRINT 250 mL Amber	TPH 250mL Amber	VOCs by 8260C	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	2	N	A		
401075-20210203-SOUTH TANK	2/03/21	1230	G	~~Solid~~ LIQ					X	X	X	5	SUSPECTED NAPL * Petroleum Solvent * HOT * 2 x 250mL Amber 3 x 40 mL VOA (HCl)
401075-20210204-NORTH TANK	2/04/21	1000	G	LIQ					X	X	X	5	

480-180928 Chain of Custody

2-4-2021

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2/04/2021	EA		2/4/21	NYSDEC
2		2/4/2021 1541	PEC		2-4-2021 1541	EEA
3	Tim Knollman	2-4-2021 1700		Cwallace	2/5/21 0930	TAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 2.7

Ver: 11/01/2020

2/11/2021

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-180928-1

Login Number: 180928

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-180983-1
Client Project/Site: Admiral Cleaners UST #2005615 PIN 08972

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Josh Haugh

Authorized for release by:
2/12/2021 11:44:33 AM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Wyatt Watson
Project Management Assistant I
2/12/2021 11:44:33 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-180983-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-180983-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-180983-1

Comments
No additional comments.

Receipt
The samples were received on 2/9/2021 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6º C.

GC/MS VOA
Method 8260C: The following samples were diluted due to the nature of the TCLP matrix: SOUTH TK BOT (480-180983-2) and (LB 480-568806/1-A). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: DRY CLEAN TK BOT (480-180983-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: DRY CLEAN TK BOT (480-180983-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: SOUTH TK BOT (480-180983-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-568852 and analytical batch 480-569065 recovered outside control limits for the following analyte: 4-Methyl-2-pentanone (MIBK). 4-Methyl-2-pentanone (MIBK) has been identified as a poor performing analyte when analyzed using this method; therefore, re-analysis was not performed. The following samples are affected:DRY CLEAN TK BOT (480-180983-1) and SOUTH TK BOT (480-180983-2).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-569065 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCVIS were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: DRY CLEAN TK BOT (480-180983-1) and SOUTH TK BOT (480-180983-2).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-569065 recovered outside acceptance criteria, low biased, for 2-Hexanone, 4-Methyl-2-pentanone (MIBK) and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The associated samples are: DRY CLEAN TK BOT (480-180983-1) and SOUTH TK BOT (480-180983-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: New York State D.E.C.
Job ID: 480-180983-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: DRY CLEAN TK BOT
Lab Sample ID: 480-180983-1
Date Collected: 02/04/21 13:35
Matrix: Solid
Date Received: 02/09/21 09:30
Percent Solids: 66.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		7100	2000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,1,2,2-Tetrachloroethane	ND		7100	1200	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,1,2-Trichloroethane	ND		7100	1500	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7100	3500	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,1-Dichloroethane	ND		7100	2200	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,1-Dichloroethene	ND		7100	2500	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,2,4-Trichlorobenzene	ND		7100	2700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,2-Dibromo-3-Chloropropane	**29000**		7100	3500	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,2-Dichlorobenzene	ND		7100	1800	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,2-Dichloroethane	ND		7100	2900	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,2-Dichloropropane	ND		7100	1100	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,3-Dichlorobenzene	ND		7100	1900	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,4-Dichlorobenzene	ND		7100	990	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
2-Butanone (MEK)	ND		35000	21000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
2-Hexanone	ND		35000	15000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
4-Methyl-2-pentanone (MIBK)	ND	*-	35000	2300	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Acetone	ND		35000	29000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Benzene	ND		7100	1300	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Bromodichloromethane	ND		7100	1400	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Bromoform	ND		7100	3500	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Bromomethane	ND		7100	1600	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Carbon disulfide	ND		7100	3200	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Carbon tetrachloride	ND		7100	1800	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Chlorobenzene	ND		7100	930	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Dibromochloromethane	ND		7100	3400	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Chloroethane	ND		7100	1500	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Chloroform	ND		7100	4900	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Chloromethane	ND		7100	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
cis-1,2-Dichloroethene	**15000**		7100	2000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
cis-1,3-Dichloropropene	ND		7100	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Cyclohexane	ND		7100	1600	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Dichlorodifluoromethane	ND		7100	3100	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Ethylbenzene	**62000**		7100	2100	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
1,2-Dibromoethane	ND		7100	1200	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Isopropylbenzene	**79000**		7100	1100	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Methyl acetate	ND		35000	3400	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Methyl tert-butyl ether	ND		7100	2700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Methylcyclohexane	ND		7100	3300	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Methylene Chloride	ND		7100	1400	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Styrene	ND		7100	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Tetrachloroethene	**190000**		7100	950	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Toluene	ND		7100	1900	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
trans-1,2-Dichloroethene	ND		7100	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
trans-1,3-Dichloropropene	ND		7100	700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Trichloroethene	**3200**	**J**	7100	2000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Trichlorofluoromethane	ND		7100	3300	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Vinyl chloride	ND		7100	2400	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40
Xylenes, Total	**190000**		14000	3900	ug/Kg	☼	02/09/21 21:00	02/11/21 11:32	40

Client Sample ID: DRY CLEAN TK BOT
Lab Sample ID: 480-180983-1

Date Collected: 02/04/21 13:35
Matrix: Solid
Date Received: 02/09/21 09:30
Percent Solids: 66.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*50 - 149*	*02/09/21 21:00*	*02/11/21 11:32*	*40*
1,2-Dichloroethane-d4 (Surr)	*98*		*53 - 146*	*02/09/21 21:00*	*02/11/21 11:32*	*40*
4-Bromofluorobenzene (Surr)	*93*		*49 - 148*	*02/09/21 21:00*	*02/11/21 11:32*	*40*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*02/09/21 21:00*	*02/11/21 11:32*	*40*

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/10/21 15:02	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/10/21 15:02	10
Benzene	ND		0.010	0.0041	mg/L			02/10/21 15:02	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/10/21 15:02	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/10/21 15:02	10
Chloroform	ND		0.010	0.0034	mg/L			02/10/21 15:02	10
Tetrachloroethene	**0.44**		0.010	0.0036	mg/L			02/10/21 15:02	10
Trichloroethene	**0.021**		0.010	0.0046	mg/L			02/10/21 15:02	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/10/21 15:02	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/10/21 15:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*02/10/21 15:02*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*02/10/21 15:02*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/10/21 15:02*	*10*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*02/10/21 15:02*	*10*

Client Sample ID: SOUTH TK BOT
Lab Sample ID: 480-180983-2

Date Collected: 02/04/21 13:45
Matrix: Solid
Date Received: 02/09/21 09:30
Percent Solids: 65.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3500	960	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,1,2,2-Tetrachloroethane	ND		3500	560	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,1,2-Trichloroethane	ND		3500	730	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3500	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,1-Dichloroethane	ND		3500	1100	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,1-Dichloroethene	ND		3500	1200	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,2,4-Trichlorobenzene	ND		3500	1300	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,2-Dibromo-3-Chloropropane	ND		3500	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,2-Dichlorobenzene	ND		3500	880	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,2-Dichloroethane	ND		3500	1400	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,2-Dichloropropane	ND		3500	560	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,3-Dichlorobenzene	ND		3500	930	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,4-Dichlorobenzene	ND		3500	490	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
2-Butanone (MEK)	ND		17000	10000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
2-Hexanone	ND		17000	7100	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
4-Methyl-2-pentanone (MIBK)	ND	*-	17000	1100	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Acetone	ND		17000	14000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Benzene	ND		3500	660	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Bromodichloromethane	ND		3500	690	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Bromoform	ND		3500	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Bromomethane	ND		3500	760	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20

Client Sample ID: SOUTH TK BOT
Lab Sample ID: 480-180983-2
Date Collected: 02/04/21 13:45
Matrix: Solid
Date Received: 02/09/21 09:30
Percent Solids: 65.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		3500	1600	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Carbon tetrachloride	ND		3500	880	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Chlorobenzene	ND		3500	460	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Dibromochloromethane	ND		3500	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Chloroethane	ND		3500	720	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Chloroform	ND		3500	2400	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Chloromethane	ND		3500	830	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
cis-1,2-Dichloroethene	**3200**	**J**	3500	960	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
cis-1,3-Dichloropropene	ND		3500	830	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Cyclohexane	ND		3500	770	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Dichlorodifluoromethane	ND		3500	1500	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Ethylbenzene	ND		3500	1000	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
1,2-Dibromoethane	ND		3500	610	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Isopropylbenzene	ND		3500	520	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Methyl acetate	ND		17000	1700	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Methyl tert-butyl ether	ND		3500	1300	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Methylcyclohexane	**2800**	**J**	3500	1600	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Methylene Chloride	**700**	**J**	3500	690	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Styrene	ND		3500	840	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Tetrachloroethene	ND		3500	470	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Toluene	ND		3500	930	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
trans-1,2-Dichloroethene	ND		3500	820	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
trans-1,3-Dichloropropene	ND		3500	340	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Trichloroethene	ND		3500	960	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Trichlorofluoromethane	ND		3500	1600	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Vinyl chloride	ND		3500	1200	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20
Xylenes, Total	ND		6900	1900	ug/Kg	☼	02/09/21 21:00	02/11/21 11:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*50 - 149*	*02/09/21 21:00*	*02/11/21 11:55*	*20*
1,2-Dichloroethane-d4 (Surr)	*99*		*53 - 146*	*02/09/21 21:00*	*02/11/21 11:55*	*20*
4-Bromofluorobenzene (Surr)	*98*		*49 - 148*	*02/09/21 21:00*	*02/11/21 11:55*	*20*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*02/09/21 21:00*	*02/11/21 11:55*	*20*

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/10/21 15:26	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/10/21 15:26	10
Benzene	ND		0.010	0.0041	mg/L			02/10/21 15:26	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/10/21 15:26	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/10/21 15:26	10
Chloroform	ND		0.010	0.0034	mg/L			02/10/21 15:26	10
Tetrachloroethene	**0.014**		0.010	0.0036	mg/L			02/10/21 15:26	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/10/21 15:26	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/10/21 15:26	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/10/21 15:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/10/21 15:26*	*10*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*02/10/21 15:26*	*10*

Client: New York State D.E.C.
Job ID: 480-180983-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: SOUTH TK BOT
Lab Sample ID: 480-180983-2
Date Collected: 02/04/21 13:45
Matrix: Solid
Date Received: 02/09/21 09:30
Percent Solids: 65.9

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		02/10/21 15:26	10
Dibromofluoromethane (Surr)	103		75 - 123		02/10/21 15:26	10

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-180983-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Client Sample ID: DRY CLEAN TK BOT
Lab Sample ID: 480-180983-1
Date Collected: 02/04/21 13:35
Matrix: Solid
Date Received: 02/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			568806	02/09/21 13:09	LMS	TAL BUF
TCLP	Analysis	8260C		10	568928	02/10/21 15:02	RJF	TAL BUF
Total/NA	Analysis	Moisture		1	569205	02/11/21 15:05	WJD	TAL BUF

Client Sample ID: DRY CLEAN TK BOT
Lab Sample ID: 480-180983-1
Date Collected: 02/04/21 13:35
Matrix: Solid
Date Received: 02/09/21 09:30
Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			568852	02/09/21 21:00	CDC	TAL BUF
Total/NA	Analysis	8260C		40	569065	02/11/21 11:32	AMM	TAL BUF

Client Sample ID: SOUTH TK BOT
Lab Sample ID: 480-180983-2
Date Collected: 02/04/21 13:45
Matrix: Solid
Date Received: 02/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			568806	02/09/21 13:09	LMS	TAL BUF
TCLP	Analysis	8260C		10	568928	02/10/21 15:26	RJF	TAL BUF
Total/NA	Analysis	Moisture		1	569205	02/11/21 15:05	WJD	TAL BUF

Client Sample ID: SOUTH TK BOT
Lab Sample ID: 480-180983-2
Date Collected: 02/04/21 13:45
Matrix: Solid
Date Received: 02/09/21 09:30
Percent Solids: 65.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			568852	02/09/21 21:00	CDC	TAL BUF
Total/NA	Analysis	8260C		20	569065	02/11/21 11:55	AMM	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-180983-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: New York State D.E.C.
Job ID: 480-180983-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
1311	TCLP Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Job ID: 480-180983-1
Project/Site: Admiral Cleaners UST #2005615 PIN 08972

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180983-1	DRY CLEAN TK BOT	Solid	02/04/21 13:35	02/09/21 09:30	
480-180983-2	SOUTH TK BOT	Solid	02/04/21 13:45	02/09/21 09:30	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-180983-1

Login Number: 180983 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	pes
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Albany #224

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Client Information	Sampler: Brian Neumann	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No:
Client Contact: Brian Neumann	Phone: 518-885-4399	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: Precision Environmental Services Inc.				Job #:

Address: 831 State Route 67 Ste 38	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Ballston Spa	TAT Requested (days): 72 hours		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3
State, Zip: NY, 12020			
Phone: 518-885-4399	PO #: CallOut ID: 139442		
Email: bneumann@pesnyinc.com	WO #:		
Project Name: Admiral Cleaners, Spill No. **2005615**, PIN No. 08972	Project #:		
Site: 617 19th Street, Watervliet, NY	SSOW#:		

480-180983 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260 TCL	8260 TCLP	Total Number	Special Instructions/Note:
			Preservation Code:				N	N		
Dry Clean Tk Bot	2/4/21	1335	G	S			X	X	2	Must be included in both analysis: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane,1,1,2-trichloroethane, carbon tetrachloride
South Tk Bot	2/4/21	1345	G	S			X	X	2	Please hold as much sample as possible for future shipping to another lab.

2-8-2021

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify) PES service center drop off

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/8/21 @ 1600	Company PES	Received by:	Date/Time: 2-8-2021 1600	Company EETA
Relinquished by:	Date/Time: 2-8-2021 1700	Company EETA	Received by:	Date/Time: 2/9/21 0930	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.6

Ver: 01/16/2019

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-224106-1
Client Project/Site: Admiral Cleaners #401075

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Josh Haugh

Judy Stone

Authorized for release by:
12/9/2020 4:46:17 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Judy Stone
Senior Project Manager
12/9/2020 4:46:17 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 460-224106-1
Project/Site: Admiral Cleaners #401075

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-224106-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-224106-1

Receipt
The samples were received on 12/5/2020 11:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1º C.

GC/MS VOA
Method 8260D: Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Concrete Debris #1 (460-224106-1). These results have been reported and qualified.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 460-745193 was outside the method criteria for the following analytes: Chloromethane (biased high) and Trichlorofluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following sample was diluted to bring the concentration of target analytes within the calibration range: Concrete Debris #2 (460-224106-2) at 2.0. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 460-224106-1

Client Sample ID: Concrete Debris 1
Date Collected: 12/04/20 13:00
Date Received: 12/05/20 11:00

Lab Sample ID: 460-224106-1
Matrix: Solid
Percent Solids: 97.0

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.23	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.32	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,1,2-Trichloroethane	ND		1.1	0.19	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,1-Dichloroethane	ND		1.1	0.22	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,1-Dichloroethene	ND		1.1	0.24	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,2,4-Trichlorobenzene	ND		1.1	0.38	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.49	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,2-Dichlorobenzene	ND		1.1	0.38	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,2-Dichloroethane	ND		1.1	0.31	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,2-Dichloropropane	ND		1.1	0.45	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,3-Dichlorobenzene	ND		1.1	0.39	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
1,4-Dichlorobenzene	ND		1.1	0.24	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
2-Butanone (MEK)	**3.4**	**J**	5.3	0.39	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
2-Hexanone	ND		5.3	1.8	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.3	1.6	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Acetone	**120**		6.4	6.1	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Benzene	ND		1.1	0.27	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Bromoform	ND		1.1	0.45	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Bromomethane	ND		1.1	1.1	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Carbon disulfide	**1.4**		1.1	0.28	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Carbon tetrachloride	ND		1.1	0.41	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Chlorobenzene	ND		1.1	0.19	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Chlorodibromomethane	ND		1.1	0.21	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Chloroethane	ND		1.1	0.55	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Chloroform	ND		1.1	1.0	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Chloromethane	ND		1.1	0.46	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
cis-1,2-Dichloroethene	ND		1.1	0.38	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
cis-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Cyclohexane	ND		1.1	0.23	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Dichlorobromomethane	ND		1.1	0.27	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Dichlorodifluoromethane	ND		1.1	0.36	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Ethylbenzene	**0.48**	**J B**	1.1	0.21	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Ethylene Dibromide	ND		1.1	0.19	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Isopropylbenzene	ND		1.1	0.30	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Methyl acetate	ND		5.3	4.6	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Methyl tert-butyl ether	ND		1.1	0.54	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Methylcyclohexane	ND		1.1	0.53	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Methylene Chloride	ND		1.1	1.2	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Styrene	ND		1.1	0.29	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Tetrachloroethene	**1.0**	**J**	1.1	0.32	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Toluene	**0.96**	**J B**	1.1	0.25	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
trans-1,2-Dichloroethene	ND		1.1	0.26	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
trans-1,3-Dichloropropene	ND		1.1	0.28	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Trichloroethene	ND		1.1	0.34	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Trichlorofluoromethane	ND		1.1	0.43	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Vinyl chloride	ND		1.1	0.58	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1
Xylenes, Total	**2.2**	**B**	2.1	0.68	ug/Kg	☼	12/07/20 22:36	12/08/20 10:03	1

Client Sample ID: Concrete Debris 1

Lab Sample ID: 460-224106-1
Date Collected: 12/04/20 13:00
Matrix: Solid
Date Received: 12/05/20 11:00
Percent Solids: 97.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*137*		*77 - 145*	*12/07/20 22:36*	*12/08/20 10:03*	*1*
4-Bromofluorobenzene	*99*		*79 - 125*	*12/07/20 22:36*	*12/08/20 10:03*	*1*
Dibromofluoromethane (Surr)	*30*	*X*	*48 - 150*	*12/07/20 22:36*	*12/08/20 10:03*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*	*12/07/20 22:36*	*12/08/20 10:03*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	ND		2200	2200	ug/Kg	☼	12/07/20 23:55	12/08/20 08:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*73 - 150*	*12/07/20 23:55*	*12/08/20 08:27*	*50*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**28**		6.9	0.87	mg/Kg	☼	12/08/20 09:46	12/09/20 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*116*		*10 - 150*	*12/08/20 09:46*	*12/09/20 12:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.0**		1.0	1.0	%			12/07/20 17:49	1
Percent Solids	**97.0**		1.0	1.0	%			12/07/20 17:49	1

Client Sample ID: Concrete Debris 2

Lab Sample ID: 460-224106-2
Date Collected: 12/04/20 13:00
Matrix: Solid
Date Received: 12/05/20 11:00
Percent Solids: 96.5

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.87	0.20	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,1,2,2-Tetrachloroethane	ND		0.87	0.19	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.87	0.26	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,1,2-Trichloroethane	ND		0.87	0.15	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,1-Dichloroethane	ND		0.87	0.18	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,1-Dichloroethene	ND		0.87	0.19	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,2,4-Trichlorobenzene	ND		0.87	0.31	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,2-Dibromo-3-Chloropropane	ND		0.87	0.40	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,2-Dichlorobenzene	ND		0.87	0.31	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,2-Dichloroethane	ND		0.87	0.26	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,2-Dichloropropane	ND		0.87	0.37	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,3-Dichlorobenzene	ND		0.87	0.32	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
1,4-Dichlorobenzene	**0.20**	**J**	0.87	0.19	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
2-Butanone (MEK)	**7.5**		4.3	0.32	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
2-Hexanone	ND		4.3	1.5	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
4-Methyl-2-pentanone (MIBK)	**1.4**	**J**	4.3	1.3	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Acetone	**1000**		5.2	5.0	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Benzene	ND		0.87	0.22	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Bromoform	ND		0.87	0.37	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Bromomethane	ND		0.87	0.87	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Carbon disulfide	ND		0.87	0.23	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Carbon tetrachloride	ND		0.87	0.34	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1

Client Sample ID: Concrete Debris 2
Lab Sample ID: 460-224106-2

Date Collected: 12/04/20 13:00
Matrix: Solid
Date Received: 12/05/20 11:00
Percent Solids: 96.5

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.87	0.15	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Chlorodibromomethane	ND		0.87	0.17	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Chloroethane	ND		0.87	0.45	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Chloroform	ND		0.87	0.84	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Chloromethane	ND		0.87	0.38	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
cis-1,2-Dichloroethene	ND		0.87	0.31	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
cis-1,3-Dichloropropene	ND		0.87	0.24	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Cyclohexane	ND		0.87	0.19	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Dichlorobromomethane	ND		0.87	0.22	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Dichlorodifluoromethane	ND		0.87	0.29	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Ethylbenzene	**0.43**	**J B**	0.87	0.17	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Ethylene Dibromide	ND		0.87	0.16	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Isopropylbenzene	ND		0.87	0.25	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Methyl acetate	ND		4.3	3.7	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Methyl tert-butyl ether	ND		0.87	0.44	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Methylcyclohexane	ND		0.87	0.43	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Methylene Chloride	ND		0.87	0.99	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Styrene	ND		0.87	0.24	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Tetrachloroethene	**140**		0.87	0.26	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Toluene	**0.99**	**B**	0.87	0.20	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
trans-1,2-Dichloroethene	ND		0.87	0.21	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
trans-1,3-Dichloropropene	ND		0.87	0.23	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Trichloroethene	**0.77**	**J**	0.87	0.28	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Trichlorofluoromethane	ND		0.87	0.35	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Vinyl chloride	ND		0.87	0.47	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1
Xylenes, Total	**2.0**	**B**	1.7	0.56	ug/Kg	☼	12/07/20 22:37	12/08/20 10:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*77 - 145*	*12/07/20 22:37*	*12/08/20 10:27*	*1*
4-Bromofluorobenzene	*102*		*79 - 125*	*12/07/20 22:37*	*12/08/20 10:27*	*1*
Dibromofluoromethane (Surr)	*100*		*48 - 150*	*12/07/20 22:37*	*12/08/20 10:27*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*	*12/07/20 22:37*	*12/08/20 10:27*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	ND		2600	2600	ug/Kg	☼	12/07/20 23:55	12/08/20 08:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*73 - 150*	*12/07/20 23:55*	*12/08/20 08:56*	*50*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**360**		14	1.7	mg/Kg	☼	12/08/20 09:46	12/09/20 13:27	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*120*		*10 - 150*	*12/08/20 09:46*	*12/09/20 13:27*	*2*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.5**		1.0	1.0	%			12/07/20 17:49	1
Percent Solids	**96.5**		1.0	1.0	%			12/07/20 17:49	1

Lab Chronicle

Client: New York State D.E.C.
Job ID: 460-224106-1
Project/Site: Admiral Cleaners #401075

Client Sample ID: Concrete Debris 1
Lab Sample ID: 460-224106-1
Date Collected: 12/04/20 13:00
Matrix: Solid
Date Received: 12/05/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	745123	12/07/20 17:49	MMC	TAL EDI

Client Sample ID: Concrete Debris 1
Lab Sample ID: 460-224106-1
Date Collected: 12/04/20 13:00
Matrix: Solid
Date Received: 12/05/20 11:00
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			745166	12/07/20 22:36	AVM	TAL EDI
Total/NA	Analysis	8260D		1	745193	12/08/20 10:03	AAT	TAL EDI
Total/NA	Prep	5035			745174	12/07/20 23:55	AVM	TAL EDI
Total/NA	Analysis	8015D		50	745176	12/08/20 08:27	EMM	TAL EDI
Total/NA	Prep	3546			745264	12/08/20 09:46	OTS	TAL EDI
Total/NA	Analysis	8015D		1	745575	12/09/20 12:28	KMH	TAL EDI

Client Sample ID: Concrete Debris 2
Lab Sample ID: 460-224106-2
Date Collected: 12/04/20 13:00
Matrix: Solid
Date Received: 12/05/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	745123	12/07/20 17:49	MMC	TAL EDI

Client Sample ID: Concrete Debris 2
Lab Sample ID: 460-224106-2
Date Collected: 12/04/20 13:00
Matrix: Solid
Date Received: 12/05/20 11:00
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			745166	12/07/20 22:37	AVM	TAL EDI
Total/NA	Analysis	8260D		1	745193	12/08/20 10:27	AAT	TAL EDI
Total/NA	Prep	5035			745174	12/07/20 23:55	AVM	TAL EDI
Total/NA	Analysis	8015D		50	745176	12/08/20 08:56	EMM	TAL EDI
Total/NA	Prep	3546			745264	12/08/20 09:46	OTS	TAL EDI
Total/NA	Analysis	8015D		2	745575	12/09/20 13:27	KMH	TAL EDI

Laboratory References:
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 460-224106-1
Project/Site: Admiral Cleaners #401075

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 460-224106-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL EDI
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: New York State D.E.C.
Project/Site: Admiral Cleaners #401075

Job ID: 460-224106-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-224106-1	Concrete Debris 1	Solid	12/04/20 13:00	12/05/20 11:00	
460-224106-2	Concrete Debris 2	Solid	12/04/20 13:00	12/05/20 11:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Albany #224

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Brian Neumann	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No:
Client Contact: Brian Neumann	Phone: 518-441-1520	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: Precision Environmental Services Inc.				Job #: 224106
Address: 831 State Route 67 Ste 38	Due Date Requested:			
City: Ballston Spa	TAT Requested (days): ~~Standard~~ 3day			
State, Zip: NY, 12020				
Phone: 518-885-4399	PO #: CallOut ID: 139442			
Email: bneumann@pesnyinc.com	WO #:			
Project Name: Admiral Cleaners, Spill No. 2005615, PIN No. 08972	Project #:			
Site: 617 19th Street, Watervliet, NY	SSOW#:			

460-224106 Chain of Custody

ervation Codes:

ICL	M - Hexane
laOH	N - None
n Acetate	O - AsNaO2
litric Acid	P - Na2O4S
laHSO4	Q - Na2SO3
leOH	R - Na2S2O3
Amchlor	S - H2SO4
- Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260 Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
Concrete Debris #1			G	S			X	1	-1
Concrete Debris #2			G	S			X	1	-2

3-Day RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) PES service center drop off

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	12-4-20 1300	PES	Received by:	12/4/20 1400	Eurofins
Relinquished by:	12/4/20 1700	Eurofins	Received by: (FedEx)	12/5/20 1100	7601
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR114.1°C

Ver: 01/16/2019

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 224106

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.1 °C	4.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: AV Date: 12/5/20

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 460-224106-1

Login Number: 224106 **List Source: Eurofins TestAmerica, Edison**
List Number: 1
Creator: Lysy, Susan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

May 05, 2021 Service Request No:R2102458

Mr. Chris Schroer
EA Engineering, Science, and Technology
269 West Jefferson Street
Syracuse, NY 13202

Laboratory Results for: Admiral Cleaners

Dear Mr.Schroer,

Enclosed are the results of the sample(s) submitted to our laboratory March 17, 2021
For your reference, these analyses have been assigned our service request number **R2102458.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Emily Cummings

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners **Date Received:** 03/17/2021
Sample Matrix: Soil, Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Nine soil, water samples were received for analysis at ALS Environmental on 03/17/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 03/24/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. Precision is also outside limits. There were no detections of the analyte(s) in the associated field samples. The analytes affected are flagged in the LCS Summary.

Method 8270D, 03/24/2021: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample matrix. Precision is also outside limits. No further corrective action was required.

Method 8270D, R2102458-002,-004, -005, -006, -007: The control limits were exceeded for one or more surrogates. There was obvious interference with the surrogate peak.

Method 8270D, 03/25/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

General Chemistry:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 03/30/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 717924: Sample(s) required dilution due to the presence of non-target compounds at high concentrations. The reporting limits are adjusted to reflect the dilution.

Method 8260C, 03/30/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 03/30/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. Additional analysis of the associated field samples could not be performed

Approved by Meghan Pedro Date 05/05/2021

because the compounds were within acceptable limits in the LCSD. The analytes affected are flagged in the LCS Summary.

Method 8260C, 03/30/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 03/30/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 03/30/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 717686: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method 8260C, 03/27/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 03/26/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

5/5/2021 report was revised to update the report list as a request made from the client.

Approved by  Date 05/05/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: 401075-South Sidewall-8			Lab ID: R2102458-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.8				Percent	ALS SOP
Acetone	97		29	30	ug/Kg	8260C
Ethylbenzene	2.5	J	1.3	30	ug/Kg	8260C
Isopropylbenzene (Cumene)	16	J	1.3	30	ug/Kg	8260C
Tetrachloroethene (PCE)	14	J	1.4	30	ug/Kg	8260C
cis-1,2-Dichloroethene	5.6	J	1.3	30	ug/Kg	8260C
m,p-Xylenes	5.8	J	2.3	60	ug/Kg	8260C
o-Xylene	7.0	J	1.3	30	ug/Kg	8260C
2-Methylnaphthalene	550		4.1	14	ug/Kg	8270D
Acenaphthene	240		3.5	14	ug/Kg	8270D
Anthracene	130		8.6	14	ug/Kg	8270D
Biphenyl	300		18	70	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	94	BJ	64	1300	ug/Kg	8270D
Carbazole	36	J	30	70	ug/Kg	8270D
Fluorene	470		3.6	14	ug/Kg	8270D
Naphthalene	160		4.9	14	ug/Kg	8270D
Phenanthrene	1000		7.5	14	ug/Kg	8270D
Pyrene	23		6.8	14	ug/Kg	8270D

CLIENT ID: 401075-West Sidewall-8			Lab ID: R2102458-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	83.6				Percent	ALS SOP
2-Butanone (MEK)	13	J	12	30	ug/Kg	8260C
Acetone	140		29	30	ug/Kg	8260C
Isopropylbenzene (Cumene)	9.6	J	1.2	30	ug/Kg	8260C
Methylcyclohexane	2.4	J	1.9	30	ug/Kg	8260C
Tetrachloroethene (PCE)	230		1.4	30	ug/Kg	8260C
Trichloroethene (TCE)	9.1	J	1.4	30	ug/Kg	8260C
cis-1,2-Dichloroethene	60		1.2	30	ug/Kg	8260C
m,p-Xylenes	2.7	J	2.3	60	ug/Kg	8260C
o-Xylene	6.6	J	1.2	30	ug/Kg	8260C
2-Methylnaphthalene	360		3.7	13	ug/Kg	8270D
Acenaphthene	370		3.2	13	ug/Kg	8270D
Anthracene	160		7.8	13	ug/Kg	8270D
Biphenyl	380		16	63	ug/Kg	8270D
Carbazole	120		27	63	ug/Kg	8270D
Dibenzofuran	340		5.7	13	ug/Kg	8270D
Fluoranthene	12	J	9.5	13	ug/Kg	8270D
Fluorene	610		3.3	13	ug/Kg	8270D
Naphthalene	76		4.5	13	ug/Kg	8270D
Phenanthrene	1200		6.8	13	ug/Kg	8270D
Pyrene	29		6.2	13	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: 401075-West Sidewall-8			Lab ID: R2102458-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**

CLIENT ID: 401075-FD-031621			Lab ID: R2102458-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	83.6				Percent	ALS SOP
2-Butanone (MEK)	510	BJ	320	800	ug/Kg	8260C
Chloroform	37	J	32	800	ug/Kg	8260C
Isopropylbenzene (Cumene)	49	J	32	800	ug/Kg	8260C
Methyl Acetate	340	BJ	140	800	ug/Kg	8260C
Tetrachloroethene (PCE)	3200		37	800	ug/Kg	8260C
Trichloroethene (TCE)	240	J	35	800	ug/Kg	8260C
cis-1,2-Dichloroethene	980		32	800	ug/Kg	8260C
2-Methylnaphthalene	130		4.3	15	ug/Kg	8270D
Acenaphthene	290		3.8	15	ug/Kg	8270D
Anthracene	110		9.1	15	ug/Kg	8270D
Biphenyl	320		19	74	ug/Kg	8270D
Carbazole	73	J	32	74	ug/Kg	8270D
Dibenzofuran	250		6.6	15	ug/Kg	8270D
Fluorene	450		3.9	15	ug/Kg	8270D
Naphthalene	38		5.2	15	ug/Kg	8270D
Phenanthrene	980		7.9	15	ug/Kg	8270D
Pyrene	18		7.3	15	ug/Kg	8270D

CLIENT ID: 401075-East Side Wall-8			Lab ID: R2102458-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	85.3				Percent	ALS SOP
Cyclohexane	350	J	170	3100	ug/Kg	8260C
Ethylbenzene	11000		130	3100	ug/Kg	8260C
Isopropylbenzene (Cumene)	14000		130	3100	ug/Kg	8260C
Methylcyclohexane	1300	J	200	3100	ug/Kg	8260C
Tetrachloroethene (PCE)	62000		150	3100	ug/Kg	8260C
Toluene	550	J	130	3100	ug/Kg	8260C
Trichloroethene (TCE)	2900	J	140	3100	ug/Kg	8260C
cis-1,2-Dichloroethene	4500		130	3100	ug/Kg	8260C
m,p-Xylenes	19000		230	6200	ug/Kg	8260C
o-Xylene	13000		130	3100	ug/Kg	8260C
2-Methylnaphthalene	82000	D	430	1500	ug/Kg	8270D
Acenaphthene	3400		37	150	ug/Kg	8270D
Acenaphthylene	740		41	150	ug/Kg	8270D
Anthracene	1200		91	150	ug/Kg	8270D
Biphenyl	3300		190	740	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	6600	J	680	13000	ug/Kg	8270D
Dibenzofuran	2700		66	150	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: 401075-East Side Wall-8			Lab ID: R2102458-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluorene	5200		39	150	ug/Kg	8270D
Naphthalene	58000	D	520	1500	ug/Kg	8270D
Phenanthrene	11000		79	150	ug/Kg	8270D
Pyrene	250		72	150	ug/Kg	8270D

CLIENT ID: 401075-North Side Wall-9			Lab ID: R2102458-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	83.4				Percent	ALS SOP
2-Butanone (MEK)	760	BJ	650	1600	ug/Kg	8260C
Chloroform	66	J	65	1600	ug/Kg	8260C
Ethylbenzene	4800		65	1600	ug/Kg	8260C
Isopropylbenzene (Cumene)	6800		65	1600	ug/Kg	8260C
Methyl Acetate	390	BJ	270	1600	ug/Kg	8260C
Methylcyclohexane	390	J	100	1600	ug/Kg	8260C
Tetrachloroethene (PCE)	31000		74	1600	ug/Kg	8260C
Toluene	200	J	65	1600	ug/Kg	8260C
Trichloroethene (TCE)	340	J	71	1600	ug/Kg	8260C
cis-1,2-Dichloroethene	2400		65	1600	ug/Kg	8260C
m,p-Xylenes	9000		120	3200	ug/Kg	8260C
o-Xylene	6200		65	1600	ug/Kg	8260C
2-Methylnaphthalene	6800		43	150	ug/Kg	8270D
Acenaphthene	430		37	150	ug/Kg	8270D
Acenaphthylene	120	J	40	150	ug/Kg	8270D
Anthracene	180		90	150	ug/Kg	8270D
Biphenyl	610	J	190	730	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	2500	J	670	13000	ug/Kg	8270D
Dibenzofuran	430		65	150	ug/Kg	8270D
Fluorene	1000		38	150	ug/Kg	8270D
Naphthalene	10000		52	150	ug/Kg	8270D
Phenanthrene	1900		78	150	ug/Kg	8270D

CLIENT ID: 401075-North Bottom-10			Lab ID: R2102458-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	84.6				Percent	ALS SOP
2-Butanone (MEK)	810	BJ	630	1600	ug/Kg	8260C
Chloroform	65	J	63	1600	ug/Kg	8260C
Ethylbenzene	310	J	63	1600	ug/Kg	8260C
Isopropylbenzene (Cumene)	720	J	63	1600	ug/Kg	8260C
Tetrachloroethene (PCE)	2300		73	1600	ug/Kg	8260C
m,p-Xylenes	530	J	120	3100	ug/Kg	8260C
o-Xylene	520	J	63	1600	ug/Kg	8260C
2-Methylnaphthalene	1100		4.0	14	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: 401075-North Bottom-10			Lab ID: R2102458-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acenaphthene	120		3.5	14	ug/Kg	8270D
Anthracene	62		8.4	14	ug/Kg	8270D
Biphenyl	150		18	69	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	730	J	63	1200	ug/Kg	8270D
Carbazole	38	J	29	69	ug/Kg	8270D
Chrysene	10	J	5.7	14	ug/Kg	8270D
Di-n-butyl Phthalate	43	J	34	1000	ug/Kg	8270D
Dibenzofuran	110		6.1	14	ug/Kg	8270D
Fluorene	230		3.6	14	ug/Kg	8270D
Naphthalene	1400		4.8	14	ug/Kg	8270D
Phenanthrene	520		7.3	14	ug/Kg	8270D
Pyrene	13	J	6.7	14	ug/Kg	8270D

CLIENT ID: 401075-South Bottom-11			Lab ID: R2102458-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	79.7				Percent	ALS SOP
2-Butanone (MEK)	920	BJ	680	1700	ug/Kg	8260C
Cyclohexane	490	J	89	1700	ug/Kg	8260C
Ethylbenzene	8300		68	1700	ug/Kg	8260C
Isopropylbenzene (Cumene)	11000		68	1700	ug/Kg	8260C
Methyl Acetate	340	BJ	290	1700	ug/Kg	8260C
Methylcyclohexane	1700	J	110	1700	ug/Kg	8260C
Tetrachloroethene (PCE)	51000		78	1700	ug/Kg	8260C
Toluene	410	J	68	1700	ug/Kg	8260C
Trichloroethene (TCE)	2600		75	1700	ug/Kg	8260C
cis-1,2-Dichloroethene	5500		68	1700	ug/Kg	8260C
m,p-Xylenes	14000		130	3400	ug/Kg	8260C
o-Xylene	10000		68	1700	ug/Kg	8260C
2-Methylnaphthalene	72000	D	450	1500	ug/Kg	8270D
Acenaphthene	2900		39	150	ug/Kg	8270D
Anthracene	1100		94	150	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	4500	J	700	14000	ug/Kg	8270D
Chrysene	100	J	63	150	ug/Kg	8270D
Dibenzofuran	2200		68	150	ug/Kg	8270D
Fluorene	4300		40	150	ug/Kg	8270D
Naphthalene	48000	D	540	1500	ug/Kg	8270D
Phenanthrene	9100		82	150	ug/Kg	8270D
Pyrene	190		75	150	ug/Kg	8270D

CLIENT ID: Drum 6-Phase III-Purge Water			Lab ID: R2102458-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,1-Dichloroethene (1,1-DCE)	0.36	J	0.20	5.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: Drum 6-Phase III-Purge Water			Lab ID: R2102458-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	3.1	J	0.78	10	ug/L	8260C
4-Methyl-2-pentanone	0.57	J	0.20	10	ug/L	8260C
Acetone	15		5.0	10	ug/L	8260C
Ethylbenzene	0.46	J	0.20	5.0	ug/L	8260C
Isopropylbenzene (Cumene)	0.51	J	0.20	5.0	ug/L	8260C
Tetrachloroethene (PCE)	33		0.21	5.0	ug/L	8260C
Toluene	0.54	J	0.20	5.0	ug/L	8260C
Trichloroethene (TCE)	12		0.20	5.0	ug/L	8260C
Vinyl Chloride	1.7	J	0.20	5.0	ug/L	8260C
Xylenes, Total	1.2	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	350	D	0.58	13	ug/L	8260C
trans-1,2-Dichloroethene	0.59	J	0.20	5.0	ug/L	8260C

CLIENT ID: Drum 1-PD1-Decon Water			Lab ID: R2102458-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	14000		1000	2000	ug/L	8260C
Chloroform	90	J	48	1000	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:**R2102458
Project: Admiral Cleaners/1602504

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2102458-001	401075-South Sidewall-8	3/16/2021	1025
R2102458-002	401075-West Sidewall-8	3/16/2021	1030
R2102458-003	401075-FD-031621	3/16/2021	
R2102458-004	401075-East Side Wall-8	3/16/2021	1245
R2102458-005	401075-North Side Wall-9	3/16/2021	1315
R2102458-006	401075-North Bottom-10	3/16/2021	1320
R2102458-007	401075-South Bottom-11	3/16/2021	1325
R2102458-008	Drum 6-Phase III-Purge Water	3/16/2021	1650
R2102458-009	Drum 1-PD1-Decon Water	3/16/2021	1655

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 59017

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: Admiral Cleaners	Project Number: 160257.04
Project Manager: Chris Schroer	Report CC: ~~Esten~~ cschroer@eaest.com
Company/Address: EA Engineering 269 W Jefferson St Syracuse, NY 13202	
Phone #: 315-565-6565	Email: cschroer@eaest.com
Sampler's Signature:	Sampler's Printed Name: Mike Wright

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 0 | 0 | | | | | | 1 | | | | | | | |

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	VOA	TCLP	TCLP VOC					REMARKS/ ALTERNATE DESCRIPTION
401075-SouthSidewall-8		3/16/21	1025	Soil	6	X	X													MS/MSD
401075-WestSidewall-8		3/16/21	1030	Soil	2	X	X													
401075-FD-031621		3/16/21		Soil	2	X	X													
401075-EastSidewall-8		3/16/21	1245	Soil	2	X	X													
401075-NorthSidewall-9		3/16/21	1315	Soil	2	X	X													
401075-NorthBottom-10		3/16/21	1320	Soil	2	X	X													
401075-SouthBottom-11		3/16/21	1325	Soil	2	X	X													
Drum 6-PhaseIII-Purgewater		3/16/21	1650	GW	3								X							
Drum 1-PDI-Decongwater		3/16/21	1655	GW	3								X							
Drum 2-Bedrock well-Soil		3/16/21	1705	Soil	4	X								X	X					
Drum 3-MW19-Soil		3/16/21	1715	Soil	4	X								X	X					

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
~~Metals~~

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
_____ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name: Mike Wright	Printed Name: Gregory D. Emerton	Printed Name	Printed Name	Printed Name	
Firm: EA	Firm: ALS	Firm	Firm	Firm	
Date/Time: 3/16/21 1830	Date/Time: 3-17-21 09:55	Date/Time	Date/Time	Date/Time	

R2102458 5
EA Engineering, Science, and Technology
Admiral Cleaners

Distribution: White - Lab Copy; Yellow - Return to Originator

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 58873

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Project Name	Project Number
Project Manager	Report CC
Company/Address SAME AS PAGE 1	
Phone #	Email
Sampler's Signature	Sampler's Printed Name

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOAs • 8260 • 624 • CLP	GCMS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TCLP VOC	TCLP						
Drum 4-Bedrock well-Soil	J	3/16/21	1720	Soil	4	X							X	X						
Drum 5-PDI-Soil	cuttings	3/16/21	1730	Soil	4	X							X	X						

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
~~Metals~~

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
_____ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name M. Calvert	Printed Name Gregory Esmerian	Printed Name	Printed Name	Printed Name	
Firm EA	Firm ALS	Firm	Firm	Firm	
Date/Time 3/16/21 1832	Date/Time 3/17/21 09:55	Date/Time	Date/Time	Date/Time	

R2102458 5
EA Engineering, Science, and Technology
Admiral Cleaners

Distribution: White - Lab Copy; Yellow - Return to Originator

R2102458 5
EA Engineering, Science, and Technology
Admiral Cleaners

Cooler Receipt and Preservation Check Form

Project/Client EA Engineering Folder Number

Cooler received on 3-17-21 by: MZ

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	(Y)	N
2	Custody papers properly completed (ink, signed)?	(Y)	N
3	Did all bottles arrive in good condition (unbroken)?	(Y)	N
4	Circle: (Wet Ice) Dry Ice Gel packs present?	(Y)	N

5a	Perchlorate samples have required headspace?	Y	N	(NA)
5b	Did VOA vials, Alk,or Sulfide have sig* bubbles?	Y	(N)	NA
6	Where did the bottles originate?	(ALS/ROC)	CLIENT	
7	Soil VOA received as: (Bulk) Encore 5035set (NA)			MZ 3-17-21

8. Temperature Readings Date: 3-17-21 Time: 10:34 ID: IR#7 (IR#11) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	5.2						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by MZ on 3-17-21 at 10:41
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 3/18/21 Time: 1008 by: @

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 2504-17 client

Explain all Discrepancies/ Other Comments:

HPROD	(BULK)
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: @

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

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Analyst Summary report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504		

Sample Name:	401075-South Sidewall-8	**Date Collected:**	03/16/21
Lab Code:	R2102458-001	**Date Received:**	03/17/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	401075-West Sidewall-8	**Date Collected:**	03/16/21
Lab Code:	R2102458-002	**Date Received:**	03/17/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	401075-FD-031621	**Date Collected:**	03/16/21
Lab Code:	R2102458-003	**Date Received:**	03/17/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	401075-East Side Wall-8	**Date Collected:**	03/16/21
Lab Code:	R2102458-004	**Date Received:**	03/17/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

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Analyst Summary report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504

Sample Name: 401075-East Side Wall-8 **Date Collected:** 03/16/21
Lab Code: R2102458-004.R01 **Date Received:** 03/17/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: 401075-North Side Wall-9 **Date Collected:** 03/16/21
Lab Code: R2102458-005 **Date Received:** 03/17/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: 401075-North Bottom-10 **Date Collected:** 03/16/21
Lab Code: R2102458-006 **Date Received:** 03/17/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: 401075-South Bottom-11 **Date Collected:** 03/16/21
Lab Code: R2102458-007 **Date Received:** 03/17/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

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Analyst Summary report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504		

Sample Name:	401075-South Bottom-11	**Date Collected:**	03/16/21
Lab Code:	R2102458-007.R01	**Date Received:**	03/17/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	Drum 6-Phase III-Purge Water	**Date Collected:**	03/16/21
Lab Code:	R2102458-008	**Date Received:**	03/17/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	Drum 6-Phase III-Purge Water	**Date Collected:**	03/16/21
Lab Code:	R2102458-008.R01	**Date Received:**	03/17/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	Drum 1-PD1-Decon Water	**Date Collected:**	03/16/21
Lab Code:	R2102458-009	**Date Received:**	03/17/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

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Phone (585) 288-5380 Fax (585) 288-8475
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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.3 U	30	1.3	5	03/30/21 13:19	
1,1,2,2-Tetrachloroethane	2.7 U	30	2.7	5	03/30/21 13:19	
1,1,2-Trichloroethane	1.3 U	30	1.3	5	03/30/21 13:19	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3 U	30	1.3	5	03/30/21 13:19	
1,1-Dichloroethane (1,1-DCA)	1.3 U	30	1.3	5	03/30/21 13:19	
1,1-Dichloroethene (1,1-DCE)	1.8 U	30	1.8	5	03/30/21 13:19	
1,2,3-Trichlorobenzene	3.2 U	30	3.2	5	03/30/21 13:19	
1,2,4-Trichlorobenzene	2.6 U	30	2.6	5	03/30/21 13:19	
1,2-Dibromo-3-chloropropane (DBCP)	4.6 U	30	4.6	5	03/30/21 13:19	
1,2-Dibromoethane	1.3 U	30	1.3	5	03/30/21 13:19	
1,2-Dichlorobenzene	1.3 U	30	1.3	5	03/30/21 13:19	
1,2-Dichloroethane	1.3 U	30	1.3	5	03/30/21 13:19	
1,2-Dichloropropane	1.3 U	30	1.3	5	03/30/21 13:19	
1,3-Dichlorobenzene	1.3 U	30	1.3	5	03/30/21 13:19	
1,4-Dichlorobenzene	1.4 U	30	1.4	5	03/30/21 13:19	
1,4-Dioxane	130 U	600	130	5	03/30/21 13:19	
2-Butanone (MEK)	13 U	30	13	5	03/30/21 13:19	
2-Hexanone	2.2 U	30	2.2	5	03/30/21 13:19	
4-Methyl-2-pentanone	1.4 U	30	1.4	5	03/30/21 13:19	
Acetone	**97**	30	29	5	03/30/21 13:19	
Benzene	1.3 U	30	1.3	5	03/30/21 13:19	
Bromochloromethane	1.3 U	30	1.3	5	03/30/21 13:19	
Bromodichloromethane	1.3 U	30	1.3	5	03/30/21 13:19	
Bromoform	3.1 U	30	3.1	5	03/30/21 13:19	
Bromomethane	13 U	30	13	5	03/30/21 13:19	
Carbon Disulfide	1.8 U	30	1.8	5	03/30/21 13:19	
Carbon Tetrachloride	1.6 U	30	1.6	5	03/30/21 13:19	
Chlorobenzene	1.3 U	30	1.3	5	03/30/21 13:19	
Chloroethane	2.5 U	30	2.5	5	03/30/21 13:19	
Chloroform	1.3 U	30	1.3	5	03/30/21 13:19	
Chloromethane	8.5 U	30	8.5	5	03/30/21 13:19	
Cyclohexane	1.6 U	30	1.6	5	03/30/21 13:19	
Dibromochloromethane	1.3 U	30	1.3	5	03/30/21 13:19	
Dichlorodifluoromethane (CFC 12)	2.0 U	30	2.0	5	03/30/21 13:19	
Dichloromethane	17 U	30	17	5	03/30/21 13:19	
Ethylbenzene	**2.5 J**	30	1.3	5	03/30/21 13:19	
Isopropylbenzene (Cumene)	**16 J**	30	1.3	5	03/30/21 13:19	
Methyl Acetate	5.1 U	30	5.1	5	03/30/21 13:19	
Methyl tert-Butyl Ether	1.3 U	30	1.3	5	03/30/21 13:19	
Methylcyclohexane	1.9 U	30	1.9	5	03/30/21 13:19	
Styrene	1.3 U	30	1.3	5	03/30/21 13:19	
Tetrachloroethene (PCE)	**14 J**	30	1.4	5	03/30/21 13:19	
Tetrahydrofuran (THF)	12 U	30	12	5	03/30/21 13:19	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Toluene	1.3 U	30	1.3	5	03/30/21 13:19	
Trichloroethene (TCE)	1.4 U	30	1.4	5	03/30/21 13:19	
Trichlorofluoromethane (CFC 11)	1.6 U	30	1.6	5	03/30/21 13:19	
Vinyl Chloride	2.8 U	30	2.8	5	03/30/21 13:19	
cis-1,2-Dichloroethene	**5.6 J**	30	1.3	5	03/30/21 13:19	
cis-1,3-Dichloropropene	1.3 U	30	1.3	5	03/30/21 13:19	
m,p-Xylenes	**5.8 J**	60	2.3	5	03/30/21 13:19	
o-Xylene	**7.0 J**	30	1.3	5	03/30/21 13:19	
trans-1,2-Dichloroethene	1.3 U	30	1.3	5	03/30/21 13:19	
trans-1,3-Dichloropropene	1.3 U	30	1.3	5	03/30/21 13:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	31 - 154	03/30/21 13:19	
Dibromofluoromethane	97	63 - 138	03/30/21 13:19	
Toluene-d8	108	66 - 138	03/30/21 13:19	

ALS Group USA, Corp.
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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:30
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-West Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.2	U	30	1.2	5	03/30/21 13:42	
1,1,2,2-Tetrachloroethane	2.7	U	30	2.7	5	03/30/21 13:42	
1,1,2-Trichloroethane	1.2	U	30	1.2	5	03/30/21 13:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	30	1.2	5	03/30/21 13:42	
1,1-Dichloroethane (1,1-DCA)	1.2	U	30	1.2	5	03/30/21 13:42	
1,1-Dichloroethene (1,1-DCE)	1.8	U	30	1.8	5	03/30/21 13:42	
1,2,3-Trichlorobenzene	3.2	U	30	3.2	5	03/30/21 13:42	
1,2,4-Trichlorobenzene	2.6	U	30	2.6	5	03/30/21 13:42	
1,2-Dibromo-3-chloropropane (DBCP)	4.5	U	30	4.5	5	03/30/21 13:42	
1,2-Dibromoethane	1.2	U	30	1.2	5	03/30/21 13:42	
1,2-Dichlorobenzene	1.2	U	30	1.2	5	03/30/21 13:42	
1,2-Dichloroethane	1.2	U	30	1.2	5	03/30/21 13:42	
1,2-Dichloropropane	1.2	U	30	1.2	5	03/30/21 13:42	
1,3-Dichlorobenzene	1.2	U	30	1.2	5	03/30/21 13:42	
1,4-Dichlorobenzene	1.4	U	30	1.4	5	03/30/21 13:42	
1,4-Dioxane	120	U	600	120	5	03/30/21 13:42	
2-Butanone (MEK)	**13**	**J**	30	12	5	03/30/21 13:42	
2-Hexanone	2.2	U	30	2.2	5	03/30/21 13:42	
4-Methyl-2-pentanone	1.4	U	30	1.4	5	03/30/21 13:42	
Acetone	**140**		30	29	5	03/30/21 13:42	
Benzene	1.2	U	30	1.2	5	03/30/21 13:42	
Bromochloromethane	1.2	U	30	1.2	5	03/30/21 13:42	
Bromodichloromethane	1.2	U	30	1.2	5	03/30/21 13:42	
Bromoform	3.0	U	30	3.0	5	03/30/21 13:42	
Bromomethane	13	U	30	13	5	03/30/21 13:42	
Carbon Disulfide	1.8	U	30	1.8	5	03/30/21 13:42	
Carbon Tetrachloride	1.6	U	30	1.6	5	03/30/21 13:42	
Chlorobenzene	1.2	U	30	1.2	5	03/30/21 13:42	
Chloroethane	2.5	U	30	2.5	5	03/30/21 13:42	
Chloroform	1.2	U	30	1.2	5	03/30/21 13:42	
Chloromethane	8.4	U	30	8.4	5	03/30/21 13:42	
Cyclohexane	1.6	U	30	1.6	5	03/30/21 13:42	
Dibromochloromethane	1.2	U	30	1.2	5	03/30/21 13:42	
Dichlorodifluoromethane (CFC 12)	2.0	U	30	2.0	5	03/30/21 13:42	
Dichloromethane	17	U	30	17	5	03/30/21 13:42	
Ethylbenzene	1.2	U	30	1.2	5	03/30/21 13:42	
Isopropylbenzene (Cumene)	**9.6**	**J**	30	1.2	5	03/30/21 13:42	
Methyl Acetate	5.1	U	30	5.1	5	03/30/21 13:42	
Methyl tert-Butyl Ether	1.2	U	30	1.2	5	03/30/21 13:42	
Methylcyclohexane	**2.4**	**J**	30	1.9	5	03/30/21 13:42	
Styrene	1.2	U	30	1.2	5	03/30/21 13:42	
Tetrachloroethene (PCE)	**230**		30	1.4	5	03/30/21 13:42	
Tetrahydrofuran (THF)	12	U	30	12	5	03/30/21 13:42	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:30
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-West Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Toluene	1.2 U	30	1.2	5	03/30/21 13:42	
Trichloroethene (TCE)	**9.1 J**	30	1.4	5	03/30/21 13:42	
Trichlorofluoromethane (CFC 11)	1.6 U	30	1.6	5	03/30/21 13:42	
Vinyl Chloride	2.8 U	30	2.8	5	03/30/21 13:42	
cis-1,2-Dichloroethene	**60**	30	1.2	5	03/30/21 13:42	
cis-1,3-Dichloropropene	1.2 U	30	1.2	5	03/30/21 13:42	
m,p-Xylenes	**2.7 J**	60	2.3	5	03/30/21 13:42	
o-Xylene	**6.6 J**	30	1.2	5	03/30/21 13:42	
trans-1,2-Dichloroethene	1.2 U	30	1.2	5	03/30/21 13:42	
trans-1,3-Dichloropropene	1.2 U	30	1.2	5	03/30/21 13:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	31 - 154	03/30/21 13:42	
Dibromofluoromethane	96	63 - 138	03/30/21 13:42	
Toluene-d8	106	66 - 138	03/30/21 13:42	

ALS Group USA, Corp.
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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-FD-031621	**Units:**	ug/Kg
Lab Code:	R2102458-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	32 U	800	32	133	03/30/21 14:15	
1,1,2,2-Tetrachloroethane	70 U	800	70	133	03/30/21 14:15	
1,1,2-Trichloroethane	32 U	800	32	133	03/30/21 14:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	32 U	800	32	133	03/30/21 14:15	
1,1-Dichloroethane (1,1-DCA)	32 U	800	32	133	03/30/21 14:15	
1,1-Dichloroethene (1,1-DCE)	47 U	800	47	133	03/30/21 14:15	
1,2,3-Trichlorobenzene	83 U	800	83	133	03/30/21 14:15	
1,2,4-Trichlorobenzene	67 U	800	67	133	03/30/21 14:15	
1,2-Dibromo-3-chloropropane (DBCP)	120 U	800	120	133	03/30/21 14:15	
1,2-Dibromoethane	32 U	800	32	133	03/30/21 14:15	
1,2-Dichlorobenzene	32 U	800	32	133	03/30/21 14:15	
1,2-Dichloroethane	32 U	800	32	133	03/30/21 14:15	
1,2-Dichloropropane	32 U	800	32	133	03/30/21 14:15	
1,3-Dichlorobenzene	32 U	800	32	133	03/30/21 14:15	
1,4-Dichlorobenzene	35 U	800	35	133	03/30/21 14:15	
1,4-Dioxane	3200 U	16000	3200	133	03/30/21 14:15	
2-Butanone (MEK)	**510 BJ**	800	320	133	03/30/21 14:15	
2-Hexanone	58 U	800	58	133	03/30/21 14:15	
4-Methyl-2-pentanone	37 U	800	37	133	03/30/21 14:15	
Acetone	750 U	800	750	133	03/30/21 14:15	
Benzene	32 U	800	32	133	03/30/21 14:15	
Bromochloromethane	32 U	800	32	133	03/30/21 14:15	
Bromodichloromethane	32 U	800	32	133	03/30/21 14:15	
Bromoform	80 U	800	80	133	03/30/21 14:15	
Bromomethane	340 U	800	340	133	03/30/21 14:15	
Carbon Disulfide	47 U	800	47	133	03/30/21 14:15	
Carbon Tetrachloride	42 U	800	42	133	03/30/21 14:15	
Chlorobenzene	32 U	800	32	133	03/30/21 14:15	
Chloroethane	66 U	800	66	133	03/30/21 14:15	
Chloroform	**37 J**	800	32	133	03/30/21 14:15	
Chloromethane	230 U	800	230	133	03/30/21 14:15	
Cyclohexane	42 U	800	42	133	03/30/21 14:15	
Dibromochloromethane	32 U	800	32	133	03/30/21 14:15	
Dichlorodifluoromethane (CFC 12)	53 U	800	53	133	03/30/21 14:15	
Dichloromethane	450 U	800	450	133	03/30/21 14:15	
Ethylbenzene	32 U	800	32	133	03/30/21 14:15	
Isopropylbenzene (Cumene)	**49 J**	800	32	133	03/30/21 14:15	
Methyl Acetate	**340 BJ**	800	140	133	03/30/21 14:15	
Methyl tert-Butyl Ether	32 U	800	32	133	03/30/21 14:15	
Methylcyclohexane	50 U	800	50	133	03/30/21 14:15	
Styrene	32 U	800	32	133	03/30/21 14:15	
Tetrachloroethene (PCE)	**3200**	800	37	133	03/30/21 14:15	
Tetrahydrofuran (THF)	310 U	800	310	133	03/30/21 14:15	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-FD-031621	**Units:**	ug/Kg
Lab Code:	R2102458-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Toluene	32	U	800	32	133	03/30/21 14:15	
Trichloroethene (TCE)	**240**	**J**	800	35	133	03/30/21 14:15	
Trichlorofluoromethane (CFC 11)	42	U	800	42	133	03/30/21 14:15	
Vinyl Chloride	74	U	800	74	133	03/30/21 14:15	
cis-1,2-Dichloroethene	**980**		800	32	133	03/30/21 14:15	
cis-1,3-Dichloropropene	32	U	800	32	133	03/30/21 14:15	
m,p-Xylenes	59	U	1600	59	133	03/30/21 14:15	
o-Xylene	32	U	800	32	133	03/30/21 14:15	
trans-1,2-Dichloroethene	32	U	800	32	133	03/30/21 14:15	
trans-1,3-Dichloropropene	32	U	800	32	133	03/30/21 14:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	31 - 154	03/30/21 14:15	
Dibromofluoromethane	95	63 - 138	03/30/21 14:15	
Toluene-d8	103	66 - 138	03/30/21 14:15	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-East Side Wall-8	**Units:**	ug/Kg
Lab Code:	R2102458-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	130	U	3100	130	530	03/30/21 14:37	
1,1,2,2-Tetrachloroethane	280	U	3100	280	530	03/30/21 14:37	
1,1,2-Trichloroethane	130	U	3100	130	530	03/30/21 14:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	130	U	3100	130	530	03/30/21 14:37	
1,1-Dichloroethane (1,1-DCA)	130	U	3100	130	530	03/30/21 14:37	
1,1-Dichloroethene (1,1-DCE)	190	U	3100	190	530	03/30/21 14:37	
1,2,3-Trichlorobenzene	330	U	3100	330	530	03/30/21 14:37	
1,2,4-Trichlorobenzene	270	U	3100	270	530	03/30/21 14:37	
1,2-Dibromo-3-chloropropane (DBCP)	470	U	3100	470	530	03/30/21 14:37	
1,2-Dibromoethane	130	U	3100	130	530	03/30/21 14:37	
1,2-Dichlorobenzene	130	U	3100	130	530	03/30/21 14:37	
1,2-Dichloroethane	130	U	3100	130	530	03/30/21 14:37	
1,2-Dichloropropane	130	U	3100	130	530	03/30/21 14:37	
1,3-Dichlorobenzene	130	U	3100	130	530	03/30/21 14:37	
1,4-Dichlorobenzene	140	U	3100	140	530	03/30/21 14:37	
1,4-Dioxane	13000	U	62000	13000	530	03/30/21 14:37	
2-Butanone (MEK)	1300	U	3100	1300	530	03/30/21 14:37	
2-Hexanone	230	U	3100	230	530	03/30/21 14:37	
4-Methyl-2-pentanone	150	U	3100	150	530	03/30/21 14:37	
Acetone	3000	U	3100	3000	530	03/30/21 14:37	
Benzene	130	U	3100	130	530	03/30/21 14:37	
Bromochloromethane	130	U	3100	130	530	03/30/21 14:37	
Bromodichloromethane	130	U	3100	130	530	03/30/21 14:37	
Bromoform	320	U	3100	320	530	03/30/21 14:37	
Bromomethane	1400	U	3100	1400	530	03/30/21 14:37	
Carbon Disulfide	190	U	3100	190	530	03/30/21 14:37	
Carbon Tetrachloride	170	U	3100	170	530	03/30/21 14:37	
Chlorobenzene	130	U	3100	130	530	03/30/21 14:37	
Chloroethane	260	U	3100	260	530	03/30/21 14:37	
Chloroform	130	U	3100	130	530	03/30/21 14:37	
Chloromethane	870	U	3100	870	530	03/30/21 14:37	
Cyclohexane	**350**	**J**	3100	170	530	03/30/21 14:37	
Dibromochloromethane	130	U	3100	130	530	03/30/21 14:37	
Dichlorodifluoromethane (CFC 12)	210	U	3100	210	530	03/30/21 14:37	
Dichloromethane	1800	U	3100	1800	530	03/30/21 14:37	
Ethylbenzene	**11000**		3100	130	530	03/30/21 14:37	
Isopropylbenzene (Cumene)	**14000**		3100	130	530	03/30/21 14:37	
Methyl Acetate	530	U	3100	530	530	03/30/21 14:37	
Methyl tert-Butyl Ether	130	U	3100	130	530	03/30/21 14:37	
Methylcyclohexane	**1300**	**J**	3100	200	530	03/30/21 14:37	
Styrene	130	U	3100	130	530	03/30/21 14:37	
Tetrachloroethene (PCE)	**62000**		3100	150	530	03/30/21 14:37	
Tetrahydrofuran (THF)	1200	U	3100	1200	530	03/30/21 14:37	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-East Side Wall-8	**Units:**	ug/Kg
Lab Code:	R2102458-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Toluene	**550**	**J**	3100	130	530	03/30/21 14:37	
Trichloroethene (TCE)	**2900**	**J**	3100	140	530	03/30/21 14:37	
Trichlorofluoromethane (CFC 11)	170	U	3100	170	530	03/30/21 14:37	
Vinyl Chloride	290	U	3100	290	530	03/30/21 14:37	
cis-1,2-Dichloroethene	**4500**		3100	130	530	03/30/21 14:37	
cis-1,3-Dichloropropene	130	U	3100	130	530	03/30/21 14:37	
m,p-Xylenes	**19000**		6200	230	530	03/30/21 14:37	
o-Xylene	**13000**		3100	130	530	03/30/21 14:37	
trans-1,2-Dichloroethene	130	U	3100	130	530	03/30/21 14:37	
trans-1,3-Dichloropropene	130	U	3100	130	530	03/30/21 14:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	118	31 - 154	03/30/21 14:37	
Dibromofluoromethane	96	63 - 138	03/30/21 14:37	
Toluene-d8	106	66 - 138	03/30/21 14:37	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:15
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Side Wall-9	**Units:**	ug/Kg
Lab Code:	R2102458-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	65	U	1600	65	267	03/30/21 14:59	
1,1,2,2-Tetrachloroethane	150	U	1600	150	267	03/30/21 14:59	
1,1,2-Trichloroethane	65	U	1600	65	267	03/30/21 14:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	65	U	1600	65	267	03/30/21 14:59	
1,1-Dichloroethane (1,1-DCA)	65	U	1600	65	267	03/30/21 14:59	
1,1-Dichloroethene (1,1-DCE)	93	U	1600	93	267	03/30/21 14:59	
1,2,3-Trichlorobenzene	170	U	1600	170	267	03/30/21 14:59	
1,2,4-Trichlorobenzene	140	U	1600	140	267	03/30/21 14:59	
1,2-Dibromo-3-chloropropane (DBCP)	250	U	1600	250	267	03/30/21 14:59	
1,2-Dibromoethane	65	U	1600	65	267	03/30/21 14:59	
1,2-Dichlorobenzene	65	U	1600	65	267	03/30/21 14:59	
1,2-Dichloroethane	65	U	1600	65	267	03/30/21 14:59	
1,2-Dichloropropane	65	U	1600	65	267	03/30/21 14:59	
1,3-Dichlorobenzene	65	U	1600	65	267	03/30/21 14:59	
1,4-Dichlorobenzene	71	U	1600	71	267	03/30/21 14:59	
1,4-Dioxane	6500	U	32000	6500	267	03/30/21 14:59	
2-Butanone (MEK)	**760**	**BJ**	1600	650	267	03/30/21 14:59	
2-Hexanone	120	U	1600	120	267	03/30/21 14:59	
4-Methyl-2-pentanone	74	U	1600	74	267	03/30/21 14:59	
Acetone	1600	U	1600	1600	267	03/30/21 14:59	
Benzene	65	U	1600	65	267	03/30/21 14:59	
Bromochloromethane	65	U	1600	65	267	03/30/21 14:59	
Bromodichloromethane	65	U	1600	65	267	03/30/21 14:59	
Bromoform	170	U	1600	170	267	03/30/21 14:59	
Bromomethane	680	U	1600	680	267	03/30/21 14:59	
Carbon Disulfide	93	U	1600	93	267	03/30/21 14:59	
Carbon Tetrachloride	84	U	1600	84	267	03/30/21 14:59	
Chlorobenzene	65	U	1600	65	267	03/30/21 14:59	
Chloroethane	140	U	1600	140	267	03/30/21 14:59	
Chloroform	**66**	**J**	1600	65	267	03/30/21 14:59	
Chloromethane	450	U	1600	450	267	03/30/21 14:59	
Cyclohexane	84	U	1600	84	267	03/30/21 14:59	
Dibromochloromethane	65	U	1600	65	267	03/30/21 14:59	
Dichlorodifluoromethane (CFC 12)	110	U	1600	110	267	03/30/21 14:59	
Dichloromethane	900	U	1600	900	267	03/30/21 14:59	
Ethylbenzene	**4800**		1600	65	267	03/30/21 14:59	
Isopropylbenzene (Cumene)	**6800**		1600	65	267	03/30/21 14:59	
Methyl Acetate	**390**	**BJ**	1600	270	267	03/30/21 14:59	
Methyl tert-Butyl Ether	65	U	1600	65	267	03/30/21 14:59	
Methylcyclohexane	**390**	**J**	1600	100	267	03/30/21 14:59	
Styrene	65	U	1600	65	267	03/30/21 14:59	
Tetrachloroethene (PCE)	**31000**		1600	74	267	03/30/21 14:59	
Tetrahydrofuran (THF)	610	U	1600	610	267	03/30/21 14:59	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:15
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Side Wall-9	**Units:**	ug/Kg
Lab Code:	R2102458-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Toluene	**200**	**J**	1600	65	267	03/30/21 14:59	
Trichloroethene (TCE)	**340**	**J**	1600	71	267	03/30/21 14:59	
Trichlorofluoromethane (CFC 11)	84	U	1600	84	267	03/30/21 14:59	
Vinyl Chloride	150	U	1600	150	267	03/30/21 14:59	
cis-1,2-Dichloroethene	**2400**		1600	65	267	03/30/21 14:59	
cis-1,3-Dichloropropene	65	U	1600	65	267	03/30/21 14:59	
m,p-Xylenes	**9000**		3200	120	267	03/30/21 14:59	
o-Xylene	**6200**		1600	65	267	03/30/21 14:59	
trans-1,2-Dichloroethene	65	U	1600	65	267	03/30/21 14:59	
trans-1,3-Dichloropropene	65	U	1600	65	267	03/30/21 14:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	123	31 - 154	03/30/21 14:59	
Dibromofluoromethane	94	63 - 138	03/30/21 14:59	
Toluene-d8	105	66 - 138	03/30/21 14:59	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Bottom-10	**Units:**	ug/Kg
Lab Code:	R2102458-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	63	U	1600	63	265	03/30/21 15:21	
1,1,2,2-Tetrachloroethane	140	U	1600	140	265	03/30/21 15:21	
1,1,2-Trichloroethane	63	U	1600	63	265	03/30/21 15:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	63	U	1600	63	265	03/30/21 15:21	
1,1-Dichloroethane (1,1-DCA)	63	U	1600	63	265	03/30/21 15:21	
1,1-Dichloroethene (1,1-DCE)	91	U	1600	91	265	03/30/21 15:21	
1,2,3-Trichlorobenzene	170	U	1600	170	265	03/30/21 15:21	
1,2,4-Trichlorobenzene	140	U	1600	140	265	03/30/21 15:21	
1,2-Dibromo-3-chloropropane (DBCP)	240	U	1600	240	265	03/30/21 15:21	
1,2-Dibromoethane	63	U	1600	63	265	03/30/21 15:21	
1,2-Dichlorobenzene	63	U	1600	63	265	03/30/21 15:21	
1,2-Dichloroethane	63	U	1600	63	265	03/30/21 15:21	
1,2-Dichloropropane	63	U	1600	63	265	03/30/21 15:21	
1,3-Dichlorobenzene	63	U	1600	63	265	03/30/21 15:21	
1,4-Dichlorobenzene	69	U	1600	69	265	03/30/21 15:21	
1,4-Dioxane	6300	U	31000	6300	265	03/30/21 15:21	
2-Butanone (MEK)	**810**	**BJ**	1600	630	265	03/30/21 15:21	
2-Hexanone	120	U	1600	120	265	03/30/21 15:21	
4-Methyl-2-pentanone	73	U	1600	73	265	03/30/21 15:21	
Acetone	1500	U	1600	1500	265	03/30/21 15:21	
Benzene	63	U	1600	63	265	03/30/21 15:21	
Bromochloromethane	63	U	1600	63	265	03/30/21 15:21	
Bromodichloromethane	63	U	1600	63	265	03/30/21 15:21	
Bromoform	160	U	1600	160	265	03/30/21 15:21	
Bromomethane	660	U	1600	660	265	03/30/21 15:21	
Carbon Disulfide	91	U	1600	91	265	03/30/21 15:21	
Carbon Tetrachloride	82	U	1600	82	265	03/30/21 15:21	
Chlorobenzene	63	U	1600	63	265	03/30/21 15:21	
Chloroethane	130	U	1600	130	265	03/30/21 15:21	
Chloroform	**65**	**J**	1600	63	265	03/30/21 15:21	
Chloromethane	440	U	1600	440	265	03/30/21 15:21	
Cyclohexane	82	U	1600	82	265	03/30/21 15:21	
Dibromochloromethane	63	U	1600	63	265	03/30/21 15:21	
Dichlorodifluoromethane (CFC 12)	110	U	1600	110	265	03/30/21 15:21	
Dichloromethane	880	U	1600	880	265	03/30/21 15:21	
Ethylbenzene	**310**	**J**	1600	63	265	03/30/21 15:21	
Isopropylbenzene (Cumene)	**720**	**J**	1600	63	265	03/30/21 15:21	
Methyl Acetate	270	U	1600	270	265	03/30/21 15:21	
Methyl tert-Butyl Ether	63	U	1600	63	265	03/30/21 15:21	
Methylcyclohexane	98	U	1600	98	265	03/30/21 15:21	
Styrene	63	U	1600	63	265	03/30/21 15:21	
Tetrachloroethene (PCE)	**2300**		1600	73	265	03/30/21 15:21	
Tetrahydrofuran (THF)	600	U	1600	600	265	03/30/21 15:21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Bottom-10	**Units:**	ug/Kg
Lab Code:	R2102458-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Toluene	63	U	1600	63	265	03/30/21 15:21	
Trichloroethene (TCE)	69	U	1600	69	265	03/30/21 15:21	
Trichlorofluoromethane (CFC 11)	82	U	1600	82	265	03/30/21 15:21	
Vinyl Chloride	150	U	1600	150	265	03/30/21 15:21	
cis-1,2-Dichloroethene	63	U	1600	63	265	03/30/21 15:21	
cis-1,3-Dichloropropene	63	U	1600	63	265	03/30/21 15:21	
m,p-Xylenes	**530**	**J**	3100	120	265	03/30/21 15:21	
o-Xylene	**520**	**J**	1600	63	265	03/30/21 15:21	
trans-1,2-Dichloroethene	63	U	1600	63	265	03/30/21 15:21	
trans-1,3-Dichloropropene	63	U	1600	63	265	03/30/21 15:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	121	31 - 154	03/30/21 15:21	
Dibromofluoromethane	92	63 - 138	03/30/21 15:21	
Toluene-d8	102	66 - 138	03/30/21 15:21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Bottom-11	**Units:**	ug/Kg
Lab Code:	R2102458-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	68	U	1700	68	270	03/30/21 15:43	
1,1,2,2-Tetrachloroethane	150	U	1700	150	270	03/30/21 15:43	
1,1,2-Trichloroethane	68	U	1700	68	270	03/30/21 15:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	68	U	1700	68	270	03/30/21 15:43	
1,1-Dichloroethane (1,1-DCA)	68	U	1700	68	270	03/30/21 15:43	
1,1-Dichloroethene (1,1-DCE)	99	U	1700	99	270	03/30/21 15:43	
1,2,3-Trichlorobenzene	180	U	1700	180	270	03/30/21 15:43	
1,2,4-Trichlorobenzene	150	U	1700	150	270	03/30/21 15:43	
1,2-Dibromo-3-chloropropane (DBCP)	260	U	1700	260	270	03/30/21 15:43	
1,2-Dibromoethane	68	U	1700	68	270	03/30/21 15:43	
1,2-Dichlorobenzene	68	U	1700	68	270	03/30/21 15:43	
1,2-Dichloroethane	68	U	1700	68	270	03/30/21 15:43	
1,2-Dichloropropane	68	U	1700	68	270	03/30/21 15:43	
1,3-Dichlorobenzene	68	U	1700	68	270	03/30/21 15:43	
1,4-Dichlorobenzene	75	U	1700	75	270	03/30/21 15:43	
1,4-Dioxane	6800	U	34000	6800	270	03/30/21 15:43	
2-Butanone (MEK)	**920**	**BJ**	1700	680	270	03/30/21 15:43	
2-Hexanone	130	U	1700	130	270	03/30/21 15:43	
4-Methyl-2-pentanone	78	U	1700	78	270	03/30/21 15:43	
Acetone	1600	U	1700	1600	270	03/30/21 15:43	
Benzene	68	U	1700	68	270	03/30/21 15:43	
Bromochloromethane	68	U	1700	68	270	03/30/21 15:43	
Bromodichloromethane	68	U	1700	68	270	03/30/21 15:43	
Bromoform	170	U	1700	170	270	03/30/21 15:43	
Bromomethane	720	U	1700	720	270	03/30/21 15:43	
Carbon Disulfide	99	U	1700	99	270	03/30/21 15:43	
Carbon Tetrachloride	89	U	1700	89	270	03/30/21 15:43	
Chlorobenzene	68	U	1700	68	270	03/30/21 15:43	
Chloroethane	140	U	1700	140	270	03/30/21 15:43	
Chloroform	68	U	1700	68	270	03/30/21 15:43	
Chloromethane	480	U	1700	480	270	03/30/21 15:43	
Cyclohexane	**490**	**J**	1700	89	270	03/30/21 15:43	
Dibromochloromethane	68	U	1700	68	270	03/30/21 15:43	
Dichlorodifluoromethane (CFC 12)	120	U	1700	120	270	03/30/21 15:43	
Dichloromethane	950	U	1700	950	270	03/30/21 15:43	
Ethylbenzene	**8300**		1700	68	270	03/30/21 15:43	
Isopropylbenzene (Cumene)	**11000**		1700	68	270	03/30/21 15:43	
Methyl Acetate	**340**	**BJ**	1700	290	270	03/30/21 15:43	
Methyl tert-Butyl Ether	68	U	1700	68	270	03/30/21 15:43	
Methylcyclohexane	**1700**	**J**	1700	110	270	03/30/21 15:43	
Styrene	68	U	1700	68	270	03/30/21 15:43	
Tetrachloroethene (PCE)	**51000**		1700	78	270	03/30/21 15:43	
Tetrahydrofuran (THF)	650	U	1700	650	270	03/30/21 15:43	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Bottom-11	**Units:**	ug/Kg
Lab Code:	R2102458-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Toluene	**410**	**J**	1700	68	270	03/30/21 15:43	
Trichloroethene (TCE)	**2600**		1700	75	270	03/30/21 15:43	
Trichlorofluoromethane (CFC 11)	89	U	1700	89	270	03/30/21 15:43	
Vinyl Chloride	160	U	1700	160	270	03/30/21 15:43	
cis-1,2-Dichloroethene	**5500**		1700	68	270	03/30/21 15:43	
cis-1,3-Dichloropropene	68	U	1700	68	270	03/30/21 15:43	
m,p-Xylenes	**14000**		3400	130	270	03/30/21 15:43	
o-Xylene	**10000**		1700	68	270	03/30/21 15:43	
trans-1,2-Dichloroethene	68	U	1700	68	270	03/30/21 15:43	
trans-1,3-Dichloropropene	68	U	1700	68	270	03/30/21 15:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	127	31 - 154	03/30/21 15:43	
Dibromofluoromethane	93	63 - 138	03/30/21 15:43	
Toluene-d8	104	66 - 138	03/30/21 15:43	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 16:50
Sample Matrix:	Water	**Date Received:**	03/17/21 09:55
Sample Name:	Drum 6-Phase III-Purge Water	**Units:**	ug/L
Lab Code:	R2102458-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,1-Dichloroethene (1,1-DCE)	**0.36 J**	5.0	0.20	1	03/26/21 17:49	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/26/21 17:49	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/26/21 17:49	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/26/21 17:49	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/26/21 17:49	
2-Butanone (MEK)	**3.1 J**	10	0.78	1	03/26/21 17:49	
2-Hexanone	0.20 U	10	0.20	1	03/26/21 17:49	
4-Methyl-2-pentanone	**0.57 J**	10	0.20	1	03/26/21 17:49	
Acetone	**15**	10	5.0	1	03/26/21 17:49	
Benzene	0.20 U	5.0	0.20	1	03/26/21 17:49	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/26/21 17:49	
Bromoform	0.25 U	5.0	0.25	1	03/26/21 17:49	
Bromomethane	0.70 U	5.0	0.70	1	03/26/21 17:49	
Carbon Disulfide	0.42 U	10	0.42	1	03/26/21 17:49	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/26/21 17:49	
Chlorobenzene	0.20 U	5.0	0.20	1	03/26/21 17:49	
Chloroethane	0.23 U	5.0	0.23	1	03/26/21 17:49	
Chloroform	0.24 U	5.0	0.24	1	03/26/21 17:49	
Chloromethane	0.28 U	5.0	0.28	1	03/26/21 17:49	
Cyclohexane	0.26 U	10	0.26	1	03/26/21 17:49	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/26/21 17:49	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/26/21 17:49	
Dichloromethane	0.65 U	5.0	0.65	1	03/26/21 17:49	
Ethylbenzene	**0.46 J**	5.0	0.20	1	03/26/21 17:49	
Isopropylbenzene (Cumene)	**0.51 J**	5.0	0.20	1	03/26/21 17:49	
Methyl Acetate	0.33 U	10	0.33	1	03/26/21 17:49	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/26/21 17:49	
Methylcyclohexane	0.20 U	10	0.20	1	03/26/21 17:49	
Styrene	0.20 U	5.0	0.20	1	03/26/21 17:49	
Tetrachloroethene (PCE)	**33**	5.0	0.21	1	03/26/21 17:49	
Toluene	**0.54 J**	5.0	0.20	1	03/26/21 17:49	
Trichloroethene (TCE)	**12**	5.0	0.20	1	03/26/21 17:49	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 16:50
Sample Matrix:	Water	**Date Received:**	03/17/21 09:55
Sample Name:	Drum 6-Phase III-Purge Water	**Units:**	ug/L
Lab Code:	R2102458-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichlorofluoromethane (CFC 11)	0.24	U	5.0	0.24	1	03/26/21 17:49	
Vinyl Chloride	**1.7**	**J**	5.0	0.20	1	03/26/21 17:49	
Xylenes, Total	**1.2**	**J**	5.0	0.23	1	03/26/21 17:49	
cis-1,2-Dichloroethene	**350**	**D**	13	0.58	2.5	03/27/21 20:32	
cis-1,3-Dichloropropene	0.20	U	5.0	0.20	1	03/26/21 17:49	
trans-1,2-Dichloroethene	**0.59**	**J**	5.0	0.20	1	03/26/21 17:49	
trans-1,3-Dichloropropene	0.23	U	5.0	0.23	1	03/26/21 17:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/26/21 17:49	
Dibromofluoromethane	96	80 - 116	03/26/21 17:49	
Toluene-d8	99	87 - 121	03/26/21 17:49	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 16:55
Sample Matrix:	Water	**Date Received:**	03/17/21 09:55
Sample Name:	Drum 1-PD1-Decon Water	**Units:**	ug/L
Lab Code:	R2102458-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	40	U	1000	40	200	03/27/21 20:10	
1,1,2,2-Tetrachloroethane	40	U	1000	40	200	03/27/21 20:10	
1,1,2-Trichloroethane	40	U	1000	40	200	03/27/21 20:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	1000	40	200	03/27/21 20:10	
1,1-Dichloroethane (1,1-DCA)	40	U	1000	40	200	03/27/21 20:10	
1,1-Dichloroethene (1,1-DCE)	40	U	1000	40	200	03/27/21 20:10	
1,2,4-Trichlorobenzene	68	U	1000	68	200	03/27/21 20:10	
1,2-Dibromo-3-chloropropane (DBCP)	90	U	1000	90	200	03/27/21 20:10	
1,2-Dibromoethane	40	U	1000	40	200	03/27/21 20:10	
1,2-Dichlorobenzene	40	U	1000	40	200	03/27/21 20:10	
1,2-Dichloroethane	40	U	1000	40	200	03/27/21 20:10	
1,2-Dichloropropane	40	U	1000	40	200	03/27/21 20:10	
1,3-Dichlorobenzene	40	U	1000	40	200	03/27/21 20:10	
1,4-Dichlorobenzene	40	U	1000	40	200	03/27/21 20:10	
2-Butanone (MEK)	160	U	2000	160	200	03/27/21 20:10	
2-Hexanone	40	U	2000	40	200	03/27/21 20:10	
4-Methyl-2-pentanone	40	U	2000	40	200	03/27/21 20:10	
Acetone	**14000**		2000	1000	200	03/27/21 20:10	
Benzene	40	U	1000	40	200	03/27/21 20:10	
Bromodichloromethane	40	U	1000	40	200	03/27/21 20:10	
Bromoform	50	U	1000	50	200	03/27/21 20:10	
Bromomethane	140	U	1000	140	200	03/27/21 20:10	
Carbon Disulfide	84	U	2000	84	200	03/27/21 20:10	
Carbon Tetrachloride	68	U	1000	68	200	03/27/21 20:10	
Chlorobenzene	40	U	1000	40	200	03/27/21 20:10	
Chloroethane	46	U	1000	46	200	03/27/21 20:10	
Chloroform	**90**	**J**	1000	48	200	03/27/21 20:10	
Chloromethane	56	U	1000	56	200	03/27/21 20:10	
Cyclohexane	52	U	2000	52	200	03/27/21 20:10	
Dibromochloromethane	40	U	1000	40	200	03/27/21 20:10	
Dichlorodifluoromethane (CFC 12)	42	U	1000	42	200	03/27/21 20:10	
Dichloromethane	130	U	1000	130	200	03/27/21 20:10	
Ethylbenzene	40	U	1000	40	200	03/27/21 20:10	
Isopropylbenzene (Cumene)	40	U	1000	40	200	03/27/21 20:10	
Methyl Acetate	66	U	2000	66	200	03/27/21 20:10	
Methyl tert-Butyl Ether	40	U	1000	40	200	03/27/21 20:10	
Methylcyclohexane	40	U	2000	40	200	03/27/21 20:10	
Styrene	40	U	1000	40	200	03/27/21 20:10	
Tetrachloroethene (PCE)	42	U	1000	42	200	03/27/21 20:10	
Toluene	40	U	1000	40	200	03/27/21 20:10	
Trichloroethene (TCE)	40	U	1000	40	200	03/27/21 20:10	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 16:55
Sample Matrix:	Water	**Date Received:**	03/17/21 09:55
Sample Name:	Drum 1-PD1-Decon Water	**Units:**	ug/L
Lab Code:	R2102458-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichlorofluoromethane (CFC 11)	48 U	1000	48	200	03/27/21 20:10	
Vinyl Chloride	40 U	1000	40	200	03/27/21 20:10	
Xylenes, Total	46 U	1000	46	200	03/27/21 20:10	
cis-1,2-Dichloroethene	46 U	1000	46	200	03/27/21 20:10	
cis-1,3-Dichloropropene	40 U	1000	40	200	03/27/21 20:10	
trans-1,2-Dichloroethene	40 U	1000	40	200	03/27/21 20:10	
trans-1,3-Dichloropropene	46 U	1000	46	200	03/27/21 20:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/27/21 20:10	
Dibromofluoromethane	95	80 - 116	03/27/21 20:10	
Toluene-d8	100	87 - 121	03/27/21 20:10	

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	30 U	70	30	1	03/24/21 05:05	3/22/21	
1,4-Dioxane	72 U	140	72	1	03/24/21 05:05	3/22/21	
2,3,4,6-Tetrachlorophenol	25 U	70	25	1	03/24/21 05:05	3/22/21	
2,4,5-Trichlorophenol	17 U	70	17	1	03/24/21 05:05	3/22/21	
2,4,6-Trichlorophenol	16 U	70	16	1	03/24/21 05:05	3/22/21	
2,4-Dichlorophenol	17 U	70	17	1	03/24/21 05:05	3/22/21	
2,4-Dimethylphenol	29 U	70	29	1	03/24/21 05:05	3/22/21	
2,4-Dinitrophenol	21 U	70	21	1	03/24/21 05:05	3/22/21	
2,4-Dinitrotoluene	32 U	70	32	1	03/24/21 05:05	3/22/21	
2,6-Dinitrotoluene	34 U	70	34	1	03/24/21 05:05	3/22/21	
2-Chloronaphthalene	28 U	70	28	1	03/24/21 05:05	3/22/21	
2-Chlorophenol	17 U	70	17	1	03/24/21 05:05	3/22/21	
2-Methylnaphthalene	**550**	14	4.1	1	03/24/21 05:05	3/22/21	
2-Methylphenol	16 U	70	16	1	03/24/21 05:05	3/22/21	
2-Nitroaniline	36 U	70	36	1	03/24/21 05:05	3/22/21	
2-Nitrophenol	17 U	70	17	1	03/24/21 05:05	3/22/21	
3,3'-Dichlorobenzidine	40 U	70	40	1	03/24/21 05:05	3/22/21	
3- and 4-Methylphenol Coelution	18 U	70	18	1	03/24/21 05:05	3/22/21	
3-Nitroaniline	16 U	70	16	1	03/24/21 05:05	3/22/21	
4,6-Dinitro-2-methylphenol	26 U	70	26	1	03/24/21 05:05	3/22/21	
4-Bromophenyl Phenyl Ether	30 U	70	30	1	03/24/21 05:05	3/22/21	
4-Chloro-3-methylphenol	31 U	70	31	1	03/24/21 05:05	3/22/21	
4-Chloroaniline	21 U	70	21	1	03/24/21 05:05	3/22/21	
4-Chlorophenyl Phenyl Ether	28 U	70	28	1	03/24/21 05:05	3/22/21	
4-Nitroaniline	36 U	70	36	1	03/24/21 05:05	3/22/21	
4-Nitrophenol	53 U	70	53	1	03/24/21 05:05	3/22/21	
Acenaphthene	**240**	14	3.5	1	03/24/21 05:05	3/22/21	
Acenaphthylene	3.9 U	14	3.9	1	03/24/21 05:05	3/22/21	
Acetophenone	24 U	70	24	1	03/24/21 05:05	3/22/21	
Anthracene	**130**	14	8.6	1	03/24/21 05:05	3/22/21	
Atrazine	19 U	70	19	1	03/24/21 05:05	3/22/21	
Benz(a)anthracene	11 U	14	11	1	03/24/21 05:05	3/22/21	
Benzaldehyde	31 U	70	31	1	03/24/21 05:05	3/22/21	
Benzo(a)pyrene	5.8 U	14	5.8	1	03/24/21 05:05	3/22/21	
Benzo(b)fluoranthene	7.5 U	14	7.5	1	03/24/21 05:05	3/22/21	
Benzo(g,h,i)perylene	6.0 U	14	6.0	1	03/24/21 05:05	3/22/21	
Benzo(k)fluoranthene	8.0 U	14	8.0	1	03/24/21 05:05	3/22/21	
Biphenyl	**300**	70	18	1	03/24/21 05:05	3/22/21	
2,2'-Oxybis(1-chloropropane)	30 U	70	30	1	03/24/21 05:05	3/22/21	
Bis(2-chloroethoxy)methane	28 U	70	28	1	03/24/21 05:05	3/22/21	
Bis(2-chloroethyl) Ether	28 U	70	28	1	03/24/21 05:05	3/22/21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Bis(2-ethylhexyl) Phthalate	**94**	**BJ**	1300	64	1	03/24/21 05:05	3/22/21	
Butyl Benzyl Phthalate	35	U	360	35	1	03/24/21 05:05	3/22/21	
Caprolactam	53	U	70	53	1	03/24/21 05:05	3/22/21	
Carbazole	**36**	**J**	70	30	1	03/24/21 05:05	3/22/21	
Chrysene	5.8	U	14	5.8	1	03/24/21 05:05	3/22/21	
Di-n-butyl Phthalate	34	U	1100	34	1	03/24/21 05:05	3/22/21	
Di-n-octyl Phthalate	62	U	360	62	1	03/24/21 05:05	3/22/21	
Dibenz(a,h)anthracene	5.8	U	14	5.8	1	03/24/21 05:05	3/22/21	
Dibenzofuran	6.2	U	14	6.2	1	03/24/21 05:05	3/22/21	
Diethyl Phthalate	38	U	420	38	1	03/24/21 05:05	3/22/21	
Dimethyl Phthalate	31	U	360	31	1	03/24/21 05:05	3/22/21	
Fluoranthene	11	U	14	11	1	03/24/21 05:05	3/22/21	
Fluorene	**470**		14	3.6	1	03/24/21 05:05	3/22/21	
Hexachlorobenzene	5.1	U	14	5.1	1	03/24/21 05:05	3/22/21	
Hexachlorobutadiene	28	U	70	28	1	03/24/21 05:05	3/22/21	
Hexachlorocyclopentadiene	49	U	70	49	1	03/24/21 05:05	3/22/21	
Hexachloroethane	25	U	70	25	1	03/24/21 05:05	3/22/21	
Indeno(1,2,3-cd)pyrene	6.2	U	14	6.2	1	03/24/21 05:05	3/22/21	
Isophorone	31	U	70	31	1	03/24/21 05:05	3/22/21	
N-Nitrosodi-n-propylamine	26	U	70	26	1	03/24/21 05:05	3/22/21	
N-Nitrosodiphenylamine	22	U	70	22	1	03/24/21 05:05	3/22/21	
Naphthalene	**160**		14	4.9	1	03/24/21 05:05	3/22/21	
Nitrobenzene	5.8	U	14	5.8	1	03/24/21 05:05	3/22/21	
Pentachlorophenol (PCP)	61	U	70	61	1	03/24/21 05:05	3/22/21	
Phenanthrene	**1000**		14	7.5	1	03/24/21 05:05	3/22/21	
Phenol	19	U	70	19	1	03/24/21 05:05	3/22/21	
Pyrene	**23**		14	6.8	1	03/24/21 05:05	3/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	87	19 - 107	03/24/21 05:05	
2-Fluorobiphenyl	79	10 - 115	03/24/21 05:05	
2-Fluorophenol	61	10 - 97	03/24/21 05:05	
Nitrobenzene-d5	122	10 - 130	03/24/21 05:05	
Phenol-d6	74	17 - 135	03/24/21 05:05	
Terphenyl-d14	90	10 - 130	03/24/21 05:05	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:30
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-West Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-002	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	27 U	63	27	1	03/24/21 06:33	3/22/21	
1,4-Dioxane	66 U	130	66	1	03/24/21 06:33	3/22/21	
2,3,4,6-Tetrachlorophenol	23 U	63	23	1	03/24/21 06:33	3/22/21	
2,4,5-Trichlorophenol	15 U	63	15	1	03/24/21 06:33	3/22/21	
2,4,6-Trichlorophenol	15 U	63	15	1	03/24/21 06:33	3/22/21	
2,4-Dichlorophenol	15 U	63	15	1	03/24/21 06:33	3/22/21	
2,4-Dimethylphenol	27 U	63	27	1	03/24/21 06:33	3/22/21	
2,4-Dinitrophenol	19 U	63	19	1	03/24/21 06:33	3/22/21	
2,4-Dinitrotoluene	29 U	63	29	1	03/24/21 06:33	3/22/21	
2,6-Dinitrotoluene	31 U	63	31	1	03/24/21 06:33	3/22/21	
2-Chloronaphthalene	25 U	63	25	1	03/24/21 06:33	3/22/21	
2-Chlorophenol	16 U	63	16	1	03/24/21 06:33	3/22/21	
2-Methylnaphthalene	**360**	13	3.7	1	03/24/21 06:33	3/22/21	
2-Methylphenol	15 U	63	15	1	03/24/21 06:33	3/22/21	
2-Nitroaniline	33 U	63	33	1	03/24/21 06:33	3/22/21	
2-Nitrophenol	15 U	63	15	1	03/24/21 06:33	3/22/21	
3,3'-Dichlorobenzidine	37 U	63	37	1	03/24/21 06:33	3/22/21	
3- and 4-Methylphenol Coelution	16 U	63	16	1	03/24/21 06:33	3/22/21	
3-Nitroaniline	15 U	63	15	1	03/24/21 06:33	3/22/21	
4,6-Dinitro-2-methylphenol	24 U	63	24	1	03/24/21 06:33	3/22/21	
4-Bromophenyl Phenyl Ether	27 U	63	27	1	03/24/21 06:33	3/22/21	
4-Chloro-3-methylphenol	29 U	63	29	1	03/24/21 06:33	3/22/21	
4-Chloroaniline	19 U	63	19	1	03/24/21 06:33	3/22/21	
4-Chlorophenyl Phenyl Ether	26 U	63	26	1	03/24/21 06:33	3/22/21	
4-Nitroaniline	33 U	63	33	1	03/24/21 06:33	3/22/21	
4-Nitrophenol	49 U	63	49	1	03/24/21 06:33	3/22/21	
Acenaphthene	**370**	13	3.2	1	03/24/21 06:33	3/22/21	
Acenaphthylene	3.5 U	13	3.5	1	03/24/21 06:33	3/22/21	
Acetophenone	22 U	63	22	1	03/24/21 06:33	3/22/21	
Anthracene	**160**	13	7.8	1	03/24/21 06:33	3/22/21	
Atrazine	17 U	63	17	1	03/24/21 06:33	3/22/21	
Benz(a)anthracene	9.6 U	13	9.6	1	03/24/21 06:33	3/22/21	
Benzaldehyde	29 U	63	29	1	03/24/21 06:33	3/22/21	
Benzo(a)pyrene	5.2 U	13	5.2	1	03/24/21 06:33	3/22/21	
Benzo(b)fluoranthene	6.8 U	13	6.8	1	03/24/21 06:33	3/22/21	
Benzo(g,h,i)perylene	5.4 U	13	5.4	1	03/24/21 06:33	3/22/21	
Benzo(k)fluoranthene	7.3 U	13	7.3	1	03/24/21 06:33	3/22/21	
Biphenyl	**380**	63	16	1	03/24/21 06:33	3/22/21	
2,2'-Oxybis(1-chloropropane)	28 U	63	28	1	03/24/21 06:33	3/22/21	
Bis(2-chloroethoxy)methane	26 U	63	26	1	03/24/21 06:33	3/22/21	
Bis(2-chloroethyl) Ether	26 U	63	26	1	03/24/21 06:33	3/22/21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:30
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-West Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-002	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Bis(2-ethylhexyl) Phthalate	58	U	1200	58	1	03/24/21 06:33	3/22/21	
Butyl Benzyl Phthalate	32	U	330	32	1	03/24/21 06:33	3/22/21	
Caprolactam	49	U	63	49	1	03/24/21 06:33	3/22/21	
Carbazole	**120**		63	27	1	03/24/21 06:33	3/22/21	
Chrysene	5.2	U	13	5.2	1	03/24/21 06:33	3/22/21	
Di-n-butyl Phthalate	31	U	960	31	1	03/24/21 06:33	3/22/21	
Di-n-octyl Phthalate	56	U	330	56	1	03/24/21 06:33	3/22/21	
Dibenz(a,h)anthracene	5.2	U	13	5.2	1	03/24/21 06:33	3/22/21	
Dibenzofuran	**340**		13	5.7	1	03/24/21 06:33	3/22/21	
Diethyl Phthalate	35	U	380	35	1	03/24/21 06:33	3/22/21	
Dimethyl Phthalate	28	U	330	28	1	03/24/21 06:33	3/22/21	
Fluoranthene	**12**	**J**	13	9.5	1	03/24/21 06:33	3/22/21	
Fluorene	**610**		13	3.3	1	03/24/21 06:33	3/22/21	
Hexachlorobenzene	4.6	U	13	4.6	1	03/24/21 06:33	3/22/21	
Hexachlorobutadiene	25	U	63	25	1	03/24/21 06:33	3/22/21	
Hexachlorocyclopentadiene	45	U	63	45	1	03/24/21 06:33	3/22/21	
Hexachloroethane	23	U	63	23	1	03/24/21 06:33	3/22/21	
Indeno(1,2,3-cd)pyrene	5.6	U	13	5.6	1	03/24/21 06:33	3/22/21	
Isophorone	28	U	63	28	1	03/24/21 06:33	3/22/21	
N-Nitrosodi-n-propylamine	24	U	63	24	1	03/24/21 06:33	3/22/21	
N-Nitrosodiphenylamine	20	U	63	20	1	03/24/21 06:33	3/22/21	
Naphthalene	**76**		13	4.5	1	03/24/21 06:33	3/22/21	
Nitrobenzene	5.2	U	13	5.2	1	03/24/21 06:33	3/22/21	
Pentachlorophenol (PCP)	55	U	63	55	1	03/24/21 06:33	3/22/21	
Phenanthrene	**1200**		13	6.8	1	03/24/21 06:33	3/22/21	
Phenol	17	U	63	17	1	03/24/21 06:33	3/22/21	
Pyrene	**29**		13	6.2	1	03/24/21 06:33	3/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	81	19 - 107	03/24/21 06:33	
2-Fluorobiphenyl	72	10 - 115	03/24/21 06:33	
2-Fluorophenol	58	10 - 97	03/24/21 06:33	
Nitrobenzene-d5	138 *	10 - 130	03/24/21 06:33	*
Phenol-d6	68	17 - 135	03/24/21 06:33	
Terphenyl-d14	80	10 - 130	03/24/21 06:33	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-FD-031621	**Units:**	ug/Kg
Lab Code:	R2102458-003	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	32 U	74	32	1	03/24/21 07:02	3/22/21	
1,4-Dioxane	77 U	150	77	1	03/24/21 07:02	3/22/21	
2,3,4,6-Tetrachlorophenol	27 U	74	27	1	03/24/21 07:02	3/22/21	
2,4,5-Trichlorophenol	18 U	74	18	1	03/24/21 07:02	3/22/21	
2,4,6-Trichlorophenol	17 U	74	17	1	03/24/21 07:02	3/22/21	
2,4-Dichlorophenol	18 U	74	18	1	03/24/21 07:02	3/22/21	
2,4-Dimethylphenol	31 U	74	31	1	03/24/21 07:02	3/22/21	
2,4-Dinitrophenol	22 U	74	22	1	03/24/21 07:02	3/22/21	
2,4-Dinitrotoluene	34 U	74	34	1	03/24/21 07:02	3/22/21	
2,6-Dinitrotoluene	36 U	74	36	1	03/24/21 07:02	3/22/21	
2-Chloronaphthalene	29 U	74	29	1	03/24/21 07:02	3/22/21	
2-Chlorophenol	19 U	74	19	1	03/24/21 07:02	3/22/21	
2-Methylnaphthalene	**130**	15	4.3	1	03/24/21 07:02	3/22/21	
2-Methylphenol	17 U	74	17	1	03/24/21 07:02	3/22/21	
2-Nitroaniline	38 U	74	38	1	03/24/21 07:02	3/22/21	
2-Nitrophenol	18 U	74	18	1	03/24/21 07:02	3/22/21	
3,3'-Dichlorobenzidine	43 U	74	43	1	03/24/21 07:02	3/22/21	
3- and 4-Methylphenol Coelution	19 U	74	19	1	03/24/21 07:02	3/22/21	
3-Nitroaniline	17 U	74	17	1	03/24/21 07:02	3/22/21	
4,6-Dinitro-2-methylphenol	28 U	74	28	1	03/24/21 07:02	3/22/21	
4-Bromophenyl Phenyl Ether	32 U	74	32	1	03/24/21 07:02	3/22/21	
4-Chloro-3-methylphenol	33 U	74	33	1	03/24/21 07:02	3/22/21	
4-Chloroaniline	22 U	74	22	1	03/24/21 07:02	3/22/21	
4-Chlorophenyl Phenyl Ether	30 U	74	30	1	03/24/21 07:02	3/22/21	
4-Nitroaniline	39 U	74	39	1	03/24/21 07:02	3/22/21	
4-Nitrophenol	57 U	74	57	1	03/24/21 07:02	3/22/21	
Acenaphthene	**290**	15	3.8	1	03/24/21 07:02	3/22/21	
Acenaphthylene	4.1 U	15	4.1	1	03/24/21 07:02	3/22/21	
Acetophenone	25 U	74	25	1	03/24/21 07:02	3/22/21	
Anthracene	**110**	15	9.1	1	03/24/21 07:02	3/22/21	
Atrazine	20 U	74	20	1	03/24/21 07:02	3/22/21	
Benz(a)anthracene	12 U	15	12	1	03/24/21 07:02	3/22/21	
Benzaldehyde	33 U	74	33	1	03/24/21 07:02	3/22/21	
Benzo(a)pyrene	6.1 U	15	6.1	1	03/24/21 07:02	3/22/21	
Benzo(b)fluoranthene	7.9 U	15	7.9	1	03/24/21 07:02	3/22/21	
Benzo(g,h,i)perylene	6.4 U	15	6.4	1	03/24/21 07:02	3/22/21	
Benzo(k)fluoranthene	8.6 U	15	8.6	1	03/24/21 07:02	3/22/21	
Biphenyl	**320**	74	19	1	03/24/21 07:02	3/22/21	
2,2'-Oxybis(1-chloropropane)	32 U	74	32	1	03/24/21 07:02	3/22/21	
Bis(2-chloroethoxy)methane	30 U	74	30	1	03/24/21 07:02	3/22/21	
Bis(2-chloroethyl) Ether	30 U	74	30	1	03/24/21 07:02	3/22/21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-FD-031621	**Units:**	ug/Kg
Lab Code:	R2102458-003	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Bis(2-ethylhexyl) Phthalate	68	U	1400	68	1	03/24/21 07:02	3/22/21	
Butyl Benzyl Phthalate	38	U	380	38	1	03/24/21 07:02	3/22/21	
Caprolactam	57	U	74	57	1	03/24/21 07:02	3/22/21	
Carbazole	**73**	**J**	74	32	1	03/24/21 07:02	3/22/21	
Chrysene	6.1	U	15	6.1	1	03/24/21 07:02	3/22/21	
Di-n-butyl Phthalate	37	U	1100	37	1	03/24/21 07:02	3/22/21	
Di-n-octyl Phthalate	66	U	380	66	1	03/24/21 07:02	3/22/21	
Dibenz(a,h)anthracene	6.1	U	15	6.1	1	03/24/21 07:02	3/22/21	
Dibenzofuran	**250**		15	6.6	1	03/24/21 07:02	3/22/21	
Diethyl Phthalate	41	U	450	41	1	03/24/21 07:02	3/22/21	
Dimethyl Phthalate	33	U	380	33	1	03/24/21 07:02	3/22/21	
Fluoranthene	12	U	15	12	1	03/24/21 07:02	3/22/21	
Fluorene	**450**		15	3.9	1	03/24/21 07:02	3/22/21	
Hexachlorobenzene	5.4	U	15	5.4	1	03/24/21 07:02	3/22/21	
Hexachlorobutadiene	30	U	74	30	1	03/24/21 07:02	3/22/21	
Hexachlorocyclopentadiene	52	U	74	52	1	03/24/21 07:02	3/22/21	
Hexachloroethane	27	U	74	27	1	03/24/21 07:02	3/22/21	
Indeno(1,2,3-cd)pyrene	6.6	U	15	6.6	1	03/24/21 07:02	3/22/21	
Isophorone	33	U	74	33	1	03/24/21 07:02	3/22/21	
N-Nitrosodi-n-propylamine	28	U	74	28	1	03/24/21 07:02	3/22/21	
N-Nitrosodiphenylamine	24	U	74	24	1	03/24/21 07:02	3/22/21	
Naphthalene	**38**		15	5.2	1	03/24/21 07:02	3/22/21	
Nitrobenzene	6.1	U	15	6.1	1	03/24/21 07:02	3/22/21	
Pentachlorophenol (PCP)	65	U	74	65	1	03/24/21 07:02	3/22/21	
Phenanthrene	**980**		15	7.9	1	03/24/21 07:02	3/22/21	
Phenol	20	U	74	20	1	03/24/21 07:02	3/22/21	
Pyrene	**18**		15	7.3	1	03/24/21 07:02	3/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	87	19 - 107	03/24/21 07:02	
2-Fluorobiphenyl	84	10 - 115	03/24/21 07:02	
2-Fluorophenol	81	10 - 97	03/24/21 07:02	
Nitrobenzene-d5	116	10 - 130	03/24/21 07:02	
Phenol-d6	83	17 - 135	03/24/21 07:02	
Terphenyl-d14	87	10 - 130	03/24/21 07:02	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-East Side Wall-8	**Units:**	ug/Kg
Lab Code:	R2102458-004	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	310	U	740	310	10	03/25/21 17:40	3/22/21	
1,4-Dioxane	770	U	1500	770	10	03/25/21 17:40	3/22/21	
2,3,4,6-Tetrachlorophenol	270	U	740	270	10	03/25/21 17:40	3/22/21	
2,4,5-Trichlorophenol	180	U	740	180	10	03/25/21 17:40	3/22/21	
2,4,6-Trichlorophenol	170	U	740	170	10	03/25/21 17:40	3/22/21	
2,4-Dichlorophenol	180	U	740	180	10	03/25/21 17:40	3/22/21	
2,4-Dimethylphenol	310	U	740	310	10	03/25/21 17:40	3/22/21	
2,4-Dinitrophenol	220	U	740	220	10	03/25/21 17:40	3/22/21	
2,4-Dinitrotoluene	340	U	740	340	10	03/25/21 17:40	3/22/21	
2,6-Dinitrotoluene	360	U	740	360	10	03/25/21 17:40	3/22/21	
2-Chloronaphthalene	290	U	740	290	10	03/25/21 17:40	3/22/21	
2-Chlorophenol	180	U	740	180	10	03/25/21 17:40	3/22/21	
2-Methylnaphthalene	**82000**	**D**	1500	430	100	04/29/21 18:58	3/22/21	
2-Methylphenol	170	U	740	170	10	03/25/21 17:40	3/22/21	
2-Nitroaniline	380	U	740	380	10	03/25/21 17:40	3/22/21	
2-Nitrophenol	180	U	740	180	10	03/25/21 17:40	3/22/21	
3,3'-Dichlorobenzidine	430	U	740	430	10	03/25/21 17:40	3/22/21	
3- and 4-Methylphenol Coelution	190	U	740	190	10	03/25/21 17:40	3/22/21	
3-Nitroaniline	170	U	740	170	10	03/25/21 17:40	3/22/21	
4,6-Dinitro-2-methylphenol	270	U	740	270	10	03/25/21 17:40	3/22/21	
4-Bromophenyl Phenyl Ether	310	U	740	310	10	03/25/21 17:40	3/22/21	
4-Chloro-3-methylphenol	330	U	740	330	10	03/25/21 17:40	3/22/21	
4-Chloroaniline	220	U	740	220	10	03/25/21 17:40	3/22/21	
4-Chlorophenyl Phenyl Ether	300	U	740	300	10	03/25/21 17:40	3/22/21	
4-Nitroaniline	380	U	740	380	10	03/25/21 17:40	3/22/21	
4-Nitrophenol	570	U	740	570	10	03/25/21 17:40	3/22/21	
Acenaphthene	**3400**		150	37	10	03/25/21 17:40	3/22/21	
Acenaphthylene	**740**		150	41	10	03/25/21 17:40	3/22/21	
Acetophenone	250	U	740	250	10	03/25/21 17:40	3/22/21	
Anthracene	**1200**		150	91	10	03/25/21 17:40	3/22/21	
Atrazine	200	U	740	200	10	03/25/21 17:40	3/22/21	
Benz(a)anthracene	120	U	150	120	10	03/25/21 17:40	3/22/21	
Benzaldehyde	330	U	740	330	10	03/25/21 17:40	3/22/21	
Benzo(a)pyrene	61	U	150	61	10	03/25/21 17:40	3/22/21	
Benzo(b)fluoranthene	79	U	150	79	10	03/25/21 17:40	3/22/21	
Benzo(g,h,i)perylene	63	U	150	63	10	03/25/21 17:40	3/22/21	
Benzo(k)fluoranthene	85	U	150	85	10	03/25/21 17:40	3/22/21	
Biphenyl	**3300**		740	190	10	03/25/21 17:40	3/22/21	
2,2'-Oxybis(1-chloropropane)	320	U	740	320	10	03/25/21 17:40	3/22/21	
Bis(2-chloroethoxy)methane	300	U	740	300	10	03/25/21 17:40	3/22/21	
Bis(2-chloroethyl) Ether	300	U	740	300	10	03/25/21 17:40	3/22/21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-East Side Wall-8	**Units:**	ug/Kg
Lab Code:	R2102458-004	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Bis(2-ethylhexyl) Phthalate	**6600**	**J**	13000	680	10	03/25/21 17:40	3/22/21	
Butyl Benzyl Phthalate	370	U	3800	370	10	03/25/21 17:40	3/22/21	
Caprolactam	570	U	740	570	10	03/25/21 17:40	3/22/21	
Carbazole	320	U	740	320	10	03/25/21 17:40	3/22/21	
Chrysene	61	U	150	61	10	03/25/21 17:40	3/22/21	
Di-n-butyl Phthalate	360	U	11000	360	10	03/25/21 17:40	3/22/21	
Di-n-octyl Phthalate	650	U	3800	650	10	03/25/21 17:40	3/22/21	
Dibenz(a,h)anthracene	61	U	150	61	10	03/25/21 17:40	3/22/21	
Dibenzofuran	**2700**		150	66	10	03/25/21 17:40	3/22/21	
Diethyl Phthalate	410	U	4500	410	10	03/25/21 17:40	3/22/21	
Dimethyl Phthalate	330	U	3800	330	10	03/25/21 17:40	3/22/21	
Fluoranthene	110	U	150	110	10	03/25/21 17:40	3/22/21	
Fluorene	**5200**		150	39	10	03/25/21 17:40	3/22/21	
Hexachlorobenzene	54	U	150	54	10	03/25/21 17:40	3/22/21	
Hexachlorobutadiene	300	U	740	300	10	03/25/21 17:40	3/22/21	
Hexachlorocyclopentadiene	520	U	740	520	10	03/25/21 17:40	3/22/21	
Hexachloroethane	260	U	740	260	10	03/25/21 17:40	3/22/21	
Indeno(1,2,3-cd)pyrene	66	U	150	66	10	03/25/21 17:40	3/22/21	
Isophorone	330	U	740	330	10	03/25/21 17:40	3/22/21	
N-Nitrosodi-n-propylamine	270	U	740	270	10	03/25/21 17:40	3/22/21	
N-Nitrosodiphenylamine	240	U	740	240	10	03/25/21 17:40	3/22/21	
Naphthalene	**58000**	**D**	1500	520	100	04/29/21 18:58	3/22/21	
Nitrobenzene	61	U	150	61	10	03/25/21 17:40	3/22/21	
Pentachlorophenol (PCP)	650	U	740	650	10	03/25/21 17:40	3/22/21	
Phenanthrene	**11000**		150	79	10	03/25/21 17:40	3/22/21	
Phenol	200	U	740	200	10	03/25/21 17:40	3/22/21	
Pyrene	**250**		150	72	10	03/25/21 17:40	3/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	88	19 - 107	03/25/21 17:40	
2-Fluorobiphenyl	97	10 - 115	03/25/21 17:40	
2-Fluorophenol	56	10 - 97	03/25/21 17:40	
Nitrobenzene-d5	8492 *	10 - 130	03/25/21 17:40	*
Phenol-d6	5140 *	17 - 135	03/25/21 17:40	*
Terphenyl-d14	102	10 - 130	03/25/21 17:40	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:15
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Side Wall-9	**Units:**	ug/Kg
Lab Code:	R2102458-005	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	310	U	730	310	10	03/25/21 18:10	3/22/21	
1,4-Dioxane	760	U	1500	760	10	03/25/21 18:10	3/22/21	
2,3,4,6-Tetrachlorophenol	260	U	730	260	10	03/25/21 18:10	3/22/21	
2,4,5-Trichlorophenol	170	U	730	170	10	03/25/21 18:10	3/22/21	
2,4,6-Trichlorophenol	170	U	730	170	10	03/25/21 18:10	3/22/21	
2,4-Dichlorophenol	180	U	730	180	10	03/25/21 18:10	3/22/21	
2,4-Dimethylphenol	310	U	730	310	10	03/25/21 18:10	3/22/21	
2,4-Dinitrophenol	220	U	730	220	10	03/25/21 18:10	3/22/21	
2,4-Dinitrotoluene	340	U	730	340	10	03/25/21 18:10	3/22/21	
2,6-Dinitrotoluene	350	U	730	350	10	03/25/21 18:10	3/22/21	
2-Chloronaphthalene	290	U	730	290	10	03/25/21 18:10	3/22/21	
2-Chlorophenol	180	U	730	180	10	03/25/21 18:10	3/22/21	
2-Methylnaphthalene	**6800**		150	43	10	03/25/21 18:10	3/22/21	
2-Methylphenol	170	U	730	170	10	03/25/21 18:10	3/22/21	
2-Nitroaniline	380	U	730	380	10	03/25/21 18:10	3/22/21	
2-Nitrophenol	180	U	730	180	10	03/25/21 18:10	3/22/21	
3,3'-Dichlorobenzidine	420	U	730	420	10	03/25/21 18:10	3/22/21	
3- and 4-Methylphenol Coelution	190	U	730	190	10	03/25/21 18:10	3/22/21	
3-Nitroaniline	170	U	730	170	10	03/25/21 18:10	3/22/21	
4,6-Dinitro-2-methylphenol	270	U	730	270	10	03/25/21 18:10	3/22/21	
4-Bromophenyl Phenyl Ether	310	U	730	310	10	03/25/21 18:10	3/22/21	
4-Chloro-3-methylphenol	330	U	730	330	10	03/25/21 18:10	3/22/21	
4-Chloroaniline	220	U	730	220	10	03/25/21 18:10	3/22/21	
4-Chlorophenyl Phenyl Ether	300	U	730	300	10	03/25/21 18:10	3/22/21	
4-Nitroaniline	380	U	730	380	10	03/25/21 18:10	3/22/21	
4-Nitrophenol	560	U	730	560	10	03/25/21 18:10	3/22/21	
Acenaphthene	**430**		150	37	10	03/25/21 18:10	3/22/21	
Acenaphthylene	**120**	**J**	150	40	10	03/25/21 18:10	3/22/21	
Acetophenone	250	U	730	250	10	03/25/21 18:10	3/22/21	
Anthracene	**180**		150	90	10	03/25/21 18:10	3/22/21	
Atrazine	200	U	730	200	10	03/25/21 18:10	3/22/21	
Benz(a)anthracene	120	U	150	120	10	03/25/21 18:10	3/22/21	
Benzaldehyde	330	U	730	330	10	03/25/21 18:10	3/22/21	
Benzo(a)pyrene	60	U	150	60	10	03/25/21 18:10	3/22/21	
Benzo(b)fluoranthene	78	U	150	78	10	03/25/21 18:10	3/22/21	
Benzo(g,h,i)perylene	63	U	150	63	10	03/25/21 18:10	3/22/21	
Benzo(k)fluoranthene	84	U	150	84	10	03/25/21 18:10	3/22/21	
Biphenyl	**610**	**J**	730	190	10	03/25/21 18:10	3/22/21	
2,2'-Oxybis(1-chloropropane)	320	U	730	320	10	03/25/21 18:10	3/22/21	
Bis(2-chloroethoxy)methane	300	U	730	300	10	03/25/21 18:10	3/22/21	
Bis(2-chloroethyl) Ether	300	U	730	300	10	03/25/21 18:10	3/22/21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:15
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Side Wall-9	**Units:**	ug/Kg
Lab Code:	R2102458-005	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Bis(2-ethylhexyl) Phthalate	**2500**	**J**	13000	670	10	03/25/21 18:10	3/22/21	
Butyl Benzyl Phthalate	370	U	3800	370	10	03/25/21 18:10	3/22/21	
Caprolactam	560	U	730	560	10	03/25/21 18:10	3/22/21	
Carbazole	310	U	730	310	10	03/25/21 18:10	3/22/21	
Chrysene	60	U	150	60	10	03/25/21 18:10	3/22/21	
Di-n-butyl Phthalate	360	U	11000	360	10	03/25/21 18:10	3/22/21	
Di-n-octyl Phthalate	650	U	3800	650	10	03/25/21 18:10	3/22/21	
Dibenz(a,h)anthracene	60	U	150	60	10	03/25/21 18:10	3/22/21	
Dibenzofuran	**430**		150	65	10	03/25/21 18:10	3/22/21	
Diethyl Phthalate	400	U	4400	400	10	03/25/21 18:10	3/22/21	
Dimethyl Phthalate	330	U	3800	330	10	03/25/21 18:10	3/22/21	
Fluoranthene	110	U	150	110	10	03/25/21 18:10	3/22/21	
Fluorene	**1000**		150	38	10	03/25/21 18:10	3/22/21	
Hexachlorobenzene	53	U	150	53	10	03/25/21 18:10	3/22/21	
Hexachlorobutadiene	290	U	730	290	10	03/25/21 18:10	3/22/21	
Hexachlorocyclopentadiene	520	U	730	520	10	03/25/21 18:10	3/22/21	
Hexachloroethane	260	U	730	260	10	03/25/21 18:10	3/22/21	
Indeno(1,2,3-cd)pyrene	65	U	150	65	10	03/25/21 18:10	3/22/21	
Isophorone	320	U	730	320	10	03/25/21 18:10	3/22/21	
N-Nitrosodi-n-propylamine	270	U	730	270	10	03/25/21 18:10	3/22/21	
N-Nitrosodiphenylamine	240	U	730	240	10	03/25/21 18:10	3/22/21	
Naphthalene	**10000**		150	52	10	03/25/21 18:10	3/22/21	
Nitrobenzene	60	U	150	60	10	03/25/21 18:10	3/22/21	
Pentachlorophenol (PCP)	640	U	730	640	10	03/25/21 18:10	3/22/21	
Phenanthrene	**1900**		150	78	10	03/25/21 18:10	3/22/21	
Phenol	200	U	730	200	10	03/25/21 18:10	3/22/21	
Pyrene	72	U	150	72	10	03/25/21 18:10	3/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	115 *	19 - 107	03/25/21 18:10	*
2-Fluorobiphenyl	91	10 - 115	03/25/21 18:10	
2-Fluorophenol	68	10 - 97	03/25/21 18:10	
Nitrobenzene-d5	1692 *	10 - 130	03/25/21 18:10	*
Phenol-d6	249 *	17 - 135	03/25/21 18:10	*
Terphenyl-d14	95	10 - 130	03/25/21 18:10	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Bottom-10	**Units:**	ug/Kg
Lab Code:	R2102458-006	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	29 U	69	29	1	03/24/21 08:31	3/22/21	
1,4-Dioxane	71 U	140	71	1	03/24/21 08:31	3/22/21	
2,3,4,6-Tetrachlorophenol	25 U	69	25	1	03/24/21 08:31	3/22/21	
2,4,5-Trichlorophenol	16 U	69	16	1	03/24/21 08:31	3/22/21	
2,4,6-Trichlorophenol	16 U	69	16	1	03/24/21 08:31	3/22/21	
2,4-Dichlorophenol	17 U	69	17	1	03/24/21 08:31	3/22/21	
2,4-Dimethylphenol	29 U	69	29	1	03/24/21 08:31	3/22/21	
2,4-Dinitrophenol	21 U	69	21	1	03/24/21 08:31	3/22/21	
2,4-Dinitrotoluene	31 U	69	31	1	03/24/21 08:31	3/22/21	
2,6-Dinitrotoluene	33 U	69	33	1	03/24/21 08:31	3/22/21	
2-Chloronaphthalene	27 U	69	27	1	03/24/21 08:31	3/22/21	
2-Chlorophenol	17 U	69	17	1	03/24/21 08:31	3/22/21	
2-Methylnaphthalene	**1100**	14	4.0	1	03/24/21 08:31	3/22/21	
2-Methylphenol	16 U	69	16	1	03/24/21 08:31	3/22/21	
2-Nitroaniline	35 U	69	35	1	03/24/21 08:31	3/22/21	
2-Nitrophenol	17 U	69	17	1	03/24/21 08:31	3/22/21	
3,3'-Dichlorobenzidine	39 U	69	39	1	03/24/21 08:31	3/22/21	
3- and 4-Methylphenol Coelution	18 U	69	18	1	03/24/21 08:31	3/22/21	
3-Nitroaniline	16 U	69	16	1	03/24/21 08:31	3/22/21	
4,6-Dinitro-2-methylphenol	25 U	69	25	1	03/24/21 08:31	3/22/21	
4-Bromophenyl Phenyl Ether	29 U	69	29	1	03/24/21 08:31	3/22/21	
4-Chloro-3-methylphenol	31 U	69	31	1	03/24/21 08:31	3/22/21	
4-Chloroaniline	20 U	69	20	1	03/24/21 08:31	3/22/21	
4-Chlorophenyl Phenyl Ether	28 U	69	28	1	03/24/21 08:31	3/22/21	
4-Nitroaniline	36 U	69	36	1	03/24/21 08:31	3/22/21	
4-Nitrophenol	52 U	69	52	1	03/24/21 08:31	3/22/21	
Acenaphthene	**120**	14	3.5	1	03/24/21 08:31	3/22/21	
Acenaphthylene	3.8 U	14	3.8	1	03/24/21 08:31	3/22/21	
Acetophenone	23 U	69	23	1	03/24/21 08:31	3/22/21	
Anthracene	**62**	14	8.4	1	03/24/21 08:31	3/22/21	
Atrazine	19 U	69	19	1	03/24/21 08:31	3/22/21	
Benz(a)anthracene	11 U	14	11	1	03/24/21 08:31	3/22/21	
Benzaldehyde	31 U	69	31	1	03/24/21 08:31	3/22/21	
Benzo(a)pyrene	5.7 U	14	5.7	1	03/24/21 08:31	3/22/21	
Benzo(b)fluoranthene	7.3 U	14	7.3	1	03/24/21 08:31	3/22/21	
Benzo(g,h,i)perylene	5.9 U	14	5.9	1	03/24/21 08:31	3/22/21	
Benzo(k)fluoranthene	7.9 U	14	7.9	1	03/24/21 08:31	3/22/21	
Biphenyl	**150**	69	18	1	03/24/21 08:31	3/22/21	
2,2'-Oxybis(1-chloropropane)	30 U	69	30	1	03/24/21 08:31	3/22/21	
Bis(2-chloroethoxy)methane	28 U	69	28	1	03/24/21 08:31	3/22/21	
Bis(2-chloroethyl) Ether	28 U	69	28	1	03/24/21 08:31	3/22/21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Bottom-10	**Units:**	ug/Kg
Lab Code:	R2102458-006	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Bis(2-ethylhexyl) Phthalate	**730**	**J**	1200	63	1	03/24/21 08:31	3/22/21	
Butyl Benzyl Phthalate	35	U	350	35	1	03/24/21 08:31	3/22/21	
Caprolactam	52	U	69	52	1	03/24/21 08:31	3/22/21	
Carbazole	**38**	**J**	69	29	1	03/24/21 08:31	3/22/21	
Chrysene	**10**	**J**	14	5.7	1	03/24/21 08:31	3/22/21	
Di-n-butyl Phthalate	**43**	**J**	1000	34	1	03/24/21 08:31	3/22/21	
Di-n-octyl Phthalate	61	U	350	61	1	03/24/21 08:31	3/22/21	
Dibenz(a,h)anthracene	5.7	U	14	5.7	1	03/24/21 08:31	3/22/21	
Dibenzofuran	**110**		14	6.1	1	03/24/21 08:31	3/22/21	
Diethyl Phthalate	38	U	420	38	1	03/24/21 08:31	3/22/21	
Dimethyl Phthalate	30	U	350	30	1	03/24/21 08:31	3/22/21	
Fluoranthene	11	U	14	11	1	03/24/21 08:31	3/22/21	
Fluorene	**230**		14	3.6	1	03/24/21 08:31	3/22/21	
Hexachlorobenzene	5.0	U	14	5.0	1	03/24/21 08:31	3/22/21	
Hexachlorobutadiene	27	U	69	27	1	03/24/21 08:31	3/22/21	
Hexachlorocyclopentadiene	48	U	69	48	1	03/24/21 08:31	3/22/21	
Hexachloroethane	24	U	69	24	1	03/24/21 08:31	3/22/21	
Indeno(1,2,3-cd)pyrene	6.1	U	14	6.1	1	03/24/21 08:31	3/22/21	
Isophorone	30	U	69	30	1	03/24/21 08:31	3/22/21	
N-Nitrosodi-n-propylamine	25	U	69	25	1	03/24/21 08:31	3/22/21	
N-Nitrosodiphenylamine	22	U	69	22	1	03/24/21 08:31	3/22/21	
Naphthalene	**1400**		14	4.8	1	03/24/21 08:31	3/22/21	
Nitrobenzene	5.7	U	14	5.7	1	03/24/21 08:31	3/22/21	
Pentachlorophenol (PCP)	60	U	69	60	1	03/24/21 08:31	3/22/21	
Phenanthrene	**520**		14	7.3	1	03/24/21 08:31	3/22/21	
Phenol	19	U	69	19	1	03/24/21 08:31	3/22/21	
Pyrene	**13**	**J**	14	6.7	1	03/24/21 08:31	3/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	19 - 107	03/24/21 08:31	
2-Fluorobiphenyl	60	10 - 115	03/24/21 08:31	
2-Fluorophenol	47	10 - 97	03/24/21 08:31	
Nitrobenzene-d5	404 *	10 - 130	03/24/21 08:31	*
Phenol-d6	58	17 - 135	03/24/21 08:31	
Terphenyl-d14	85	10 - 130	03/24/21 08:31	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Bottom-11	**Units:**	ug/Kg
Lab Code:	R2102458-007	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	320	U	760	320	10	03/25/21 18:40	3/22/21	
1,4-Dioxane	790	U	1600	790	10	03/25/21 18:40	3/22/21	
2,3,4,6-Tetrachlorophenol	280	U	760	280	10	03/25/21 18:40	3/22/21	
2,4,5-Trichlorophenol	180	U	760	180	10	03/25/21 18:40	3/22/21	
2,4,6-Trichlorophenol	180	U	760	180	10	03/25/21 18:40	3/22/21	
2,4-Dichlorophenol	190	U	760	190	10	03/25/21 18:40	3/22/21	
2,4-Dimethylphenol	320	U	760	320	10	03/25/21 18:40	3/22/21	
2,4-Dinitrophenol	230	U	760	230	10	03/25/21 18:40	3/22/21	
2,4-Dinitrotoluene	350	U	760	350	10	03/25/21 18:40	3/22/21	
2,6-Dinitrotoluene	370	U	760	370	10	03/25/21 18:40	3/22/21	
2-Chloronaphthalene	300	U	760	300	10	03/25/21 18:40	3/22/21	
2-Chlorophenol	190	U	760	190	10	03/25/21 18:40	3/22/21	
2-Methylnaphthalene	**72000**	**D**	1500	450	100	04/29/21 19:26	3/22/21	
2-Methylphenol	180	U	760	180	10	03/25/21 18:40	3/22/21	
2-Nitroaniline	390	U	760	390	10	03/25/21 18:40	3/22/21	
2-Nitrophenol	190	U	760	190	10	03/25/21 18:40	3/22/21	
3,3'-Dichlorobenzidine	440	U	760	440	10	03/25/21 18:40	3/22/21	
3- and 4-Methylphenol Coelution	190	U	760	190	10	03/25/21 18:40	3/22/21	
3-Nitroaniline	180	U	760	180	10	03/25/21 18:40	3/22/21	
4,6-Dinitro-2-methylphenol	280	U	760	280	10	03/25/21 18:40	3/22/21	
4-Bromophenyl Phenyl Ether	330	U	760	330	10	03/25/21 18:40	3/22/21	
4-Chloro-3-methylphenol	340	U	760	340	10	03/25/21 18:40	3/22/21	
4-Chloroaniline	230	U	760	230	10	03/25/21 18:40	3/22/21	
4-Chlorophenyl Phenyl Ether	310	U	760	310	10	03/25/21 18:40	3/22/21	
4-Nitroaniline	400	U	760	400	10	03/25/21 18:40	3/22/21	
4-Nitrophenol	580	U	760	580	10	03/25/21 18:40	3/22/21	
Acenaphthene	**2900**		150	39	10	03/25/21 18:40	3/22/21	
Acenaphthylene	42	U	150	42	10	03/25/21 18:40	3/22/21	
Acetophenone	260	U	760	260	10	03/25/21 18:40	3/22/21	
Anthracene	**1100**		150	94	10	03/25/21 18:40	3/22/21	
Atrazine	210	U	760	210	10	03/25/21 18:40	3/22/21	
Benz(a)anthracene	120	U	150	120	10	03/25/21 18:40	3/22/21	
Benzaldehyde	340	U	760	340	10	03/25/21 18:40	3/22/21	
Benzo(a)pyrene	63	U	150	63	10	03/25/21 18:40	3/22/21	
Benzo(b)fluoranthene	82	U	150	82	10	03/25/21 18:40	3/22/21	
Benzo(g,h,i)perylene	65	U	150	65	10	03/25/21 18:40	3/22/21	
Benzo(k)fluoranthene	88	U	150	88	10	03/25/21 18:40	3/22/21	
Biphenyl	190	U	760	190	10	03/25/21 18:40	3/22/21	
2,2'-Oxybis(1-chloropropane)	330	U	760	330	10	03/25/21 18:40	3/22/21	
Bis(2-chloroethoxy)methane	310	U	760	310	10	03/25/21 18:40	3/22/21	
Bis(2-chloroethyl) Ether	310	U	760	310	10	03/25/21 18:40	3/22/21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Bottom-11	**Units:**	ug/Kg
Lab Code:	R2102458-007	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Bis(2-ethylhexyl) Phthalate	**4500**	**J**	14000	700	10	03/25/21 18:40	3/22/21	
Butyl Benzyl Phthalate	390	U	3900	390	10	03/25/21 18:40	3/22/21	
Caprolactam	580	U	760	580	10	03/25/21 18:40	3/22/21	
Carbazole	330	U	760	330	10	03/25/21 18:40	3/22/21	
Chrysene	**100**	**J**	150	63	10	03/25/21 18:40	3/22/21	
Di-n-butyl Phthalate	380	U	12000	380	10	03/25/21 18:40	3/22/21	
Di-n-octyl Phthalate	670	U	3900	670	10	03/25/21 18:40	3/22/21	
Dibenz(a,h)anthracene	63	U	150	63	10	03/25/21 18:40	3/22/21	
Dibenzofuran	**2200**		150	68	10	03/25/21 18:40	3/22/21	
Diethyl Phthalate	420	U	4600	420	10	03/25/21 18:40	3/22/21	
Dimethyl Phthalate	340	U	3900	340	10	03/25/21 18:40	3/22/21	
Fluoranthene	120	U	150	120	10	03/25/21 18:40	3/22/21	
Fluorene	**4300**		150	40	10	03/25/21 18:40	3/22/21	
Hexachlorobenzene	55	U	150	55	10	03/25/21 18:40	3/22/21	
Hexachlorobutadiene	310	U	760	310	10	03/25/21 18:40	3/22/21	
Hexachlorocyclopentadiene	540	U	760	540	10	03/25/21 18:40	3/22/21	
Hexachloroethane	270	U	760	270	10	03/25/21 18:40	3/22/21	
Indeno(1,2,3-cd)pyrene	68	U	150	68	10	03/25/21 18:40	3/22/21	
Isophorone	340	U	760	340	10	03/25/21 18:40	3/22/21	
N-Nitrosodi-n-propylamine	280	U	760	280	10	03/25/21 18:40	3/22/21	
N-Nitrosodiphenylamine	250	U	760	250	10	03/25/21 18:40	3/22/21	
Naphthalene	**48000**	**D**	1500	540	100	04/29/21 19:26	3/22/21	
Nitrobenzene	63	U	150	63	10	03/25/21 18:40	3/22/21	
Pentachlorophenol (PCP)	670	U	760	670	10	03/25/21 18:40	3/22/21	
Phenanthrene	**9100**		150	82	10	03/25/21 18:40	3/22/21	
Phenol	210	U	760	210	10	03/25/21 18:40	3/22/21	
Pyrene	**190**		150	75	10	03/25/21 18:40	3/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	19 - 107	03/25/21 18:40	
2-Fluorobiphenyl	87	10 - 115	03/25/21 18:40	
2-Fluorophenol	71	10 - 97	03/25/21 18:40	
Nitrobenzene-d5	2976 *	10 - 130	03/25/21 18:40	*
Phenol-d6	279 *	17 - 135	03/25/21 18:40	*
Terphenyl-d14	85	10 - 130	03/25/21 18:40	

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Sidewall-8	**Basis:**	As Received
Lab Code:	R2102458-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.8**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 10:30
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-West Sidewall-8	**Basis:**	As Received
Lab Code:	R2102458-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**83.6**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-FD-031621	**Basis:**	As Received
Lab Code:	R2102458-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**83.6**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-East Side Wall-8	**Basis:**	As Received
Lab Code:	R2102458-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**85.3**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:15
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Side Wall-9	**Basis:**	As Received
Lab Code:	R2102458-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**83.4**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-North Bottom-10	**Basis:**	As Received
Lab Code:	R2102458-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**84.6**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21 13:25
Sample Matrix:	Soil	**Date Received:**	03/17/21 09:55
Sample Name:	401075-South Bottom-11	**Basis:**	As Received
Lab Code:	R2102458-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**79.7**	Percent	-	1	03/23/21 06:05	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 31-154	Dibromofluoromethane 63-138	Toluene-d8 66-138
401075-South Sidewall-8	R2102458-001	102	97	108
401075-West Sidewall-8	R2102458-002	101	96	106
401075-FD-031621	R2102458-003	115	95	103
401075-East Side Wall-8	R2102458-004	118	96	106
401075-North Side Wall-9	R2102458-005	123	94	105
401075-North Bottom-10	R2102458-006	121	92	102
401075-South Bottom-11	R2102458-007	127	93	104
Method Blank	RQ2103275-05	112	92	101
Lab Control Sample	RQ2103275-03	117	99	102
Duplicate Lab Control Sample	RQ2103275-04	118	98	102
401075-South Sidewall-8 MS	RQ2103277-05	106	102	108
401075-South Sidewall-8 DMS	RQ2103277-06	107	102	107
Method Blank	RQ2103277-04	97	96	106
Lab Control Sample	RQ2103277-03	103	101	107

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QA/QC Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21
		Date Analyzed:	03/30/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unp

Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2103277-05			RQ2103277-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	1.3 U	286	302	95	296	302	98	44-124	3	30
1,1,2,2-Tetrachloroethane	2.7 U	325	302	108	372	302	123	41-155	13	30
1,1,2-Trichloroethane	1.3 U	303	302	100	305	302	101	48-124	<1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3 U	285	302	94	289	302	96	40-117	2	30
1,1-Dichloroethane (1,1-DCA)	1.3 U	313	302	104	320	302	106	41-138	2	30
1,1-Dichloroethene (1,1-DCE)	1.8 U	380	302	126 *	393	302	130 *	46-124	3	30
1,2,3-Trichlorobenzene	3.2 U	241	302	80	226	302	75	10-169	6	30
1,2,4-Trichlorobenzene	2.6 U	245	302	81	229	302	76	10-169	6	30
1,2-Dibromo-3-chloropropane (DBCP)	4.6 U	249	302	82	254	302	84	30-136	2	30
1,2-Dibromoethane	1.3 U	291	302	96	291	302	96	38-129	<1	30
1,2-Dichlorobenzene	1.3 U	276	302	92	286	302	95	11-152	3	30
1,2-Dichloroethane	1.3 U	288	302	95	293	302	97	49-119	2	30
1,2-Dichloropropane	1.3 U	289	302	96	294	302	97	60-126	1	30
1,3-Dichlorobenzene	1.3 U	265	302	88	277	302	92	13-151	4	30
1,4-Dichlorobenzene	1.4 U	266	302	88	274	302	91	10-151	3	30
1,4-Dioxane	130 U	6820	6040	113	6550	6040	108	49-188	5	30
2-Butanone (MEK)	13 U	311	302	103	296	302	98	13-176	5	30
2-Hexanone	2.2 U	285	302	94	270	302	89	12-163	5	30
4-Methyl-2-pentanone	1.4 U	281	302	93	274	302	91	38-148	2	30
Acetone	97	371	302	91	355	302	86	11-183	6	30
Benzene	1.3 U	286	302	95	294	302	97	51-123	2	30
Bromochloromethane	1.3 U	302	302	100	302	302	100	46-129	<1	30
Bromodichloromethane	1.3 U	251	302	83	259	302	86	39-122	4	30
Bromoform	3.1 U	209	302	69	213	302	70	16-135	1	30
Bromomethane	13 U	348	302	115	332	302	110	10-150	4	30
Carbon Disulfide	1.8 U	283	302	94	298	302	99	44-139	5	30
Carbon Tetrachloride	1.6 U	231	302	76	240	302	79	46-137	4	30
Chlorobenzene	1.3 U	282	302	93	285	302	94	25-129	1	30
Chloroethane	2.5 U	340	302	112	376	302	125	10-166	11	30
Chloroform	1.3 U	313	302	104	316	302	105	55-118	<1	30
Chloromethane	8.5 U	343	302	114	343	302	114	10-139	<1	30
Cyclohexane	1.6 U	278	302	92	280	302	93	28-126	1	30
Dibromochloromethane	1.3 U	252	302	84	257	302	85	36-125	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21
		Date Analyzed:	03/30/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unp

Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2103277-05			Duplicate Matrix Spike RQ2103277-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Dichlorodifluoromethane (CFC 12)	2.0 U	393	302	130	395	302	131	51-144	<1	30
Dichloromethane	17 U	314	302	104	314	302	104	49-125	<1	30
Ethylbenzene	2.5 J	281	302	92	285	302	93	23-132	1	30
Isopropylbenzene (Cumene)	16 J	289	302	91	300	302	94	18-133	3	30
Methyl Acetate	5.1 U	282	302	93	270	302	89	10-200	4	30
Methyl tert-Butyl Ether	1.3 U	329	302	109	326	302	108	62-130	<1	30
Methylcyclohexane	1.9 U	282	302	93	276	302	92	12-134	1	30
Styrene	1.3 U	286	302	95	289	302	96	15-160	1	30
Tetrachloroethene (PCE)	14 J	257	302	81	266	302	83	21-137	2	30
Tetrahydrofuran (THF)	12 U	311	302	103	287	302	95	55-146	8	30
Toluene	1.3 U	284	302	94	288	302	95	11-152	1	30
Trichloroethene (TCE)	1.4 U	277	302	92	283	302	94	23-140	2	30
Trichlorofluoromethane (CFC 11)	1.6 U	293	302	97	294	302	97	47-129	<1	30
Vinyl Chloride	2.8 U	342	302	113	344	302	114	59-153	<1	30
cis-1,2-Dichloroethene	5.6 J	329	302	107	331	302	108	42-129	<1	30
cis-1,3-Dichloropropene	1.3 U	260	302	86	268	302	89	14-139	3	30
m,p-Xylenes	5.8 J	564	604	92	573	604	94	20-135	2	30
o-Xylene	7.0 J	295	302	95	297	302	96	26-137	1	30
trans-1,2-Dichloroethene	1.3 U	343	302	114	350	302	116	34-128	2	30
trans-1,3-Dichloropropene	1.3 U	244	302	81	257	302	85	17-155	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103275-05	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	250	10	50	03/30/21 13:31	
1,1,2,2-Tetrachloroethane	22 U	250	22	50	03/30/21 13:31	
1,1,2-Trichloroethane	10 U	250	10	50	03/30/21 13:31	
1,1,2-Trichloro-1,2,2-trifluoroethane	10 U	250	10	50	03/30/21 13:31	
1,1-Dichloroethane (1,1-DCA)	10 U	250	10	50	03/30/21 13:31	
1,1-Dichloroethene (1,1-DCE)	15 U	250	15	50	03/30/21 13:31	
1,2,3-Trichlorobenzene	26 U	250	26	50	03/30/21 13:31	
1,2,4-Trichlorobenzene	21 U	250	21	50	03/30/21 13:31	
1,2-Dibromo-3-chloropropane (DBCP)	38 U	250	38	50	03/30/21 13:31	
1,2-Dibromoethane	10 U	250	10	50	03/30/21 13:31	
1,2-Dichlorobenzene	10 U	250	10	50	03/30/21 13:31	
1,2-Dichloroethane	10 U	250	10	50	03/30/21 13:31	
1,2-Dichloropropane	10 U	250	10	50	03/30/21 13:31	
1,3-Dichlorobenzene	10 U	250	10	50	03/30/21 13:31	
1,4-Dichlorobenzene	11 U	250	11	50	03/30/21 13:31	
1,4-Dioxane	1000 U	5000	1000	50	03/30/21 13:31	
2-Butanone (MEK)	**140 J**	250	100	50	03/30/21 13:31	
2-Hexanone	18 U	250	18	50	03/30/21 13:31	
4-Methyl-2-pentanone	12 U	250	12	50	03/30/21 13:31	
Acetone	240 U	250	240	50	03/30/21 13:31	
Benzene	10 U	250	10	50	03/30/21 13:31	
Bromochloromethane	10 U	250	10	50	03/30/21 13:31	
Bromodichloromethane	10 U	250	10	50	03/30/21 13:31	
Bromoform	25 U	250	25	50	03/30/21 13:31	
Bromomethane	110 U	250	110	50	03/30/21 13:31	
Carbon Disulfide	15 U	250	15	50	03/30/21 13:31	
Carbon Tetrachloride	13 U	250	13	50	03/30/21 13:31	
Chlorobenzene	10 U	250	10	50	03/30/21 13:31	
Chloroethane	21 U	250	21	50	03/30/21 13:31	
Chloroform	10 U	250	10	50	03/30/21 13:31	
Chloromethane	70 U	250	70	50	03/30/21 13:31	
Cyclohexane	13 U	250	13	50	03/30/21 13:31	
Dibromochloromethane	10 U	250	10	50	03/30/21 13:31	
Dichlorodifluoromethane (CFC 12)	17 U	250	17	50	03/30/21 13:31	
Dichloromethane	140 U	250	140	50	03/30/21 13:31	
Ethylbenzene	10 U	250	10	50	03/30/21 13:31	
Isopropylbenzene (Cumene)	10 U	250	10	50	03/30/21 13:31	
Methyl Acetate	**90 J**	250	42	50	03/30/21 13:31	
Methyl tert-Butyl Ether	10 U	250	10	50	03/30/21 13:31	
Methylcyclohexane	16 U	250	16	50	03/30/21 13:31	
Styrene	10 U	250	10	50	03/30/21 13:31	
Tetrachloroethene (PCE)	12 U	250	12	50	03/30/21 13:31	
Tetrahydrofuran (THF)	95 U	250	95	50	03/30/21 13:31	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103275-05	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Toluene	10 U	250	10	50	03/30/21 13:31	
Trichloroethene (TCE)	11 U	250	11	50	03/30/21 13:31	
Trichlorofluoromethane (CFC 11)	13 U	250	13	50	03/30/21 13:31	
Vinyl Chloride	23 U	250	23	50	03/30/21 13:31	
cis-1,2-Dichloroethene	10 U	250	10	50	03/30/21 13:31	
cis-1,3-Dichloropropene	10 U	250	10	50	03/30/21 13:31	
m,p-Xylenes	19 U	500	19	50	03/30/21 13:31	
o-Xylene	10 U	250	10	50	03/30/21 13:31	
trans-1,2-Dichloroethene	10 U	250	10	50	03/30/21 13:31	
trans-1,3-Dichloropropene	10 U	250	10	50	03/30/21 13:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	31 - 154	03/30/21 13:31	
Dibromofluoromethane	92	63 - 138	03/30/21 13:31	
Toluene-d8	101	66 - 138	03/30/21 13:31	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103277-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,1,2,2-Tetrachloroethane	0.44 U	5.0	0.44	1	03/30/21 11:58	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,1-Dichloroethene (1,1-DCE)	0.29 U	5.0	0.29	1	03/30/21 11:58	
1,2,3-Trichlorobenzene	0.52 U	5.0	0.52	1	03/30/21 11:58	
1,2,4-Trichlorobenzene	0.42 U	5.0	0.42	1	03/30/21 11:58	
1,2-Dibromo-3-chloropropane (DBCP)	0.75 U	5.0	0.75	1	03/30/21 11:58	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/30/21 11:58	
1,4-Dichlorobenzene	0.22 U	5.0	0.22	1	03/30/21 11:58	
1,4-Dioxane	20 U	100	20	1	03/30/21 11:58	
2-Butanone (MEK)	2.0 U	5.0	2.0	1	03/30/21 11:58	
2-Hexanone	0.36 U	5.0	0.36	1	03/30/21 11:58	
4-Methyl-2-pentanone	0.23 U	5.0	0.23	1	03/30/21 11:58	
Acetone	4.7 U	5.0	4.7	1	03/30/21 11:58	
Benzene	0.20 U	5.0	0.20	1	03/30/21 11:58	
Bromochloromethane	0.20 U	5.0	0.20	1	03/30/21 11:58	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/30/21 11:58	
Bromoform	0.50 U	5.0	0.50	1	03/30/21 11:58	
Bromomethane	2.1 U	5.0	2.1	1	03/30/21 11:58	
Carbon Disulfide	0.29 U	5.0	0.29	1	03/30/21 11:58	
Carbon Tetrachloride	0.26 U	5.0	0.26	1	03/30/21 11:58	
Chlorobenzene	0.20 U	5.0	0.20	1	03/30/21 11:58	
Chloroethane	0.41 U	5.0	0.41	1	03/30/21 11:58	
Chloroform	0.20 U	5.0	0.20	1	03/30/21 11:58	
Chloromethane	1.4 U	5.0	1.4	1	03/30/21 11:58	
Cyclohexane	0.26 U	5.0	0.26	1	03/30/21 11:58	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/30/21 11:58	
Dichlorodifluoromethane (CFC 12)	0.33 U	5.0	0.33	1	03/30/21 11:58	
Dichloromethane	2.8 U	5.0	2.8	1	03/30/21 11:58	
Ethylbenzene	0.20 U	5.0	0.20	1	03/30/21 11:58	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/30/21 11:58	
Methyl Acetate	0.84 U	5.0	0.84	1	03/30/21 11:58	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/30/21 11:58	
Methylcyclohexane	0.31 U	5.0	0.31	1	03/30/21 11:58	
Styrene	0.20 U	5.0	0.20	1	03/30/21 11:58	
Tetrachloroethene (PCE)	0.23 U	5.0	0.23	1	03/30/21 11:58	
Tetrahydrofuran (THF)	1.9 U	5.0	1.9	1	03/30/21 11:58	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103277-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Toluene	0.20 U	5.0	0.20	1	03/30/21 11:58	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/30/21 11:58	
Trichlorofluoromethane (CFC 11)	0.26 U	5.0	0.26	1	03/30/21 11:58	
Vinyl Chloride	0.46 U	5.0	0.46	1	03/30/21 11:58	
cis-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/30/21 11:58	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/30/21 11:58	
m,p-Xylenes	0.37 U	10	0.37	1	03/30/21 11:58	
o-Xylene	0.20 U	5.0	0.20	1	03/30/21 11:58	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/30/21 11:58	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/30/21 11:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	31 - 154	03/30/21 11:58	
Dibromofluoromethane	96	63 - 138	03/30/21 11:58	
Toluene-d8	106	66 - 138	03/30/21 11:58	

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504 **Date Analyzed:** 03/30/21
Sample Matrix: Soil

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unp

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ2103277-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.7	20.0	94	68-123
1,1,2,2-Tetrachloroethane	8260C	19.4	20.0	97	78-121
1,1,2-Trichloroethane	8260C	19.5	20.0	98	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.9	20.0	100	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.0	20.0	100	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	24.8	20.0	124 *	65-115
1,2,3-Trichlorobenzene	8260C	17.9	20.0	89	60-128
1,2,4-Trichlorobenzene	8260C	18.7	20.0	93	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	14.2	20.0	71	54-135
1,2-Dibromoethane	8260C	18.5	20.0	93	77-117
1,2-Dichlorobenzene	8260C	19.4	20.0	97	75-116
1,2-Dichloroethane	8260C	18.9	20.0	95	74-116
1,2-Dichloropropane	8260C	18.6	20.0	93	79-112
1,3-Dichlorobenzene	8260C	19.7	20.0	99	72-118
1,4-Dichlorobenzene	8260C	19.2	20.0	96	72-117
1,4-Dioxane	8260C	462	400	115	59-147
2-Butanone (MEK)	8260C	19.6	20.0	98	67-129
2-Hexanone	8260C	20.0	20.0	100	68-118
4-Methyl-2-pentanone	8260C	19.8	20.0	99	64-123
Acetone	8260C	21.8	20.0	109	32-154
Benzene	8260C	19.1	20.0	96	77-114
Bromochloromethane	8260C	19.7	20.0	99	78-117
Bromodichloromethane	8260C	15.6	20.0	78	72-118
Bromoform	8260C	12.6	20.0	63	55-134
Bromomethane	8260C	21.1	20.0	105	10-150
Carbon Disulfide	8260C	20.7	20.0	104	44-139
Carbon Tetrachloride	8260C	15.2	20.0	76	51-123
Chlorobenzene	8260C	19.2	20.0	96	79-115
Chloroethane	8260C	25.1	20.0	126	10-140
Chloroform	8260C	20.0	20.0	100	76-115
Chloromethane	8260C	21.1	20.0	106	10-131
Cyclohexane	8260C	15.9	20.0	80	67-122
Dibromochloromethane	8260C	15.6	20.0	78	68-121

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504
Sample Matrix: Soil

Service Request: R2102458
Date Analyzed: 03/30/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unp

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ2103277-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	25.0	20.0	125	51-144
Dichloromethane	8260C	20.7	20.0	103	72-118
Ethylbenzene	8260C	19.1	20.0	95	64-118
Isopropylbenzene (Cumene)	8260C	19.1	20.0	95	60-123
Methyl Acetate	8260C	17.0	20.0	85	31-122
Methyl tert-Butyl Ether	8260C	20.1	20.0	100	76-118
Methylcyclohexane	8260C	17.8	20.0	89	70-124
Styrene	8260C	18.5	20.0	93	74-117
Tetrachloroethene (PCE)	8260C	18.1	20.0	90	58-124
Tetrahydrofuran (THF)	8260C	18.7	20.0	94	63-126
Toluene	8260C	19.2	20.0	96	72-116
Trichloroethene (TCE)	8260C	18.7	20.0	93	69-118
Trichlorofluoromethane (CFC 11)	8260C	19.2	20.0	96	52-127
Vinyl Chloride	8260C	21.6	20.0	108	59-153
cis-1,2-Dichloroethene	8260C	20.6	20.0	103	79-113
cis-1,3-Dichloropropene	8260C	16.3	20.0	82	66-117
m,p-Xylenes	8260C	38.5	40.0	96	68-118
o-Xylene	8260C	19.1	20.0	96	71-116
trans-1,2-Dichloroethene	8260C	22.5	20.0	113	73-114
trans-1,3-Dichloropropene	8260C	15.3	20.0	77	57-135

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504 **Date Analyzed:** 03/30/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unp

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2103275-03			RQ2103275-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	8260C	19.2	20.0	96	18.4	20.0	92	68-123	4	30
1,1,2,2-Tetrachloroethane	8260C	20.0	20.0	100	18.9	20.0	95	78-121	5	30
1,1,2-Trichloroethane	8260C	21.2	20.0	106	20.6	20.0	103	84-117	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	17.9	20.0	89	17.0	20.0	85	54-121	5	30
1,1-Dichloroethane (1,1-DCA)	8260C	19.8	20.0	99	19.5	20.0	97	76-123	2	30
1,1-Dichloroethene (1,1-DCE)	8260C	22.9	20.0	115	21.9	20.0	110	65-115	4	30
1,2,3-Trichlorobenzene	8260C	18.5	20.0	92	17.9	20.0	89	60-128	3	30
1,2,4-Trichlorobenzene	8260C	19.3	20.0	96	18.5	20.0	92	62-130	4	30
1,2-Dibromo-3-chloropropane (DBCP)	8260C	15.5	20.0	78	14.4	20.0	72	54-135	8	30
1,2-Dibromoethane	8260C	18.6	20.0	93	18.3	20.0	91	77-117	2	30
1,2-Dichlorobenzene	8260C	19.6	20.0	98	19.5	20.0	98	75-116	<1	30
1,2-Dichloroethane	8260C	19.5	20.0	97	19.2	20.0	96	74-116	1	30
1,2-Dichloropropane	8260C	19.9	20.0	100	19.4	20.0	97	79-112	3	30
1,3-Dichlorobenzene	8260C	19.0	20.0	95	19.5	20.0	98	72-118	3	30
1,4-Dichlorobenzene	8260C	19.0	20.0	95	19.1	20.0	96	72-117	1	30
1,4-Dioxane	8260C	476	400	119	420	400	105	59-147	13	30
2-Butanone (MEK)	8260C	24.3	20.0	122	22.0	20.0	110	67-129	10	30
2-Hexanone	8260C	21.8	20.0	109	20.0	20.0	100	68-118	9	30
4-Methyl-2-pentanone	8260C	22.5	20.0	113	20.8	20.0	104	64-123	8	30
Acetone	8260C	22.4	20.0	112	20.5	20.0	102	32-154	9	30
Benzene	8260C	20.1	20.0	100	19.3	20.0	97	77-114	3	30
Bromochloromethane	8260C	19.0	20.0	95	18.3	20.0	91	78-117	4	30
Bromodichloromethane	8260C	18.6	20.0	93	17.6	20.0	88	72-118	6	30
Bromoform	8260C	16.5	20.0	82	15.6	20.0	78	55-134	5	30
Bromomethane	8260C	8.17	20.0	41	8.24	20.0	41	10-150	<1	30
Carbon Disulfide	8260C	18.3	20.0	92	18.2	20.0	91	44-139	1	30
Carbon Tetrachloride	8260C	17.6	20.0	88	17.4	20.0	87	51-123	1	30
Chlorobenzene	8260C	19.7	20.0	98	19.3	20.0	97	79-115	1	30
Chloroethane	8260C	6.38	20.0	32	6.44	20.0	32	10-140	<1	30
Chloroform	8260C	18.6	20.0	93	18.2	20.0	91	76-115	2	30
Chloromethane	8260C	24.2	20.0	121	22.3	20.0	111	10-131	9	30
Cyclohexane	8260C	16.4	20.0	82	19.0	20.0	95	67-122	15	30
Dibromochloromethane	8260C	18.6	20.0	93	18.7	20.0	94	68-121	1	30

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504 **Date Analyzed:** 03/30/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unp

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2103275-03			RQ2103275-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Dichlorodifluoromethane (CFC 12)	8260C	21.7	20.0	108	21.1	20.0	105	51-144	3	30
Dichloromethane	8260C	20.6	20.0	103	20.2	20.0	101	72-118	2	30
Ethylbenzene	8260C	19.6	20.0	98	19.6	20.0	98	64-118	<1	30
Isopropylbenzene (Cumene)	8260C	18.2	20.0	91	18.4	20.0	92	60-123	1	30
Methyl Acetate	8260C	26.8	20.0	134 *	25.1	20.0	125 *	31-122	7	30
Methyl tert-Butyl Ether	8260C	19.6	20.0	98	18.9	20.0	94	76-118	4	30
Methylcyclohexane	8260C	16.7	20.0	84	19.6	20.0	98	70-124	15	30
Styrene	8260C	20.8	20.0	104	20.5	20.0	103	74-117	<1	30
Tetrachloroethene (PCE)	8260C	18.3	20.0	92	18.3	20.0	91	58-124	1	30
Tetrahydrofuran (THF)	8260C	21.4	20.0	107	19.6	20.0	98	63-126	9	30
Toluene	8260C	20.1	20.0	101	19.9	20.0	100	72-116	<1	30
Trichloroethene (TCE)	8260C	18.6	20.0	93	18.2	20.0	91	69-118	2	30
Trichlorofluoromethane (CFC 11)	8260C	10.2	20.0	51 *	19.4	20.0	97	52-127	62*	30
Vinyl Chloride	8260C	21.9	20.0	110	19.9	20.0	99	59-153	11	30
cis-1,2-Dichloroethene	8260C	20.7	20.0	103	19.3	20.0	96	79-113	7	30
cis-1,3-Dichloropropene	8260C	19.9	20.0	99	19.3	20.0	97	66-117	2	30
m,p-Xylenes	8260C	40.8	40.0	102	40.3	40.0	101	68-118	<1	30
o-Xylene	8260C	20.4	20.0	102	21.0	20.0	105	71-116	3	30
trans-1,2-Dichloroethene	8260C	21.9	20.0	110	19.9	20.0	100	73-114	10	30
trans-1,3-Dichloropropene	8260C	19.2	20.0	96	19.7	20.0	99	57-135	3	30

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
Drum 6-Phase III-Purge Water	R2102458-008	94	96	99
Drum 1-PD1-Decon Water	R2102458-009	96	95	100
Method Blank	RQ2103138-04	95	96	100
Method Blank	RQ2103165-04	98	98	103
Lab Control Sample	RQ2103138-03	101	104	105
Lab Control Sample	RQ2103165-03	98	99	102

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2103138-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/26/21 12:20	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/26/21 12:20	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/26/21 12:20	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/26/21 12:20	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/26/21 12:20	
2-Hexanone	0.20 U	10	0.20	1	03/26/21 12:20	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/26/21 12:20	
Acetone	5.0 U	10	5.0	1	03/26/21 12:20	
Benzene	0.20 U	5.0	0.20	1	03/26/21 12:20	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/26/21 12:20	
Bromoform	0.25 U	5.0	0.25	1	03/26/21 12:20	
Bromomethane	0.70 U	5.0	0.70	1	03/26/21 12:20	
Carbon Disulfide	0.42 U	10	0.42	1	03/26/21 12:20	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/26/21 12:20	
Chlorobenzene	0.20 U	5.0	0.20	1	03/26/21 12:20	
Chloroethane	0.23 U	5.0	0.23	1	03/26/21 12:20	
Chloroform	0.24 U	5.0	0.24	1	03/26/21 12:20	
Chloromethane	0.28 U	5.0	0.28	1	03/26/21 12:20	
Cyclohexane	0.26 U	10	0.26	1	03/26/21 12:20	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/26/21 12:20	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/26/21 12:20	
Dichloromethane	0.65 U	5.0	0.65	1	03/26/21 12:20	
Ethylbenzene	0.20 U	5.0	0.20	1	03/26/21 12:20	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/26/21 12:20	
Methyl Acetate	0.33 U	10	0.33	1	03/26/21 12:20	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/26/21 12:20	
Methylcyclohexane	0.20 U	10	0.20	1	03/26/21 12:20	
Styrene	0.20 U	5.0	0.20	1	03/26/21 12:20	
Tetrachloroethene (PCE)	**0.42 J**	5.0	0.21	1	03/26/21 12:20	
Toluene	0.20 U	5.0	0.20	1	03/26/21 12:20	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/26/21 12:20	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2103138-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/26/21 12:20	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/26/21 12:20	
Xylenes, Total	0.23 U	5.0	0.23	1	03/26/21 12:20	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/26/21 12:20	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/26/21 12:20	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/26/21 12:20	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/26/21 12:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/26/21 12:20	
Dibromofluoromethane	96	80 - 116	03/26/21 12:20	
Toluene-d8	100	87 - 121	03/26/21 12:20	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2103165-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/27/21 12:51	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/27/21 12:51	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/27/21 12:51	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/27/21 12:51	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/27/21 12:51	
2-Hexanone	0.20 U	10	0.20	1	03/27/21 12:51	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/27/21 12:51	
Acetone	5.0 U	10	5.0	1	03/27/21 12:51	
Benzene	0.20 U	5.0	0.20	1	03/27/21 12:51	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/27/21 12:51	
Bromoform	0.25 U	5.0	0.25	1	03/27/21 12:51	
Bromomethane	0.70 U	5.0	0.70	1	03/27/21 12:51	
Carbon Disulfide	0.42 U	10	0.42	1	03/27/21 12:51	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/27/21 12:51	
Chlorobenzene	0.20 U	5.0	0.20	1	03/27/21 12:51	
Chloroethane	0.23 U	5.0	0.23	1	03/27/21 12:51	
Chloroform	0.24 U	5.0	0.24	1	03/27/21 12:51	
Chloromethane	0.28 U	5.0	0.28	1	03/27/21 12:51	
Cyclohexane	0.26 U	10	0.26	1	03/27/21 12:51	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/27/21 12:51	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/27/21 12:51	
Dichloromethane	0.65 U	5.0	0.65	1	03/27/21 12:51	
Ethylbenzene	0.20 U	5.0	0.20	1	03/27/21 12:51	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/27/21 12:51	
Methyl Acetate	0.33 U	10	0.33	1	03/27/21 12:51	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/27/21 12:51	
Methylcyclohexane	0.20 U	10	0.20	1	03/27/21 12:51	
Styrene	0.20 U	5.0	0.20	1	03/27/21 12:51	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/27/21 12:51	
Toluene	0.20 U	5.0	0.20	1	03/27/21 12:51	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/27/21 12:51	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2103165-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/27/21 12:51	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/27/21 12:51	
Xylenes, Total	0.23 U	5.0	0.23	1	03/27/21 12:51	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/27/21 12:51	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/27/21 12:51	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/27/21 12:51	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/27/21 12:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/27/21 12:51	
Dibromofluoromethane	98	80 - 116	03/27/21 12:51	
Toluene-d8	103	87 - 121	03/27/21 12:51	

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504
Sample Matrix: Water

Service Request: R2102458
Date Analyzed: 03/26/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2103138-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.1	20.0	101	75-125
1,1,2,2-Tetrachloroethane	8260C	20.4	20.0	102	78-126
1,1,2-Trichloroethane	8260C	21.0	20.0	105	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.1	20.0	101	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.9	20.0	100	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.2	20.0	121 *	71-118
1,2,4-Trichlorobenzene	8260C	21.2	20.0	106	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.8	20.0	89	55-136
1,2-Dibromoethane	8260C	20.4	20.0	102	82-127
1,2-Dichlorobenzene	8260C	20.5	20.0	103	80-119
1,2-Dichloroethane	8260C	20.5	20.0	102	71-127
1,2-Dichloropropane	8260C	21.4	20.0	107	80-119
1,3-Dichlorobenzene	8260C	20.9	20.0	104	83-121
1,4-Dichlorobenzene	8260C	20.3	20.0	102	79-119
2-Butanone (MEK)	8260C	19.2	20.0	96	61-137
2-Hexanone	8260C	19.1	20.0	95	63-124
4-Methyl-2-pentanone	8260C	19.9	20.0	99	66-124
Acetone	8260C	19.6	20.0	98	40-161
Benzene	8260C	21.6	20.0	108	79-119
Bromodichloromethane	8260C	19.9	20.0	99	81-123
Bromoform	8260C	18.1	20.0	90	65-146
Bromomethane	8260C	19.4	20.0	97	42-166
Carbon Disulfide	8260C	19.1	20.0	96	66-128
Carbon Tetrachloride	8260C	20.0	20.0	100	70-127
Chlorobenzene	8260C	21.2	20.0	106	80-121
Chloroethane	8260C	19.4	20.0	97	62-131
Chloroform	8260C	19.2	20.0	96	79-120
Chloromethane	8260C	21.1	20.0	105	65-135
Cyclohexane	8260C	19.7	20.0	99	69-120
Dibromochloromethane	8260C	20.0	20.0	100	72-128
Dichlorodifluoromethane (CFC 12)	8260C	22.4	20.0	112	59-155
Dichloromethane	8260C	20.6	20.0	103	73-122
Ethylbenzene	8260C	21.5	20.0	107	76-120

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504
Sample Matrix: Water

Service Request: R2102458
Date Analyzed: 03/26/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2103138-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.8	20.0	109	77-128
Methyl Acetate	8260C	17.8	20.0	89	61-133
Methyl tert-Butyl Ether	8260C	19.4	20.0	97	75-118
Methylcyclohexane	8260C	20.7	20.0	103	51-129
Styrene	8260C	21.6	20.0	108	80-124
Tetrachloroethene (PCE)	8260C	21.6	20.0	108	72-125
Toluene	8260C	21.6	20.0	108	79-119
Trichloroethene (TCE)	8260C	19.9	20.0	100	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.1	20.0	106	71-136
Vinyl Chloride	8260C	20.6	20.0	103	74-159
cis-1,2-Dichloroethene	8260C	21.0	20.0	105	80-121
cis-1,3-Dichloropropene	8260C	20.9	20.0	104	77-122
trans-1,2-Dichloroethene	8260C	23.5	20.0	117	73-118
trans-1,3-Dichloropropene	8260C	20.3	20.0	101	71-133

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504
Sample Matrix: Water

Service Request: R2102458
Date Analyzed: 03/27/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2103165-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.5	20.0	97	75-125
1,1,2,2-Tetrachloroethane	8260C	19.3	20.0	97	78-126
1,1,2-Trichloroethane	8260C	19.0	20.0	95	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.9	20.0	95	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.2	20.0	96	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.2	20.0	121 *	71-118
1,2,4-Trichlorobenzene	8260C	20.0	20.0	100	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	16.0	20.0	80	55-136
1,2-Dibromoethane	8260C	18.8	20.0	94	82-127
1,2-Dichlorobenzene	8260C	19.5	20.0	97	80-119
1,2-Dichloroethane	8260C	19.0	20.0	95	71-127
1,2-Dichloropropane	8260C	19.5	20.0	97	80-119
1,3-Dichlorobenzene	8260C	19.7	20.0	99	83-121
1,4-Dichlorobenzene	8260C	19.1	20.0	96	79-119
2-Butanone (MEK)	8260C	18.1	20.0	91	61-137
2-Hexanone	8260C	17.7	20.0	88	63-124
4-Methyl-2-pentanone	8260C	18.2	20.0	91	66-124
Acetone	8260C	17.8	20.0	89	40-161
Benzene	8260C	20.3	20.0	101	79-119
Bromodichloromethane	8260C	18.2	20.0	91	81-123
Bromoform	8260C	18.3	20.0	91	65-146
Bromomethane	8260C	20.4	20.0	102	42-166
Carbon Disulfide	8260C	19.1	20.0	96	66-128
Carbon Tetrachloride	8260C	19.4	20.0	97	70-127
Chlorobenzene	8260C	20.0	20.0	100	80-121
Chloroethane	8260C	18.5	20.0	92	62-131
Chloroform	8260C	18.7	20.0	93	79-120
Chloromethane	8260C	20.3	20.0	101	65-135
Cyclohexane	8260C	18.6	20.0	93	69-120
Dibromochloromethane	8260C	19.0	20.0	95	72-128
Dichlorodifluoromethane (CFC 12)	8260C	22.3	20.0	111	59-155
Dichloromethane	8260C	19.8	20.0	99	73-122
Ethylbenzene	8260C	20.7	20.0	104	76-120

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504
Sample Matrix: Water

Service Request: R2102458
Date Analyzed: 03/27/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2103165-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.1	20.0	105	77-128
Methyl Acetate	8260C	17.5	20.0	87	61-133
Methyl tert-Butyl Ether	8260C	18.6	20.0	93	75-118
Methylcyclohexane	8260C	19.1	20.0	96	51-129
Styrene	8260C	20.0	20.0	100	80-124
Tetrachloroethene (PCE)	8260C	20.4	20.0	102	72-125
Toluene	8260C	20.5	20.0	102	79-119
Trichloroethene (TCE)	8260C	18.5	20.0	92	74-122
Trichlorofluoromethane (CFC 11)	8260C	20.4	20.0	102	71-136
Vinyl Chloride	8260C	19.9	20.0	100	74-159
cis-1,2-Dichloroethene	8260C	20.2	20.0	101	80-121
cis-1,3-Dichloropropene	8260C	19.6	20.0	98	77-122
trans-1,2-Dichloroethene	8260C	21.8	20.0	109	73-118
trans-1,3-Dichloropropene	8260C	19.3	20.0	97	71-133

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol 19-107	2-Fluorobiphenyl 10-115	2-Fluorophenol 10-97
401075-South Sidewall-8	R2102458-001	87	79	61
401075-West Sidewall-8	R2102458-002	81	72	58
401075-FD-031621	R2102458-003	87	84	81
401075-East Side Wall-8	R2102458-004	88	97	56
401075-North Side Wall-9	R2102458-005	115*	91	68
401075-North Bottom-10	R2102458-006	86	60	47
401075-South Bottom-11	R2102458-007	75	87	71
Method Blank	RQ2102901-01	69	87	74
Lab Control Sample	RQ2102901-02	59	30	11
Duplicate Lab Control Sample	RQ2102901-03	86	88	76
401075-South Sidewall-8 MS	RQ2102901-04	97	85	79
401075-South Sidewall-8 DMS	RQ2102901-05	98	84	80

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5 10-130	Phenol-d6 17-135	Terphenyl-d14 10-130
401075-South Sidewall-8	R2102458-001	122	74	90
401075-West Sidewall-8	R2102458-002	138*	68	80
401075-FD-031621	R2102458-003	116	83	87
401075-East Side Wall-8	R2102458-004	8492*	5140*	102
401075-North Side Wall-9	R2102458-005	1692*	249*	95
401075-North Bottom-10	R2102458-006	404*	58	85
401075-South Bottom-11	R2102458-007	2976*	279*	85
Method Blank	RQ2102901-01	86	79	89
Lab Control Sample	RQ2102901-02	28	21	77
Duplicate Lab Control Sample	RQ2102901-03	88	82	90
401075-South Sidewall-8 MS	RQ2102901-04	118	88	90
401075-South Sidewall-8 DMS	RQ2102901-05	115	87	91

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QA/QC Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21
		Date Analyzed:	03/24/21
		Date Extracted:	03/22/21

Duplicate Matrix Spike Summary
Low Level Semivolatile Organic Compounds by GC/MS

Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike RQ2102901-04			Duplicate Matrix Spike RQ2102901-05				
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	31 U	379	437	87	393	444	89	10-101	4	30
1,4-Dioxane	75 U	520	871	60	552	883	63	13-91	6	30
2,3,4,6-Tetrachlorophenol	26 U	409	437	93	430	443	97	10-123	5	30
2,4,5-Trichlorophenol	17 U	411	437	94	424	443	96	13-123	3	30
2,4,6-Trichlorophenol	17 U	414	437	95	423	443	95	10-134	2	30
2,4-Dichlorophenol	18 U	401	437	92	414	443	93	10-132	3	30
2,4-Dimethylphenol	30 U	422	437	97	443	443	100	12-127	5	30
2,4-Dinitrophenol	22 U	238	437	54	298	443	67	10-123	22	30
2,4-Dinitrotoluene	33 U	717	437	164	602	443	136	16-189	17	30
2,6-Dinitrotoluene	35 U	547	437	125	540	443	122	53-171	1	30
2-Chloronaphthalene	29 U	389	437	89	392	443	89	10-124	<1	30
2-Chlorophenol	18 U	350	437	80	367	443	83	10-122	5	30
2-Methylnaphthalene	550	738	437	42	689	443	31	10-128	7	30
2-Methylphenol	17 U	385	437	88	398	443	90	12-123	3	30
2-Nitroaniline	37 U	393	437	90	416	443	94	14-169	6	30
2-Nitrophenol	18 U	403	437	92	439	443	99	10-163	9	30
3,3'-Dichlorobenzidine	42 U	414	437	95	432	443	97	25-121	4	30
3- and 4-Methylphenol Coelution	18 U	403	437	92	422	443	95	14-119	5	30
3-Nitroaniline	17 U	424	437	97	344	443	78	10-104	21	30
4,6-Dinitro-2-methylphenol	27 U	372	437	85	421	443	95	10-150	12	30
4-Bromophenyl Phenyl Ether	31 U	417	437	95	482	443	109	36-165	15	30
4-Chloro-3-methylphenol	32 U	399	437	91	433	443	98	17-131	8	30
4-Chloroaniline	21 U	270	437	62	258	443	58	10-91	5	30
4-Chlorophenyl Phenyl Ether	29 U	413	437	94	423	443	95	10-169	2	30
4-Nitroaniline	37 U	440	437	101	482	443	109	10-137	9	30
4-Nitrophenol	55 U	433	437	99	454	443	102	10-124	5	30
Acenaphthene	240	563	437	74	545	443	69	10-126	3	30
Acenaphthylene	4.0 U	461	437	105	469	443	106	10-132	2	30
Acetophenone	25 U	962	874	110 *	914	886	103	36-106	5	30
Anthracene	130	480	437	79	576	443	100	10-129	18	30
Atrazine	20 U	471	437	108	537	443	121	46-157	13	30
Benz(a)anthracene	11 U	402	437	92	420	443	95	10-120	4	30
Benzaldehyde	32 U	280	437	64	286	443	65	10-131	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21
		Date Analyzed:	03/24/21
		Date Extracted:	03/22/21

Duplicate Matrix Spike Summary
Low Level Semivolatile Organic Compounds by GC/MS

Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike RQ2102901-04			Duplicate Matrix Spike RQ2102901-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(a)pyrene	6.0 U	533	437	122	556	443	125	10-141	4	30
Benzo(b)fluoranthene	7.7 U	417	437	95	440	443	99	10-132	5	30
Benzo(g,h,i)perylene	6.2 U	511	437	117	526	443	119	10-149	3	30
Benzo(k)fluoranthene	8.3 U	460	437	105	482	443	109	10-137	5	30
Biphenyl	300	614	437	71	583	443	63	19-133	5	30
2,2'-Oxybis(1-chloropropane)	31 U	373	437	85	389	443	88	10-144	4	30
Bis(2-chloroethoxy)methane	29 U	426	437	97	445	443	100	38-133	4	30
Bis(2-chloroethyl) Ether	29 U	387	437	89	406	443	92	30-121	5	30
Bis(2-ethylhexyl) Phthalate	94 BJ	567 J	437	108	546 J	443	102	10-200	4	30
Butyl Benzyl Phthalate	36 U	468	437	107	479	443	108	10-125	2	30
Caprolactam	55 U	1660 E	437	380 *	1560 E	443	351 *	36-111	6	30
Carbazole	36 J	480	437	102	519	443	109	10-200	8	30
Chrysene	6.0 U	432	437	99	690	443	156 *	10-135	46*	30
Di-n-butyl Phthalate	35 U	420 J	437	96	443 J	443	100	10-200	5	30
Di-n-octyl Phthalate	64 U	554	437	127	563	443	127	10-141	2	30
Dibenz(a,h)anthracene	6.0 U	468	437	107	480	443	108	10-145	3	30
Dibenzofuran	6.4 U	586	437	134 *	566	443	128 *	10-125	3	30
Diethyl Phthalate	40 U	445	437	102	462	443	104	28-190	4	30
Dimethyl Phthalate	32 U	446	437	102	453	443	102	17-106	2	30
Fluoranthene	11 U	358	437	82	384	443	87	10-129	7	30
Fluorene	470	766	437	69	724	443	58	10-116	6	30
Hexachlorobenzene	5.2 U	438	437	100	460	443	104	10-127	5	30
Hexachlorobutadiene	29 U	373	437	85	390	443	88	10-133	4	30
Hexachlorocyclopentadiene	51 U	262	437	60	280	443	63	10-104	7	30
Hexachloroethane	26 U	587	437	134 *	542	443	122 *	10-118	8	30
Indeno(1,2,3-cd)pyrene	6.4 U	441	437	101	463	443	104	10-154	5	30
Isophorone	32 U	409	437	94	428	443	97	37-145	4	30
N-Nitrosodi-n-propylamine	27 U	486	437	111	477	443	108	34-115	2	30
N-Nitrosodiphenylamine	23 U	1460	437	333 *	1380	443	311 *	16-178	5	30
Naphthalene	160	494	437	76	490	443	74	10-128	<1	30
Nitrobenzene	6.0 U	381	437	87	403	443	91	10-123	6	30
Pentachlorophenol (PCP)	63 U	258	437	59	302	443	68	10-97	16	30
Phenanthrene	1000	1120	437	24	1070	443	12	10-130	5	30

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QA/QC Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21
		Date Analyzed:	03/24/21
		Date Extracted:	03/22/21

Duplicate Matrix Spike Summary
Low Level Semivolatile Organic Compounds by GC/MS

Sample Name:	401075-South Sidewall-8	**Units:**	ug/Kg
Lab Code:	R2102458-001	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike RQ2102901-04			**Duplicate Matrix Spike** RQ2102901-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phenol	20 U	365	437	83	375	443	85	14-120	3	30
Pyrene	23	454	437	98	456	443	98	10-140	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2102901-01	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	14 U	32	14	1	03/24/21 03:39	3/22/21	
1,4-Dioxane	34 U	66	34	1	03/24/21 03:39	3/22/21	
2,3,4,6-Tetrachlorophenol	12 U	32	12	1	03/24/21 03:39	3/22/21	
2,4,5-Trichlorophenol	7.6 U	32	7.6	1	03/24/21 03:39	3/22/21	
2,4,6-Trichlorophenol	7.4 U	32	7.4	1	03/24/21 03:39	3/22/21	
2,4-Dichlorophenol	7.8 U	32	7.8	1	03/24/21 03:39	3/22/21	
2,4-Dimethylphenol	14 U	32	14	1	03/24/21 03:39	3/22/21	
2,4-Dinitrophenol	9.7 U	32	9.7	1	03/24/21 03:39	3/22/21	
2,4-Dinitrotoluene	15 U	32	15	1	03/24/21 03:39	3/22/21	
2,6-Dinitrotoluene	16 U	32	16	1	03/24/21 03:39	3/22/21	
2-Chloronaphthalene	13 U	32	13	1	03/24/21 03:39	3/22/21	
2-Chlorophenol	8.0 U	32	8.0	1	03/24/21 03:39	3/22/21	
2-Methylnaphthalene	1.9 U	6.5	1.9	1	03/24/21 03:39	3/22/21	
2-Methylphenol	7.5 U	32	7.5	1	03/24/21 03:39	3/22/21	
2-Nitroaniline	17 U	32	17	1	03/24/21 03:39	3/22/21	
2-Nitrophenol	7.8 U	32	7.8	1	03/24/21 03:39	3/22/21	
3,3'-Dichlorobenzidine	19 U	32	19	1	03/24/21 03:39	3/22/21	
3- and 4-Methylphenol Coelution	8.2 U	32	8.2	1	03/24/21 03:39	3/22/21	
3-Nitroaniline	7.5 U	32	7.5	1	03/24/21 03:39	3/22/21	
4,6-Dinitro-2-methylphenol	12 U	32	12	1	03/24/21 03:39	3/22/21	
4-Bromophenyl Phenyl Ether	14 U	32	14	1	03/24/21 03:39	3/22/21	
4-Chloro-3-methylphenol	15 U	32	15	1	03/24/21 03:39	3/22/21	
4-Chloroaniline	9.5 U	32	9.5	1	03/24/21 03:39	3/22/21	
4-Chlorophenyl Phenyl Ether	14 U	32	14	1	03/24/21 03:39	3/22/21	
4-Nitroaniline	17 U	32	17	1	03/24/21 03:39	3/22/21	
4-Nitrophenol	26 U	32	26	1	03/24/21 03:39	3/22/21	
Acenaphthene	1.7 U	6.5	1.7	1	03/24/21 03:39	3/22/21	
Acenaphthylene	1.8 U	6.5	1.8	1	03/24/21 03:39	3/22/21	
Acetophenone	11 U	32	11	1	03/24/21 03:39	3/22/21	
Anthracene	4.1 U	6.5	4.1	1	03/24/21 03:39	3/22/21	
Atrazine	8.7 U	32	8.7	1	03/24/21 03:39	3/22/21	
Benz(a)anthracene	5.0 U	6.6	5.0	1	03/24/21 03:39	3/22/21	
Benzaldehyde	15 U	32	15	1	03/24/21 03:39	3/22/21	
Benzo(a)pyrene	2.7 U	6.5	2.7	1	03/24/21 03:39	3/22/21	
Benzo(b)fluoranthene	3.5 U	6.5	3.5	1	03/24/21 03:39	3/22/21	
Benzo(g,h,i)perylene	2.8 U	6.5	2.8	1	03/24/21 03:39	3/22/21	
Benzo(k)fluoranthene	3.8 U	6.5	3.8	1	03/24/21 03:39	3/22/21	
Biphenyl	8.2 U	32	8.2	1	03/24/21 03:39	3/22/21	
2,2'-Oxybis(1-chloropropane)	15 U	32	15	1	03/24/21 03:39	3/22/21	
Bis(2-chloroethoxy)methane	14 U	32	14	1	03/24/21 03:39	3/22/21	
Bis(2-chloroethyl) Ether	14 U	32	14	1	03/24/21 03:39	3/22/21	

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Analytical Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project:	Admiral Cleaners/1602504	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2102901-01	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Bis(2-ethylhexyl) Phthalate	**39**	**J**	590	30	1	03/24/21 03:39	3/22/21	
Butyl Benzyl Phthalate	17	U	170	17	1	03/24/21 03:39	3/22/21	
Caprolactam	25	U	32	25	1	03/24/21 03:39	3/22/21	
Carbazole	14	U	32	14	1	03/24/21 03:39	3/22/21	
Chrysene	2.7	U	6.5	2.7	1	03/24/21 03:39	3/22/21	
Di-n-butyl Phthalate	16	U	490	16	1	03/24/21 03:39	3/22/21	
Di-n-octyl Phthalate	29	U	170	29	1	03/24/21 03:39	3/22/21	
Dibenz(a,h)anthracene	2.7	U	6.5	2.7	1	03/24/21 03:39	3/22/21	
Dibenzofuran	3.0	U	6.5	3.0	1	03/24/21 03:39	3/22/21	
Diethyl Phthalate	18	U	200	18	1	03/24/21 03:39	3/22/21	
Dimethyl Phthalate	15	U	170	15	1	03/24/21 03:39	3/22/21	
Fluoranthene	4.9	U	6.5	4.9	1	03/24/21 03:39	3/22/21	
Fluorene	1.7	U	6.5	1.7	1	03/24/21 03:39	3/22/21	
Hexachlorobenzene	2.4	U	6.5	2.4	1	03/24/21 03:39	3/22/21	
Hexachlorobutadiene	13	U	32	13	1	03/24/21 03:39	3/22/21	
Hexachlorocyclopentadiene	23	U	32	23	1	03/24/21 03:39	3/22/21	
Hexachloroethane	12	U	32	12	1	03/24/21 03:39	3/22/21	
Indeno(1,2,3-cd)pyrene	2.9	U	6.5	2.9	1	03/24/21 03:39	3/22/21	
Isophorone	15	U	32	15	1	03/24/21 03:39	3/22/21	
N-Nitrosodi-n-propylamine	12	U	32	12	1	03/24/21 03:39	3/22/21	
N-Nitrosodiphenylamine	11	U	32	11	1	03/24/21 03:39	3/22/21	
Naphthalene	2.3	U	6.5	2.3	1	03/24/21 03:39	3/22/21	
Nitrobenzene	2.7	U	6.5	2.7	1	03/24/21 03:39	3/22/21	
Pentachlorophenol (PCP)	29	U	32	29	1	03/24/21 03:39	3/22/21	
Phenanthrene	3.5	U	6.5	3.5	1	03/24/21 03:39	3/22/21	
Phenol	8.8	U	32	8.8	1	03/24/21 03:39	3/22/21	
Pyrene	3.2	U	6.5	3.2	1	03/24/21 03:39	3/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	69	19 - 107	03/24/21 03:39	
2-Fluorobiphenyl	87	10 - 115	03/24/21 03:39	
2-Fluorophenol	74	10 - 97	03/24/21 03:39	
Nitrobenzene-d5	86	10 - 130	03/24/21 03:39	
Phenol-d6	79	17 - 135	03/24/21 03:39	
Terphenyl-d14	89	10 - 130	03/24/21 03:39	

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504 **Date Analyzed:** 03/24/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Low Level Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2102901-02			RQ2102901-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	56.0	196	29 *	186	198	94	31-127	107*	30
1,4-Dioxane	8270D	34 U	390	0 *	245	393	62	24-101	NC	30
2,3,4,6-Tetrachlorophenol	8270D	105	196	54	167	197	85	37-156	46*	30
2,4,5-Trichlorophenol	8270D	68.9	196	35	170	197	86	16-123	85*	30
2,4,6-Trichlorophenol	8270D	62.2	196	32	173	197	88	18-126	94*	30
2,4-Dichlorophenol	8270D	52.7	196	27	175	197	89	17-128	108*	30
2,4-Dimethylphenol	8270D	57.4	196	29	170	197	86	17-125	99*	30
2,4-Dinitrophenol	8270D	49.1	196	25	38.8	197	20	10-118	24	30
2,4-Dinitrotoluene	8270D	121	196	62	173	197	87	16-189	35*	30
2,6-Dinitrotoluene	8270D	117	196	60	201	197	102	53-131	52*	30
2-Chloronaphthalene	8270D	58.4	196	30	177	197	90	13-116	101*	30
2-Chlorophenol	8270D	36.3	196	19	158	197	80	10-122	125*	30
2-Methylnaphthalene	8270D	50.8	196	26	175	197	89	13-116	110*	30
2-Methylphenol	8270D	48.1	196	25	171	197	87	12-123	112*	30
2-Nitroaniline	8270D	100	196	51	181	197	92	35-126	57*	30
2-Nitrophenol	8270D	47.8	196	24	161	197	82	10-152	109*	30
3,3'-Dichlorobenzidine	8270D	130	196	67	187	197	95	25-121	36*	30
3- and 4-Methylphenol Coelution	8270D	53.8	196	28	175	197	89	14-119	106*	30
3-Nitroaniline	8270D	110	196	56	156	197	79 *	22-69	35*	30
4,6-Dinitro-2-methylphenol	8270D	97.1	196	50	123	197	62	10-150	24	30
4-Bromophenyl Phenyl Ether	8270D	112	196	57	185	197	94	36-165	49*	30
4-Chloro-3-methylphenol	8270D	75.7	196	39	190	197	96	23-128	86*	30
4-Chloroaniline	8270D	49.2	196	25	119	197	60	12-78	83*	30
4-Chlorophenyl Phenyl Ether	8270D	90.3	196	46	170	197	86	34-151	61*	30
4-Nitroaniline	8270D	121	196	62	164	197	83	27-102	30	30
4-Nitrophenol	8270D	105	196	53	143	197	72	12-115	31*	30
Acenaphthene	8270D	70.9	196	36	176	197	89	17-115	85*	30
Acenaphthylene	8270D	75.1	196	38	189	197	96	15-123	86*	30
Acetophenone	8270D	90.9	391	23 *	303	395	77	36-106	108*	30
Anthracene	8270D	138	196	70	198	197	100	37-117	36*	30
Atrazine	8270D	151	196	77	217	197	110	46-157	36*	30
Benz(a)anthracene	8270D	163	196	83	177	197	90	39-105	8	30
Benzaldehyde	8270D	24.6 J	196	13	110	197	56	10-131	127*	30

ALS Group USA, Corp.
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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST) **Service Request:** R2102458
Project: Admiral Cleaners/1602504 **Date Analyzed:** 03/24/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Low Level Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2102901-02			RQ2102901-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(a)pyrene	8270D	232	196	119	240	197	121	38-130	3	30
Benzo(b)fluoranthene	8270D	183	196	93	191	197	97	36-120	4	30
Benzo(g,h,i)perylene	8270D	230	196	117	230	197	116	36-140	<1	30
Benzo(k)fluoranthene	8270D	200	196	102	208	197	105	40-125	4	30
Biphenyl	8270D	57.9	196	30	171	197	86	19-133	99*	30
2,2'-Oxybis(1-chloropropane)	8270D	46.4	196	24 *	170	197	86	32-112	114*	30
Bis(2-chloroethoxy)methane	8270D	52.0	196	27 *	188	197	95	38-133	113*	30
Bis(2-chloroethyl) Ether	8270D	48.2	196	25 *	173	197	88	30-121	113*	30
Bis(2-ethylhexyl) Phthalate	8270D	231 J	196	118	236 J	197	119	23-200	2	30
Butyl Benzyl Phthalate	8270D	171	196	88	189	197	96	41-117	10	30
Caprolactam	8270D	129	196	66	183	197	93	36-111	35*	30
Carbazole	8270D	163	196	83	207	197	105	36-128	24	30
Chrysene	8270D	176	196	90	193	197	98	40-120	9	30
Di-n-butyl Phthalate	8270D	181 J	196	93	212 J	197	107	10-200	15	30
Di-n-octyl Phthalate	8270D	221	196	113	234	197	118	39-130	6	30
Dibenz(a,h)anthracene	8270D	211	196	108	213	197	108	22-146	<1	30
Dibenzofuran	8270D	79.9	196	41	175	197	89	22-114	75*	30
Diethyl Phthalate	8270D	135 J	196	69	183 J	197	93	28-190	30	30
Dimethyl Phthalate	8270D	120 J	196	61	178	197	90	30-106	39*	30
Fluoranthene	8270D	163	196	83	194	197	98	41-110	17	30
Fluorene	8270D	96.6	196	49	175	197	89	25-106	58*	30
Hexachlorobenzene	8270D	126	196	65	199	197	101	36-122	45*	30
Hexachlorobutadiene	8270D	45.6	196	23	175	197	89	10-120	117*	30
Hexachlorocyclopentadiene	8270D	33.4	196	17	137	197	70	10-104	122*	30
Hexachloroethane	8270D	29.7 J	196	15	155	197	78	10-110	136*	30
Indeno(1,2,3-cd)pyrene	8270D	199	196	102	198	197	100	41-137	<1	30
Isophorone	8270D	59.1	196	30 *	172	197	87	37-145	98*	30
N-Nitrosodi-n-propylamine	8270D	52.5	196	27 *	178	197	90	34-115	109*	30
N-Nitrosodiphenylamine	8270D	125	196	64	205	197	104	48-135	48*	30
Naphthalene	8270D	51.8	196	27	166	197	84	10-115	105*	30
Nitrobenzene	8270D	51.8	196	26	168	197	85	10-115	106*	30
Pentachlorophenol (PCP)	8270D	110	196	56	107	197	54	10-97	3	30
Phenanthrene	8270D	130	196	67	187	197	95	37-112	36*	30

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QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504
Sample Matrix: Soil

Service Request: R2102458
Date Analyzed: 03/24/21

Duplicate Lab Control Sample Summary
Low Level Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2102901-02			RQ2102901-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phenol	8270D	42.0	196	21	164	197	83	14-120	118*	30
Pyrene	8270D	159	196	81	195	197	99	33-124	20	30

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	EA Engineering, Science, and Technology (EAEST)	**Service Request:**	R2102458
Project	Admiral Cleaners/1602504	**Date Collected:**	03/16/21
Sample Matrix:	Soil	**Date Received:**	03/17/21
		Date Analyzed:	03/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	401075-South Sidewall-8	**Units:**	Percent
Lab Code:	R2102458-001	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102458-001DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	82.8	83.2	83.0	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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