

25 January 2022

Mr. Joshua Haugh
Division of Environmental Remediation
New York State Department of Environmental Conservation
1130 N. Westcott Road
Schenectady, New York 12306-2014

RE: Summary of Phase III Remedial Investigation Results
Contract/Work Assignment No: D009806-04
Admiral Cleaners, Watervliet, New York
Site No. 401075

Dear Mr. Haugh:

This letter provides a draft summary of analytical results for samples collected during field activities at the Admiral Cleaners Site (No. 401075) in the City of Watervliet, Albany County, New York (**Figure 1**). EA Engineering, P.C. and its affiliate EA Science and Technology (EA) completed Phase III field activities as described in the Remedial Investigation/Feasibility Study Letter Work Plan Addendum.¹

SUMMARY OF FIELD INVESTIGATION

EA performed groundwater sampling activities in January 2021 in accordance with the Addendum and Letter Work Plan.² EA collected groundwater samples from three bedrock monitoring wells (installed the week of 30 November 2020, depicted in **Figure 1**) to evaluate bedrock groundwater quality with respect to New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards (AWQS). Groundwater samples were submitted to ALS Environmental and analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) via U.S. Environmental Protection Agency (EPA) Method 8260C, TCL semi-volatile organic compounds (SVOCs) via EPA Method 8270D, Target Analyte List Metals via EPA Methods 6010C and 7471B (mercury), pesticides and polychlorinated biphenyls (PCBs) via EPA Methods 8081B and 8082A, respectively, and emerging contaminants per- and polyfluoroalkyl substances (PFAS) via modified EPA Method 537 and 1,4-dioxane via EPA Method 8270 selected ion monitoring (SIM). A summary of results is provided in **Tables 1, 2, and 3**. Field forms are included in **Attachment A**.

EA completed the first of two sampling events of select overburden monitoring wells (MW-01, MW-02, MW-07R, MW-09, and MW-12). Monitoring wells sampled were those with previous detections of tetrachloroethene (PCE) in excess of NYSDEC AWQS. EA planned to sample the overburden wells depicted on **Figure 1**. A summary of target well sampling condition is depicted in **Exhibit A**.

¹ EA. 2020. *Remedial Investigation/Feasibility Study Letter Work Plan Addendum*. 29 December.

² EA. 2018. *Remedial Investigation/Feasibility Study Letter Work Plan*. 22 March.



Exhibit A - Summary of Target Overburden Wells Sampling Condition

Well ID	Sampled (Y/N)	Reasoning
MW-01	Yes	
MW-02	Yes	
MW-03	No	Not located
MW-04	No	Not located
MW-05	No	Damaged
MW-06	No	Damaged
MW-07	No	Not located
MW-07R	Yes	
MW-09	Yes	
MW-12	Yes	
MW-13	No	Went dry

Overburden and bedrock monitoring wells sampled during this event are shown in **Figure 1**. A subset of the overburden wells was sampled for geochemical parameters as indicated on **Figure 1**. Geochemical parameters included major anions via Methods ASTM International D516, SM 2320B, and SM4500, total organic carbon via Method SM 5310C, and dissolved gasses (methane, ethane, ethene) via EPA Method RSK175. Overburden monitoring wells with previous detections of PCE in excess of NYSDEC AWQS were sampled for TCL VOCs via EPA Method 8260C. EA intended to collect samples for PFAS via EPA Method 537, and 1,4-dioxane via EPA Method 8270 SIM from select overburden monitoring wells; however, during the first day of sampling, tubing was found in the monitoring well casings. The material of tubing could not be definitively determined in the field. To prevent possible cross contamination of samples, the tubing in the well was removed so that PFAS and 1,4-dioxane sampling and analysis could be performed at a later date. Results of the bedrock and overburden monitoring well sampling is presented in **Tables 1 through 4** and depicted on **Figures 2 through 4**.

SUMMARY OF RESULTS

Bedrock groundwater samples collected during Phase III of the RI indicates elevated VOC concentrations in groundwater at the site. Samples from monitoring wells MW-18, MW-19, and MW-20 contained at least one of Cis-1,2-DCE, PCE, TCE, or vinyl chloride in exceedance of NYSDEC AWQS. Also present were 1,1-Dichloroethene and trans-1,2-Dichloroethene. There were no detections for any SVOCs, pesticides, or PCBs in samples collected from these wells. Samples from monitoring wells MW-18, MW-19, and MW-20 contained barium, iron, magnesium, manganese, and sodium in exceedance of NYSDEC AWQS. The sample from MW-18 also contained arsenic in exceedance of NYSDEC AWQS. Totals of perfluorooctanesulfonic acid and perfluorooctanoic acid was in exceedance of Preliminary Target Values under NYSDEC Part 375 Remedial Programs (January 2021) for all three wells. Samples from monitoring wells MW-18 and MW-20 contained 1,4-Dioxane slightly over the NYS maximum contaminant (MCL) of 1 ppb.

Overburden groundwater samples collected during Phase III of the RI indicates elevated VOC concentrations in groundwater at the site. Samples from monitoring wells MW-01, MW-02,



MW-07R, MW-09, and MW-12 contained at least one exceedance of NYSDEC AWQS for the following analytes: Cis-1,2-DCE, PCE, TCE, or vinyl chloride. The evaluation of MNA parameters was limited due to several overburden wells that were found to be damaged or lost. MNA parameters will be evaluated following the replacement of select overburden monitoring wells and discussed in the Remedial Investigation Report.

Analytical results for groundwater samples are provided in **Attachment B** as preliminary only and have not been validated by an independent third party.

REPLACEMENT MONITORING WELL SAMPLING

EA intends to mobilize to the Site and install five 2-inch (in.) permanent overburden groundwater monitoring wells to replace the five that were either damaged or unable to be located after the building demolition. These wells include MW-03, MW-04, MW-05, MW-06, and MW-07. Upon the completion of well installation and well development EA will repeat this sampling event with all the target wells. Sampling results from this event will be presented in the Remedial Investigation Report.

Sincerely yours,

EA SCIENCE AND TECHNOLOGY

A handwritten signature in black ink that reads "Emily Cummings". The signature is written in a cursive, flowing style.

Emily Cummings
Project Manager

EA ENGINEERING, P.C.

A handwritten signature in black ink that reads "Donald F. Conan". The signature is written in a cursive, flowing style.

Donald F. Conan, P.E., P.G.
Program Manager



Figures

- 1 Remedial Investigation Phase III Monitoring Well Sampling Plan
- 2 Detections of VOCs in Groundwater
- 3 Detections of Metals in Groundwater
- 4 Detections of PFAS and 1,4-Dioxane in Groundwater

Tables

- 1 Summary of VOCs Detected in Groundwater Samples (January 2021)
- 2 Summary of Other Detected Analytes in Groundwater Samples (January 2021)
- 3 Summary of Monitored Natural Attenuation Parameters (January 2021)
- 4 Summary of 1,4-Dioxane and PFAS Detected in Groundwater Samples (January 2021)

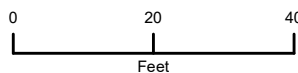
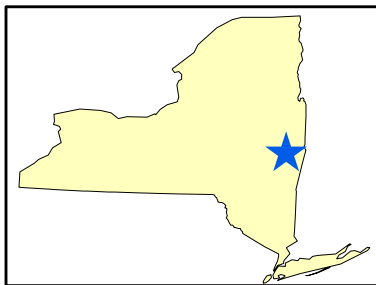
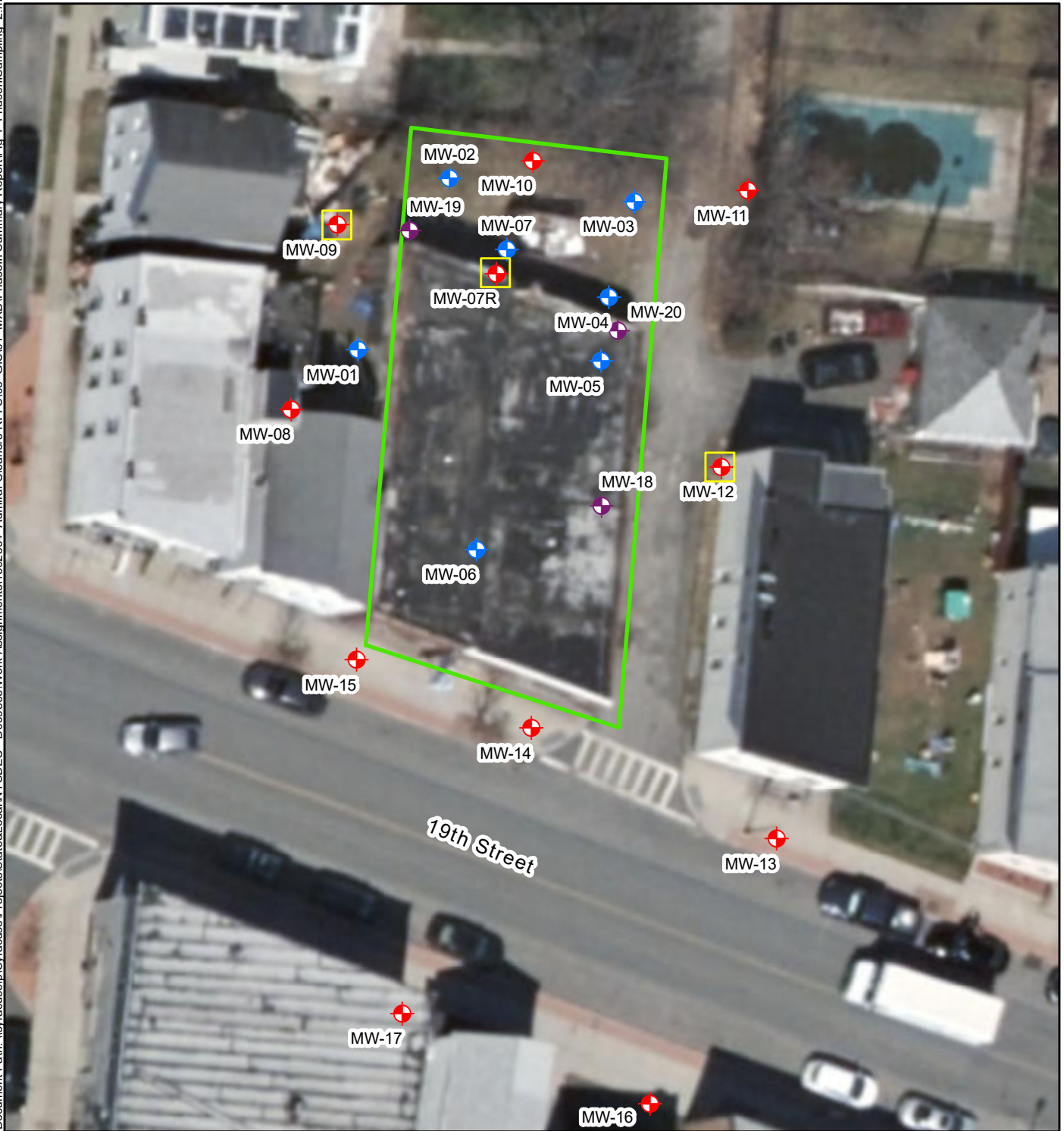
Attachments

- A Field Forms – Calibration Forms, Purge Logs, and Daily Field Reports
- B Laboratory Analytical Results

This page left intentionally blank

Figures

This page left intentionally blank



Legend

-  Phase I Monitoring Wells (Overburden)
-  Phase II Monitoring Wells (Overburden)
-  Phase III Monitoring Wells (Bedrock)
-  Well Sampled for MNA Parameters
-  Admiral Cleaners Site Boundary
-  Site Location

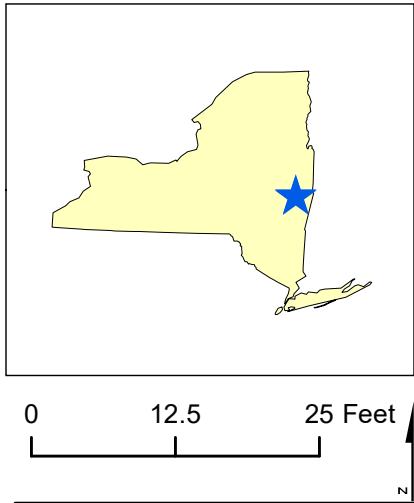
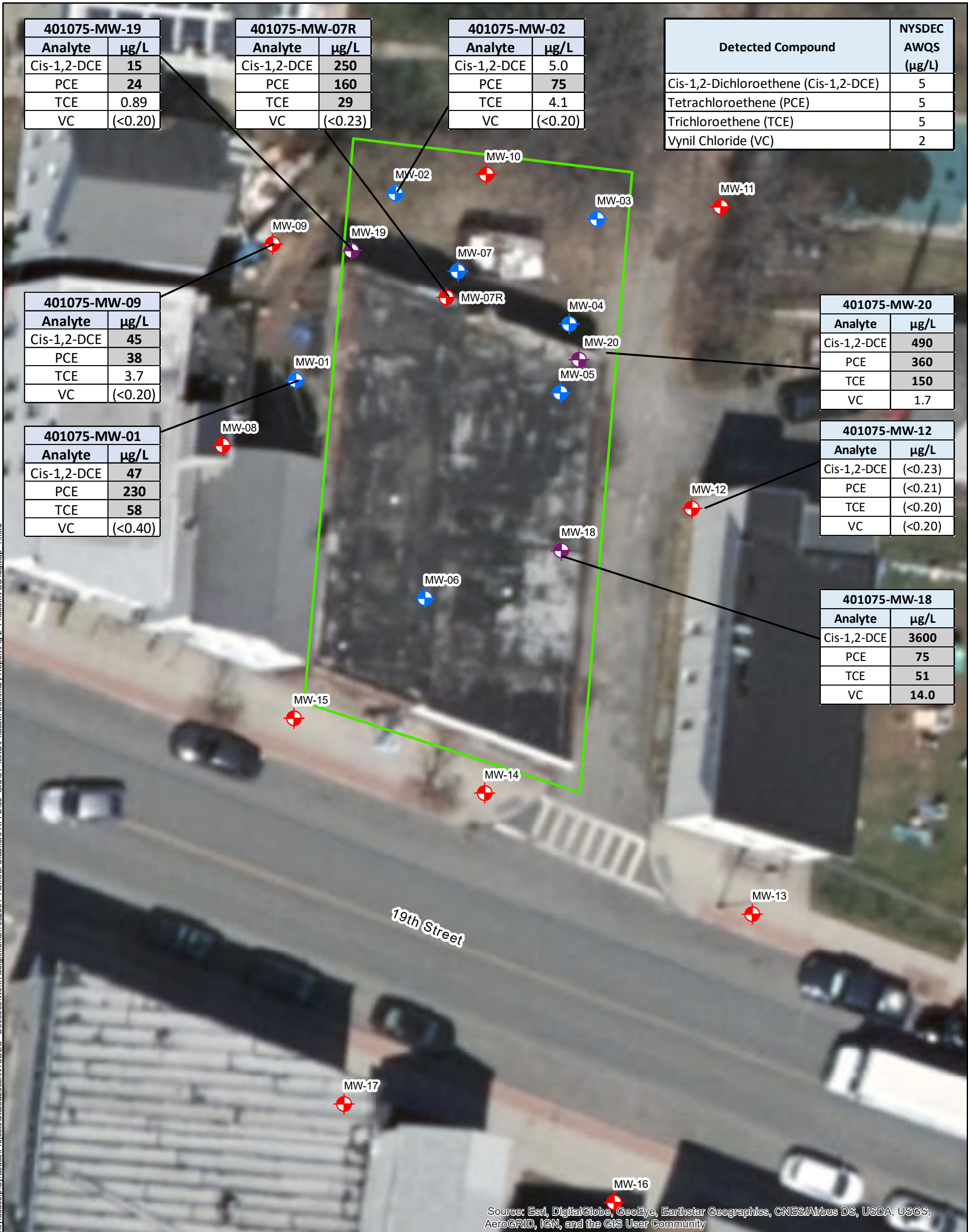
Figure 1
Remedial Investigation Phase III
Monitoring Well Sampling
January 2021

Admiral Cleaners
Watervliet, Albany County, NY

Map Date: 1/25/2022
Projection: NAD 1983 State Plane New York
East FIPS 3101 Feet



\\syracusefp\Syracuse\Projects\State&Local\NYSDEC - D009806\Work Assignments\1602504 Admiral Cleaners-RI\FS\06 GIS\01 MXD\PhaseIII Summary Report\Fig-2 PhaseII\VOCTagMap 1.mxd



Legend

- Phase I Monitoring Wells (Overburden)
- Phase II Monitoring Wells (Overburden)
- Phase III Monitoring Wells (Bedrock)
- Admiral Cleaners Site Boundary
- Site Location

NOTE:
Bold and shaded values indicate that the analyte was detected greater than the applicable Guidance Values
PFOS = Perfluorooctanesulfonic acid
PFOA = Perfluorooctanoic acid
J = Result is estimated concentration.
µg/L = Microgram(s) per liter
ng/L = Nanogram(s) per liter

Figure 2
Remedial Investigation Phase III
Detections of VOCs in Groundwater
January 2021

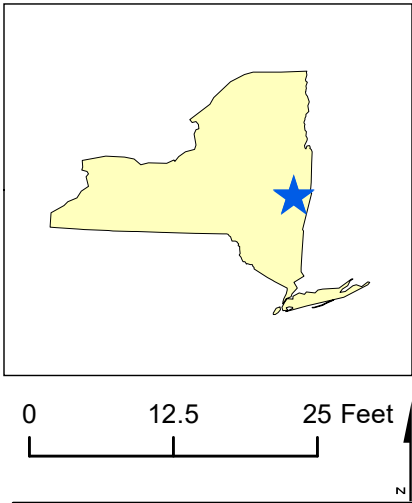
Admiral Cleaners
Watervliet, Albany County, NY

Map Date: 1/25/2022
Projection: NAD 1983 State Plane New York
East FIPS 3101 Feet



Department of
Environmental
Conservation





Legend

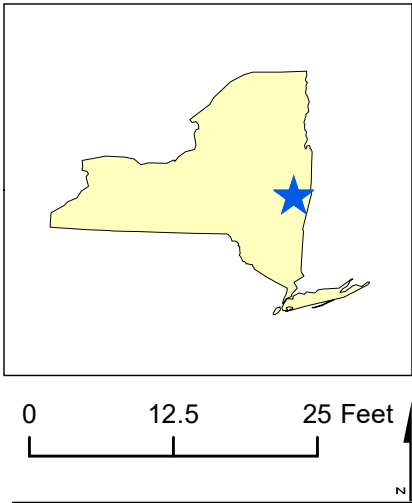
- Phase I Monitoring Wells (Overburden)
- Phase II Monitoring Wells (Overburden)
- Phase III Monitoring Wells (Bedrock)
- Admiral Cleaners Site Boundary
- Site Location

NOTE:
Bold and shaded values indicate that the analyte was detected greater than the applicable Guidance Values
PFOS = Perfluorooctanesulfonic acid
PFOA = Perfluorooctanoic acid
J = Result is estimated concentration.
µg/L = Microgram(s) per liter
ng/L = Nanogram(s) per liter

Figure 3
Remedial Investigation Phase III
Detections of Metals in Groundwater
January 2021

Admiral Cleaners
Watervliet, Albany County, NY

Map Date: 1/25/2022
Projection: NAD 1983 State Plane New York
East FIPS 3101 Feet



Legend

- Phase I Monitoring Wells (Overburden)
- Phase II Monitoring Wells (Overburden)
- Phase III Monitoring Wells (Bedrock)
- Admiral Cleaners Site Boundary
- Site Location

NOTE:
Bold and shaded values indicate that the analyte was detected greater than the applicable Guidance Values
PFOS = Perfluorooctanesulfonic acid
PFOA = Perfluorooctanoic acid
J = Result is estimated concentration.
µg/L = Microgram(s) per liter
ng/L = Nanogram(s) per liter

Figure 4
Remedial Investigation Phase III
Detections of PFAS and 1,4-Dioxane in Groundwater
January 2021

Admiral Cleaners
Watervliet, Albany County, NY

Map Date: 1/25/2022
Projection: NAD 1983 State Plane New York
East FIPS 3101 Feet

Tables

This page left intentionally blank

Table 1 Summary of VOCs Detected in Groundwater Samples (January 2021)

Analyte		Sample ID	401075-MW-01		401075-MW-02		401075-MW-07R		401075-MW-09		401075-MW-12		401075-MW-12b ¹		401075-MW-18		401075-MW-19		401075-MW-20		401075-DUP-010621 ²		NYSDEC Ambient Water Quality Standards
		Laboratory ID	R2100209-003		R2100149-003		R2100082-001		R2100149-004		R2100209-001		R2100209-002		R2100149-002		R2100082-002		R2100149-001		R2100149-001		
		Sample Date	1/6/2021		1/6/2021		1/5/2021		1/6/2021		1/6/2021		1/7/2021		1/6/2021		1/5/2021		1/6/2021		1/6/2021		
VOCs via EPA Method 8260C ³																							
		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1-Dichloroethene	µg/L	(<0.40)	U	(<0.20)	U	0.32	U	(<0.20)	U	(<0.20)	U	NS	5.7	J	(<0.20)	U	1.2	J	6.2	J	5		
Chloroform	µg/L	0.54	J	(<0.24)	U	(<0.24)	U	(<0.24)	U	(<0.24)	U		(<4.8)	U	(<0.24)	U	1.4	J	6.1	J	7		
Cis-1,2-Dichloroethene	µg/L	47	D	5.0	J	250	D	45		(<0.23)	U		3600		15		490	J	3400		5		
Tetrachloroethene	µg/L	230	U	75	U	160	U	38	U	(<0.21)	U		75	J	24		360		72	J	5		
Trichloroethene	µg/L	58	D	4.1	J	29		3.7	J	(<0.20)	U		51	J	0.89	J	150		54	J	5		
Vinyl Chloride	µg/L	(<0.40)	U	(<0.20)	U	(<0.23)	U	(<0.20)	U	(<0.20)	U		14	J	(<0.20)	U	1.7	J	15	J	2		
trans-1,2-Dichloroethene	µg/L	3.1	J	(<0.20)	U	0.99	J	1.0	J	(<0.20)	U		7.2	J	(<0.20)	U	1.0	J	7.7	J	5		
Notes:																							
¹ MW-12 went dry during sampling, remaining analytes were collected on 1/7/21 for MNA parameters.																							
² DUPLICATE sample, 401075-DUP-010621, was collected at MW-18.																							
³ Analytical data results provided by ALS Environmental. Data presented in this table is preliminary, unvalidated data.																							
µg/L = Microgram(s) per liter = parts per billion																							
EPA = U.S. Environmental Protection Agency																							
ID = Identification																							
EPA = U.S. Environmental Protection Agency																							
MNA = Monitored natural attenuation																							
NS = Not sampled																							
VOC = Volatile organic compound																							
Q = Qualifier																							
J = Result is estimated concentration.																							
U = Analyte was analyzed for, but not detected below the laboratory detection limit.																							
D = Indicates the compound concentration is the result of a dilution.																							
Bold and shaded values indicate that the analyte was detected greater than the NYSDEC Ambient Water Quality Standards.																							

Table 2 Summary of Other Detected Analytes in Groundwater Samples (January 2021)

Analyte	Sample ID	401075-MW-18	401075-MW-19	401075-MW-20	401075-DUP-010621 ¹	NYSDEC AWQS Class GA Groundwater		
	Laboratory ID	R2100149-002	R2100082-002	R2100149-001	R2100149-001			
	Sample Date	1/6/2021	1/5/2021	1/6/2021	1/6/2021			
	Sample Type	Groundwater	Groundwater	Groundwater	Groundwater			
SVOCs by EPA Method 8270D ²								
--	µg/L	No Detections				--		
Pesticides by EPA Method 8081B ²								
--	µg/L	No Detections				--		
PCBs by EPA Method 8082A ²								
--	µg/L	No Detections				--		
Metals by EPA Method 6010 ²								
		Result	Q	Result	Q	Result	Q	
Aluminum	µg/L	(<23.0)	U	505		(<23.0)	U	--
Arsenic	µg/L	5.6	J	(<5.5)	U	(<5.5)	U	0.025
Barium	µg/L	281		159		169		1
Calcium	µg/L	111000		41700		104000		--
Chromium	µg/L	(<0.590)	U	0.7	J	(<0.590)	U	
Cobalt	µg/L	(<0.890)	U	(<0.890)	U	(<0.890)	U	--
Copper	µg/L	(<3.9)	U	(<3.9)	U	(<3.9)	U	0.2
Iron	µg/L	1610		715		1740		0.3
Lead	µg/L	(<2.1)	U	2.7	J	(<2.1)	U	
Magnesium	µg/L	51400		14000		44100		35
Manganese	µg/L	1830		306		1010		0.3
Mercury	µg/L	(<0.077)	U	(<0.077)	U	(<0.077)	U	0.0007
Potassium	µg/L	10000		12200		12400		--
Sodium	µg/L	129000		39500		141000		20
Vanadium	µg/L	(<0.670)	U	1.8	J	(<0.670)	U	--
Zinc	µg/L	(<9.4)	U	(<9.4)	U	(<9.4)	U	--
Notes:								
¹ DUPLICATE sample, 401075-DUP-010621, was collected at MW-18								
² Analytical data results provided by Con-Test Analytical. Data presented in this table is preliminary, unvalidated data.								
Notes:								
mg/L = Milligram(s) per liter = parts per million								
µg/L = Microgram(s) per liter = parts per billion								
AWQS = Ambient Water Quality Standard								
EPA = U.S. Environmental Protection Agency								
ID = Identification								
NS = Not sampled								
NYSDEC = New York State Department of Environmental Conservation								
SVOC = Semi-volatile organic compound								
Q = Qualifier								
J = Result is estimated concentration.								
U = Analyte was analyzed for, but not detected below the laboratory detection limit.								
Bold and shaded values indicate that the analyte was detected greater than the NYSDEC AWQS.								

Table 3 Summary of Monitored Natural Attenuation Parameters (January 2021)¹

Analyte	Sample ID	401075-MW-07R	401075-MW-09	401075-MW-12	401075-MW-12b ²				
	Laboratory ID	R2100082-001	R2100149-004	R2100209-001	R2100209-002				
	Sample Date	1/5/2021	1/6/2021	1/6/2021	1/7/2021				
	Sample Type	Groundwater	Groundwater	Groundwater	Groundwater				
Dissolved Gases via EPA Method RSK175 ³									
		Result	Q	Result	Q	Result	Q	Result	Q
Ethane	mg/L	(<0.17)	U	(<0.17)	U	(<0.17)	U	---	-
Ethylene	mg/L	(<0.35)	U	(<0.35)	U	(<0.35)	U	---	-
Methane	mg/L	(<0.75)	U	(<0.75)	U	13		---	-
Propane	mg/L	(<0.28)	U	(<0.28)	U	(<0.28)	U	---	-
Major Anions via ASTM D516, SM2320B, and SM4500 ³									
Sulfate	mg/L	145		36.4		NS		4.6	-
Alkalinity	mg/L	197		56.0				64	
Nitrite as N	mg/L	(<0.2)	U	(<0.2)	U			0.2	J
Nitrate as N	mg/L	4		10.9				0.4	J
Total Organic Carbon via SM 5310B ³									
Total Organic Carbon	mg/L	4.4		2.5		8.0			
Notes:									
¹ Only select overburden monitoring wells were sampled for MNA parameters.									
² DUPLICATE sample, 401075-DUP-010621, was collected at MW-18.									
³ Analytical results provided by ALS Environmental. Data presented in this table is preliminary, unvalidated data.									
mg/L = Milligram(s) per liter									
EPA = U.S. Environmental Protection Agency									
ID = Identification									
MNA = Monitored natural attenuation									
NS = Not sampled									
Q = Qualifier									
U = Analyte was analyzed for, but not detected									

Table 4 Summary of 1,4-Dioxane and PFAS Detected in Groundwater Samples (January 2021)¹

Analyte	Sample ID	401075-MW-18	401075-MW-19	401075-MW-20	401075-DUP-010621 ²	Guidance Values				
	Laboratory ID	R2100149-002	R2100082-002	R2100149-001	R2100149-005					
	Sample Date	1/6/2021	1/5/2021	1/6/2021	1/6/2021					
	Sample Type	Groundwater	Groundwater	Groundwater	Groundwater					
1,4-Dioxane via EPA Method 8270 SIM ³										
		Result	Q	Result	Q	Result	Q	Result	Q	
1,4-Dioxane (P-Dioxane)	µg/L	2.3	E	0.20		2.4	E	2.3	E	0.35 ⁴
PFCs via EPA Method 537 ⁴										
Perfluorooctanesulfonic acid (PFOS)	ng/L	16		22		16		16		10 ⁵
Perfluorooctanoic acid (PFOA)	ng/L	23		25		22		23		10 ⁵
Total of PFOS and PFOA	ng/L	39		47		38		39		10 ⁵
N-methylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ng/L	1.3	J	(<1.1)	U	1.3	J	1.3	J	--
Perfluorobutanesulfonic acid (PFBS)	ng/L	0.82	J	7.8		0.76	JI	0.82	J	--
Perfluorohexanoic acid (PFHxA)	ng/L	5.7		25		6		5.7		--
Perfluoroheptanoic acid (PFHpA)	ng/L	5.4		9.3		5.7		5.4		--
Perfluoroheptanesulfonic acid (PFHpS)	ng/L	0.33	J	0.53	J	(<0.18)	U	0.33	J	--
Perfluorobutanoic acid (PFBA)	ng/L	55		12		60		55		--
Perfluoropentanoic acid (PFPeA)	ng/L	4.7		24		4.9		4.7		--
Perfluorohexanesulfonic acid (PFHxS)	ng/L	1.8	J	5.1		2		1.8	J	--
Perfluorononanoic acid (PFNA)	ng/L	(<0.26)	U	0.98	J	(<0.25)	U	(<0.26)	U	--
Perfluorodecanoic acid (PFDA)	ng/L	(<0.29)	U	(<0.29)	U	(<0.29)	U	(<0.29)	U	--
NOTES:										
¹ Data presented in this table is preliminary, unvalidated data.										
² DUPLICATE sample, 401075-DUP-010621, was collected at MW-18										
³ U.S. Environmental Protection Agency (EPA)'s Integrated Risk Information System for drinking water representing a 1 x 10 ⁻⁶ cancer risk level (2013).										
⁴ Analytical data results provided by Eurofins TestAmerica.										
⁵ Preliminary Target Values under NYSDEC Part 375 Remedial Programs (January 2021).										
µg/L = Microgram(s) per liter										
ng/L = Nanogram(s) per liter										
ID = Identification										
PFC = Perfluorinated compound										
E = Result exceeded calibration range										
I = Value is estimated maximum possible concentration										
J = Result is estimated concentration.										
U = Analyte was analyzed for, but not detected below the laboratory detection limit.										
Bold and shaded values indicate that the analyte was detected greater than the Guidance Values										

Attachment A

Field Forms

- Calibration Forms
- Daily Field Reports
- Purge Logs

This page left intentionally blank

DAILY INSPECTION REPORT

Page 1 of 5

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**Date: **1/5/2021**

 NYSDEC Division of Environmental Remediation		 Department of Environmental Conservation		EA Engineering, P.C. 269 W Jefferson St Syracuse, New York 13202				EA Contract No. D009806 NYSDEC PMs: Josh Haugh & David Chiusano EA PM: Chris Schroer EA Site Inspector: Noah Robinson	
Site Location: Watervliet, New York									
Weather Conditions									
General Description	Cloudy, light snow	AM	Cloudy		PM				
Temperature	32	AM	36		PM				
Wind	None	AM	None		PM				
Health & Safety									
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".									
Were there any changes to the Health & Safety Plan?						*Yes	No ☒	NA	
Were there any exceedances of the perimeter air monitoring reported on this date?						*Yes	No ☒	NA	
Were there any nuisance issues reported/observed on this date?						*Yes	No ☒	NA	
Health & Safety Comments									
None									
Summary of Work Performed		Arrived at site:		0745		Departed Site:		1700	
E. Cummings, J. Guy and N. Robinson (EA) arrived onsite at 0745. A quick health and safety briefing commenced and then EA began attempting to locate overburden monitoring wells. EA was able to locate all wells besides MW-07, MW-03 and MW-04. MW-05 and MW-06 were both destroyed from construction and had sediment lodged in the open PVC casing. MW-07's well casing and cover were found destroyed buried in soil. EA was unable to locate the PVC riser of MW-07 in the soil. Calibration for water quality instruments began 0915. EA set up on well MW-7R and began purging 0945. EA collected samples 1011. EA then mobilized to well MW-19 and began purging 1112. EA collected samples 1154. EA mobilized to MW-02 and began purging 1245. MW-02 went dry 1247. EA then attempted to purge MW-05 and MW-06 which was unsuccessful. N. Robinson and J. Guy mobilized to MW-01 which was dry on purge 1335. E. Cummings gauged MW-13 and found the well dry. N. Robinson and J. Guy mobilized to MW-09 and began purge 1417. MW-09 went dry 1500. EA mobilized to MW-12, began purge 1530 and went dry 1534. EA completed equipment blank 1610 and field blank 1615. EA offsite 1700.									
Equipment/Material Tracking									
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".									
Were there any vehicles which did not display proper D.O.T numbers and placards?						*Yes	No ☒	NA	
Were there any vehicles which were not tarped?						* Yes	No ☒	NA	
Were there any vehicles which were not decontaminated prior to exiting the work site?						* Yes	No ☒	NA	
Personnel and Equipment									
Individual		Company		Trade		Total Hours			
Noah Robinson		EA Engineering				9.25			
Emily Cummings		EA Engineering				9.25			
Jake Guy		EA Engineering				9.25			

DAILY INSPECTION REPORT

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**

Date: 1/5/2021

Date: 1/5/2021

[illegible][illegible]

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

DAILY INSPECTION REPORTReport No. **Admiral Cleaners - NYSDEC Site No. 401075**Date: **1/5/2021**

Visitors to Site			
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
Site Representatives			
Name	Representing		
Project Schedule Comments			
Issues Pending			
Interaction with Public, Property Owners, Media, etc.			
E. Cumming spoke with A. Gagliardi about access to backyard to sample MW-01 and MW-09			

DAILY INSPECTION REPORT

Page 4 of 5

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**

Date: **1/5/2021**

Site Photographs (Descriptions Below)



Tubing from MW-06



Tubing from MW-09

Comments

Site Inspector(s): Noah Robinson

Date: 1/5/21

DAILY INSPECTION REPORT

Page 5 of 5

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**Date: **1/5/2021****DAILY HEALTH CHECKLIST**

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
<u>Comments:</u> 		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A ☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A ☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A ☐
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A ☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> 			

DAILY INSPECTION REPORT

Page 1 of 5

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**Date: **1/6/2021**

 NYSDEC Division of Environmental Remediation		 Department of Environmental Conservation		EA Engineering, P.C. 269 W Jefferson St Syracuse, New York 13202				EA Contract No. D009806 NYSDEC PMs: Josh Haugh & David Chiusano EA PM: Chris Schroer EA Site Inspector: Noah Robinson	
Site Location: Watervliet, New York									
Weather Conditions									
General Description	Cloudy	AM	Cloudy	PM					
Temperature	28	AM	34	PM					
Wind	None	AM	None	PM					
Health & Safety									
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".									
Were there any changes to the Health & Safety Plan?					*Yes	No ☒	NA		
Were there any exceedances of the perimeter air monitoring reported on this date?					*Yes	No ☒	NA		
Were there any nuisance issues reported/observed on this date?					*Yes	No ☒	NA		
Health & Safety Comments									
None									
Summary of Work Performed		Arrived at site:		0730	Departed Site:		1700		
J. Guy and N. Robinson (EA) arrived onsite at 0730. A quick health and safety briefing commenced and began calibrating equipment 0740. EA set up on MW-20 and began purging 0804. EA collected sample at MW-20 0910 with an MS/MSD. EA mobilized and set up at MW-18 1019. EA began purging MW-18 1029 and collects samples at 1123 with Duplicate. EA collected Field blank 1225 and Equipment blank 1230. EA then mobilized to MW-02 to sample after the well went dry the day before. EA collected sample MW-02 1325. EA mobilized to MW-01 and gauged the well to determine how much volume was in the well. It was determined to allow MW-01 recharge longer than the suggest 24 hour period. EA moved to MW-09 and began purge and sample 1450. MNA samples were collected at MW-09 instead of MW-01 due to volume concerns at MW-01. EA mobilized to MW-12 and began sampling at a low flow rate due to volume concerns at 1520. All but Alkalinity and Anions were collected due to MW-12 going dry at 1525. EA returned to MW-01 to attempt to collect samples with a 1 inch bailer. However, there was only enough volume for 1 and ¾ of VOA vials. EA returned to MW-12 to attempt with a bailer but was unsuccessful with collecting water. EA will return tomorrow (1/7/2021) to collect MW-01 and MW-12 samples. EA offsite 1700.									
Equipment/Material Tracking									
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".									
Were there any vehicles which did not display proper D.O.T numbers and placards?					*Yes	No ☒	NA		
Were there any vehicles which were not tarped?					* Yes	No ☒	NA		
Were there any vehicles which were not decontaminated prior to exiting the work site?					* Yes	No ☒	NA		
Personnel and Equipment									
Individual	Company		Trade		Total Hours				
Noah Robinson	EA Engineering				9.5				
Jake Guy	EA Engineering				9.5				

DAILY INSPECTION REPORT Page 2 of 5
 Report No. **Admiral Cleaners - NYSDEC Site No. 401075** Date: **1/6/2021**

DAILY INSPECTION REPORT Page 2 of 5
 Report No. **Admiral Cleaners - NYSDEC Site No. 401075** Date: **1/6/2021**

DAILY INSPECTION REPORT Page 2 of 5
 Report No. **Admiral Cleaners - NYSDEC Site No. 401075** Date: **1/6/2021**

DAILY INSPECTION REPORT Page 2 of 5
 Report No. **Admiral Cleaners - NYSDEC Site No. 401075** Date: **1/6/2021**

[illegible]

DAILY INSPECTION REPORTReport No. **Admiral Cleaners - NYSDEC Site No. 401075**Date: **1/6/2021**

Visitors to Site			
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
Site Representatives			
Name	Representing		
Project Schedule Comments			
Issues Pending			
Interaction with Public, Property Owners, Media, etc.			
N/A			

DAILY INSPECTION REPORT

Report No. Admiral Cleaners - NYSDEC Site No. 401075

Date: 1/6/2021

Date: 1/6/2021

[illegible]

DAILY INSPECTION REPORT

Page 5 of 5

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**Date: **1/6/2021****DAILY HEALTH CHECKLIST**

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
<u>Comments:</u> 		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A ☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A ☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A ☐
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A ☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> 			

DAILY INSPECTION REPORT

Report No. Admiral Cleaners - NYSDEC Site No. 401075

Page 1 of 5

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**

Date: 1/7/2021

[illegible]

DAILY INSPECTION REPORT

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**

Date: 1/7/2021

Admiral Cleaners - NYSDEC Site No. 401075

Date: 1/7/2021

[illegible]

DAILY INSPECTION REPORTReport No. **Admiral Cleaners - NYSDEC Site No. 401075**Date: **1/7/2021**

Visitors to Site			
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
Site Representatives			
Name	Representing		
Project Schedule Comments			
Issues Pending			
Interaction with Public, Property Owners, Media, etc.			

DAILY INSPECTION REPORT

Report No. Admiral Cleaners - NYSDEC Site No. 401075

Page 4 of 5
Date: 1/7/2021

Date: 1/7/2021

[illegible]

DAILY INSPECTION REPORT

Page 5 of 5

Report No. **Admiral Cleaners - NYSDEC Site No. 401075**Date: **1/7/2021****DAILY HEALTH CHECKLIST**

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
<u>Comments:</u> 		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A ☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A ☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A ☐
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A ☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> 			

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-01	EA Personnel: N. Robinson; J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good	Weather: 36 F / Overcast
Sounding Method: WLM	Gauge Date: 5-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1355	Well Diameter (in): 1

Purge Date: 5-Jan-21	Purge Time: 1359
Purge Method: Peristaltic Pump	Field Technician: N. Robinson; J. Guy

Well Volume

A. Well Depth (ft): 7.64	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 6.72	E. Well Volume (gal) C*D): 0.03772	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 0.92	F. Three Well Volumes (gal) (E3): 0.11316	Pump Intake Depth: 6

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):		-	Sampling Time:	1535
Samplers:	NR/JG		Split Sample With:	
Sampling Date:		1/6/2021	Sample Type:	

COMMENTS AND OBSERVATIONS:

PID = 0.0 ppm

EA attempted to collect sample from MW-01 after allowing well to recharge. Collected with bailer since there was not enough water to entrain in the tubing for the peristaltic pump. Only was able to collect 1 vial from MW-01

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-02	EA Personnel: N. Robinson; J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good; 1 bolt broken	Weather: 36 F / Overcast
Sounding Method: WLM	Gauge Date: 7-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1200	Well Diameter (in): 1

Purge Date: 5-Jan-21	Purge Time: 1245
Purge Method: Peristaltic Pump	Field Technician: N. Robinson; J. Guy

Well Volume

A. Well Depth (ft): 9.34	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 5.2	E. Well Volume (gal) C*D): 0.16974	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 4.14	F. Three Well Volumes (gal) (E3): 0.50922	Pump Intake Depth: 8

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	-	Sampling Time:	1325
Samplers:	NR/JG	Split Sample With:	-
Sampling Date:	1/6/2021	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:	PID = 0.0 ppm
Water level not collected during purging, planned to collect PFAS.	

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-05	EA Personnel: N. Robinson; J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good; 1 bolt broken	Weather: 36 F / Overcast
Sounding Method: WLM	Gauge Date: 7-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1203	Well Diameter (in): 1

Purge Date: 5-Jan-21	Purge Time: 1315
Purge Method: Peristaltic Pump	Field Technician: N. Robinson; J. Guy

Well Volume

A. Well Depth (ft): 9.72	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 6.35	E. Well Volume (gal) C*D):	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): -	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: -

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	-	Sampling Time:	
Samplers:		Split Sample With:	
Sampling Date:		Sample Type:	

COMMENTS AND OBSERVATIONS:

PID = 40.8 ppm

EA attempted to purge MW-05 on 1/5/21. MW-05 damaged during IRM No. 1; Casing broken at grade, debris in well getting readings on WLM but not water to be purged; DTW / DTB measurements collected on 1/7/21

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-06	EA Personnel: N. Robinson; J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good; 1 bolt broken	Weather: 36 F / Overcast
Sounding Method: WLM	Gauge Date: 7-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1205	Well Diameter (in): 1

Purge Date: 5-Jan-21	Purge Time: 1257
Purge Method: Peristaltic Pump	Field Technician: N. Robinson; J. Guy

Well Volume

A. Well Depth (ft): 9.94	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 6.6	E. Well Volume (gal) C*D):	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): -	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: -

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	-	Sampling Time:	
Samplers:		Split Sample With:	
Sampling Date:		Sample Type:	

COMMENTS AND OBSERVATIONS:

EA attempted to purge MW-06 on 1/5/21. MW-06 damaged during IRM No. 1; Casing broken at grade, debris in well; getting readings on WLM but not water to be purged; DTW / DTB measurements collected on 1/7/21



EA Engineering, P.C.
EA Science and Technology



Department of
Environmental
Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-09	EA Personnel: N. Robinson; J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good; 1 bolt broken	Weather: 36 F / Overcast
Sounding Method: WLM	Gauge Date: 5-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1412	Well Diameter (in): 2

Purge Date: 5-Jan-21	Purge Time: 1428
Purge Method: Peristaltic Pump	Field Technician: N. Robinson; J. Guy

Well Volume

A. Well Depth (ft): 9.39	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 5.59	E. Well Volume (gal) C*D): 0.6194	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 3.8	F. Three Well Volumes (gal) (E3): 1.8582	Pump Intake Depth: -

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1432	5.66	7.51	140.00	0.377	15.80	5.28	6.00	0.275	-
1435	5.93	6.78	160	0.376	15.7	2.66	6.30	0.275	0.83
1438	6.25	6.45	169	0.372	11.9	2.45	6.60	0.275	1.65
1441	6.51	6.31	171	0.376	3.1	1.50	6.55	0.275	2.48
1444	6.78	6.29	170	0.381	0.2	1.10	7.35	0.275	3.30
1447	6.94	6.26	168	0.39	0	0.83	7.54	0.275	4.13
1450	7.09	6.33	164	0.43	0	0.75	7.91	0.275	4.95
1453	7.2	6.38	163	0.43	0	0.84	8.10	0.275	5.78
1456	7.32	6.38	163	0.428	0	0.88	8.40	0.275	6.60
1459	7.45	6.25	173	0.401	0	4.49	8.46	0.275	7.43
1500	DRY	-	-	-	-	-	-	-	-
1/6/21 1500	8.28	7.1	170	0.408	140	8.15	-	-	-

Total Quantity of Water Removed (L):	7.43	Sampling Time:	1450
Samplers:	N. Robinson; J. Guy	Split Sample With:	-
Sampling Date:	1/6/2021	Sample Type:	Grab

COMMENTS AND OBSERVATIONS: PID = 1.4 ppm
Well purged dry 1/5/21 at 1500; allowed well to recharge. Collected VOC and MNA samples here instead of MW-01 b/c MW-01 was dry.

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-12	EA Personnel: N. Robinson; J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good; 1 bolt broken	Weather: 35 F / Overcast
Sounding Method: WLM	Gauge Date: 5-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1524	Well Diameter (in): 1

Purge Date: 5-Jan-21	Purge Time: 1530
Purge Method: Peristaltic Pump	Field Technician: N. Robinson; J. Guy

Well Volume

A. Well Depth (ft): 6.05	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 4.44	E. Well Volume (gal) C*D): 0.06601	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 1.61	F. Three Well Volumes (gal) (E3): 0.19803	Pump Intake Depth: -

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (L):		0.00	Sampling Time:	1/6/21 @ 1450; 1/7/21 @ 1055
Samplers:		N. Robinson; J. Guy	Split Sample With:	-
Sampling Date:		1/6/2021 - 1/7/2021	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

PID = 1.1 ppm

Well purged dry 1/5/21 at 1534; allowed well to recharge. Unable to collect all bottleware for VOCs and MNA on 1/6/21

Collected remaining analytes on 1/7/21 (anions and alkalinity); Not enough volume in well to collect WQM readings

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13	EA Personnel: E. Cummings	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good	Weather: 35 F / Overcast
Sounding Method: WLM	Gauge Date: 5-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1345	Well Diameter (in): 1

Purge Date: 5-Jan-21	Purge Time: 1345
Purge Method: Peristaltic Pump	Field Technician: E. Cummings

Well Volume

A. Well Depth (ft): 4.4	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 4.4	E. Well Volume (gal) C*D): 0	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 0	F. Three Well Volumes (gal) (E3): 0	Pump Intake Depth: -

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (L):	0.00	Sampling Time:	
Samplers:	E. Cummings	Split Sample With:	-
Sampling Date:		Sample Type:	

COMMENTS AND OBSERVATIONS:	PID = 0 ppm
	Well dry.



EA Engineering, P.C.
EA Science and Technology



Department of
Environmental
Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-18	EA Personnel: N. Robinson / J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good	Weather: 30 F / Overcast
Sounding Method: WLM	Gauge Date: 7-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1151	Well Diameter (in): 2

Purge Date: 6-Jan-21	Purge Time: 1029
Purge Method: Peristaltic Pump	Field Technician: N. Robinson / J. Guy

Well Volume

A. Well Depth (ft): 23.65	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 6.7	E. Well Volume (gal) C*D): 2.76285	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 16.95	F. Three Well Volumes (gal) (E3): 8.28855	Pump Intake Depth: -

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1032	8.81	6.59	51.00	1.620	20.70	2.03	-	0.40	-
1035	10.10	6.48	30	1.6	12.5	1.81	-	0.40	1.20
1038	1.70	6.44	23	1.6	2	1.1	-	0.40	2.40
1041	10.76	6.44	15	1.61	0	1.72	-	0.40	3.60
1044	10.99	6.43	8	1.61	0	1.19	-	0.40	4.80
1047	10.99	6.43	4	1.61	0	1.14	-	0.40	6.00
1050	11.02	6.43	2	1.61	0	1.71	-	0.40	7.20
1053	11.43	6.43	0	1.60	0	1.58	-	0.40	8.40
1056	11.52	6.43	0	1.6	0	1.31	-	0.40	9.60
1059	11.49	6.43	-3	1.6	0	1.60	-	0.40	10.80
1102	11.57	6.43	-4	1.60	0	1.07	-	0.4	12.00
1105	11.62	6.44	-5	1.59	0	1.2	-	0.4	13.20
1108	11.59	6.43	-5	1.6	0	1.09	-	0.4	14.40
1111	11.57	6.44	-6	1.6	0	0.6	-	0.4	15.60
1114	11.55	6.44	-6	1.6	0	0.65	-	0.4	16.80
1117	11.67	6.44	-7	1.6	0	0.5	-	0.4	18.00
1120	12.06	6.44	-7	1.58	0	0.52	-	0.4	19.20
1123	12.11	6.44	-8	1.57	0	0.48	-	0.4	20.4

Total Quantity of Water Removed (L): 20.40	Sampling Time: 1123
Samplers: N. Robinson / J. Guy	Split Sample With: DUP-010621
Sampling Date: 1/6/2021	Sample Type: Grab

COMMENTS AND OBSERVATIONS: PID = 95.3 ppm
Well not gauged during purging due to collection of PFAS samples; DTW after purging = 7.29 ft;



EA Engineering, P.C.
EA Science and Technology



Department of
Environmental
Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-19	EA Personnel: N. Robinson / J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good	Weather: 34 F / Overcast
Sounding Method: WLM	Gauge Date: 5-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1220	Well Diameter (in): 2

Purge Date: 5-Jan-21	Purge Time: 1112
Purge Method: Peristaltic Pump	Field Technician: N. Robinson / J. Guy

Well Volume

A. Well Depth (ft): 23.82	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 7.3	E. Well Volume (gal) C*D): 2.69	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 16.52	F. Three Well Volumes (gal) (E3): 8.08	Pump Intake Depth: -

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
113	9.21	6.64	168.00	0.692	188.00	1.94	-	0.25	-
116	10.32	6.84	97	0.655	121	0.95	-	0.25	0.75
119	10.89	6.89	35	0.661	75.7	0.64	-	0.25	1.50
1122	11.14	6.9	5	0.679	54.3	0.54	-	0.25	2.70
1125	11.25	6.92	-16	0.693	40.3	0.46	-	0.25	3.90
1128	11.29	6.93	-29	0.694	38.8	0.42	-	0.25	5.10
1131	11.34	6.95	-36	0.677	30.3	0.39	-	0.25	6.30
1134	11.33	6.97	-40	0.682	28	0.37	-	0.25	7.50
1137	11.34	6.98	-44	0.677	27	0.37	-	0.25	8.70
1140	11.36	6.99	-46	0.687	23	0.37	-	0.25	9.90
1143	11.39	6.99	-48	0.668	24.5	0.52	-	0.25	11.10
1146	11.41	7.03	-48	0.654	19.2	0.38	-	0.25	12.30
1149	11.46	7.03	-51	0.680	19.5	0.37	-	0.25	13.50
1151	11.43	7.05	-54	0.671	20.5	0.36	-	0.25	14.70
1154	11.43	7.07	-55	0.675	18.8	0.36	-	0.25	15.90

Total Quantity of Water Removed (L): 15.90	Sampling Time: 1154
Samplers: N. Robinson / J. Guy	Split Sample With: -
Sampling Date: 1/5/2021	Sample Type: Grab

COMMENTS AND OBSERVATIONS: PID = 16.3 ppm
Well not gauged during purging due to collection of PFAS samples; DTW after purging = 7.7 ft;



EA Engineering, P.C.
EA Science and Technology



Department of
Environmental
Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-20	EA Personnel: N. Robinson / J. Guy	Client: NYSDEC
Location: Admiral Cleaners	Well Condition: Good	Weather: 34 F / Overcast
Sounding Method: WLM	Gauge Date: 7-Jan-21	Measurement Ref: TOC
Stick Up/Down (ft): Flush Mount	Gauge Time: 1147	Well Diameter (in): 2

Purge Date: 6-Jan-21	Purge Time: 804
Purge Method: Peristaltic Pump	Field Technician: N. Robinson / J. Guy

Well Volume

A. Well Depth (ft): 24.85	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: Down ~4 in.
B. Depth to Water (ft): 6.87	E. Well Volume (gal) C*D): 2.93	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 17.98	F. Three Well Volumes (gal) (E3): 8.79	Pump Intake Depth: -

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
802	8.81	6.07	278.00	0.919	9.80	1.39	-	0.25	-
810	9.88	6.48	250	0.887	1.4	1.16	-	0.25	0.75
813	10.16	6.59	223	0.886	0	1.16	-	0.25	1.50
816	10.06	6.67	160	0.901	1.9	1.14	-	0.25	2.70
819	10.34	6.7	78	0.916	0.2	1.03	-	0.25	3.90
822	10.33	6.7	40	0.948	2	0.93	-	0.25	5.10
825	11.33	6.68	19	0.943	0.5	0.98	-	0.25	6.30
828	11.15	6.65	8	0.997	0	0.85	-	0.25	7.50
831	10.22	6.65	4	1.090	3.1	1.03	-	0.25	8.70
834	10.02	6.58	-3	1.190	2.2	2.66	-	0.25	9.90
837	10.15	6.51	-8	1.320	0	3.53	-	0.25	11.10
840	10.18	6.52	-11	1.410	0.7	2.99	-	0.25	12.30
843	10.33	6.47	-13	1.470	0.5	1.68	-	0.25	13.50
846	10.22	6.47	-14	1.520	0	2.33	-	0.25	14.70
849	10.51	6.46	-17	1.560	0	0.98	-	0.25	15.90
852	10.41	6.46	-17	1.58	0	1.82	-	0.25	17.10
855	10.35	6.43	-18	1.62	0	1.38	-	0.25	18.30
858	10.49	6.45	-20	1.64	0	1.22	-	0.25	19.50
901	10.35	6.45	-20	1.65	0	1	-	0.25	20.70
904	10.27	6.45	-21	1.66	0	0.86	-	0.25	21.90
907	10.34	6.45	-21	1.66	0	0.73	-	0.25	23.10
910	10.14	6.45	-22	1.67	0	0.7	-	0.25	24.30

Total Quantity of Water Removed (L): 24.30	Sampling Time: 910
Samplers: N. Robinson / J. Guy	Split Sample With: MS/MSD
Sampling Date: 1/6/2021	Sample Type: Grab

COMMENTS AND OBSERVATIONS: PID = 1.0 ppm
Well not gauged during purging due to collection of PFAS samples; DTW after purging = 7.29 ft;

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 1/5/21
TIME: 0923
METER ID: 046665

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.58	3.94

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.64	4.48

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	3.3	0.6

COMMENTS

DO: ^{Initial} 17.64 mg/L | ^{Final} 8.24 mg/L

SIGNATURE



FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 1/5/21
TIME: 0915
METER ID: 21385

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	6.61	3.97

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.82	4.46

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

Initial	Final
DO: 12.14 mg/L	7.71 mg/L

SIGNATURE



FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	1/6/21
TIME:	0740
METER ID:	21385

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.61	3.96

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.18	4.45

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	3.2	0.3

COMMENTS

Initial	}	Final
DO = 10.73 mg/L		13.92

SIGNATURE



This page intentionally left blank

2 Admiral Cleaners 1/5/21

Weather: am: 33°F cloudy

pm: 36°F cloudy

Objective: Find wells, determine if tubing/condition is okay, begin sampling wells

0745 - N. Robinson (EA) arrives on site

0800 - E. Cummings (EA) arrives on site

0802 - J. Guy (EA) arrives on site

0810 - EA begin looking for wells to be sampled

0915 - N. Robinson begin calibration of Horiba & PTD

0945 - Set up at MW-07R and begin purge

1011 - Collect 401075-MW-07R

1045 - Finish collection due to low flow

1112 - Begin set up at MW-14 and start purge

1154 - Collect 401075-MW-19

1245 - Set up and start purge at MW-02

1247 - MW-02 went dry

1255 - mobilize to MW-05

1257 - E. Cummings works on MW-06 tubing

1315 - Begin purge at MW-05

1330 - Attempted to purge sediment out of MW-05 but unsuccessful, will combat with new idea to redevelop 1 in well

1335 - N. Robinson & J. Guy move to ~~MW-07~~ MW-09 (NR)

1345 - E. Cummings mobilize to MW-13

1359 - Set up and begin purge at MW-01

1406 - MW-01 Dry

1410 - E. Cummings mobilize to MW-12

Admiral Cleaners

1/5/21

3

1417 - N. Robinson & J. Guy mobilize and

Set up at MW-09

1500 - MW-09 went dry

1510 - N. Robinson & J. Guy mobilize to MW-12

1520 - Set up at MW-12

1530 - Begin purge at MW-12

1534 - MW-12 went dry

1610 - Collect 401075-E3-MW-02

1615 - Collect 401075-E3-MW-02

1620 - Packed codes with samples

1700 - EA off site

Admiral Cleaners
1/5/21

Return to the Rain

4 Abrasive Cleaners

1/6/21

Weather: am 28°F Cloudy

pm 34°F Cloudy

Objective: Purge and sample MW-20 and MW-18
Sample wells that went dry0730 - IV. Robinson and J. Guy ^{EA} arrive on site

0735 - Health and Safety meeting

0740 - Begin Calibrating equipment

0755 - EA set up on MW-20

0804 - EA begin purge MW-20

0910 - Collect 401075 - MW-20 with MS/MSD

1019 - EA mobilize to MW-18

1029 - Begin purge at MW-18

1123 - Collect 401075 - MW-18 with 401075 - DUP-010621

1208 - EA cleanup MW-18

1225 - Collect 401075 - EB-0106211230 - Collect 401075 - EB-010621

1235 - EA offsite for lunch

1300 - EA back onsite and set up at MW-02

1325 - Collect 401075 - MW-02

1350 - EA mobilize to MW-01

1400 - EA gauge MW-01 and calculate volume, determine
not enough volume to fill samples, will return later1450 - Collect 401075 - MW-01 with imms
due to low volume in MW-01

1500 - EA mobilize to MW-12

1520 - Collect 401075 - MW-12 all but Alkalinity &

Anions

Abrasive Cleaners

1/6/21

5

1525 - EA mobilize to MW-01 to attempt a 2nd

Sample for VCs

1535 - MW-01 dry with only 1 3/4 v. of fill

1540 - EA attempt bail at MW-02

1550 - EA unsuccessful to get water with bailer

1555 - EA QC samples and pack boxes

1700 - EA offsite

[Signature]
1/6/21

Rite in the Rain

6 Admiral Cleaners

1/7/21

Weather: am: 27°F Partly cloudy
pm 35°F Sunny

Objective: Finish Sampling MW-01 and MW-12

Look for MW-3 and MW-4 and put up signs

0730 - EA arrives on site

0735 - Brief Health and Safety meeting

0740 - EA goes to look for wells to see how many wells

0800 - EA continues to look for wells MW-03 & MW-04

while waiting for wells to recharge

0900 - EA pack cools with PFAS and 1/4-Distance Sampler

1055 - Collect Volatiles - MW-12 for Aroclor & PCBs

1100 - EA attempts to sample MW-01 but unsuccessful

1135 - Collect Volatiles - PB-010721 for 1/4-Distance

1140 - Collect Volatiles - PB-010721 for VOCs

1347 - EA begins sampling MW-15

	Well ID	DTW	DTB	
1147	MW-20	6.87	24.85	
1150	MW-12	5.15	6.05	
1151	MW-18	6.70	23.65	
1154	MW-7R	7.13	10.83	
1158	MW-14	7.30	23.82	
1200	MW-02	5.20	9.34	
1202	MW-10			Completely Picked up by EA
1203	MW-05	6.35	9.72	
1207	MW-06	6.60	9.94	
1207	MW-12	6.03	6.05	
1212	MW-13	4.35	4.35	dry

Admiral Cleaners

1/7/21

	Well ID	DTW	DTB	
1215	MW-14	3.60	5.73	
1218	MW-15	5.26	9.54	
1221	MW-09	5.59	9.30	
1223	MW-01	7.50	7.56	
1225	MW-08	Unable to locate		
1227	MW-17	5.92	7.70	
1228	MW-18	3.15	4.68	
1235	EA off site			

Admiral Cleaners
1/7/21

Rite in the Rain

This page intentionally left blank

Attachment B

Laboratory Reports

This page left intentionally blank

ANALYTICAL REPORT

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

Laboratory Job ID: 480-180000-1

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:

1/19/2021 12:08:34 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

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

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
1/19/2021 12:08:34 PM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	7
Client Sample Results	9
Isotope Dilution Summary	18
QC Sample Results	20
QC Association Summary	26
Lab Chronicle	28
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Field Data Sheets	35
Receipt Checklists	36



Definitions/Glossary

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

Job ID: 480-180000-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

LCMS

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
I	Value is EMPC (estimated maximum possible concentration).
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.
α	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

Case Narrative

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

Job ID: 480-180000-1

Job ID: 480-180000-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-180000-1

Comments

No additional comments.

Receipt

The samples were received on 1/8/2021 10:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.5° C and 2.7° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incorrect as received. The client requested that we correct the date portion of the sample IDs for the following samples.

GC/MS Semi VOA

Method 8270D SIM ID: The 1,4-Dioxane result reported for samples 401075-MW-18-01062021 (480-180000-5) and 401075-DUP-01062021 (480-180000-6) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method 8270D SIM ID: The 1,4-Dioxane result reported for samples 401075-MW-20-01062021 (480-180000-4[MS]) and 407075-MW-20-01062021 (480-180000-4[MSD]) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte.

401075-MW-20-01062021 (480-180000-4) and 401075-MW-18-01062021 (480-180000-5)

Method 537 (modified): The matrix spike (MS) recoveries for Perfluorobutanoic acid (PFBA) of preparation batch 320-449970 and analytical batch 320-450081 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): The matrix spike duplicate (MSD) recovery for Perfluorobutanoic acid (PFBA) of preparation batch 320-449970 and analytical batch 320-450081 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

Method 3535: The following samples contained floating particulates in the sample bottle prior to extraction: 401075-MW-18-01062021 (480-180000-5).

Method 3535: The following sample contained a thin layer of sediment at the bottom of the bottle prior to extraction: 401075-MW-19-01052021 (480-180000-1).

Method 3535: The following samples were yellow prior to extraction: 401075-MW-20-01062021 (480-180000-4), 401075-MW-20-01062021 (480-180000-4[MS]), 407075-MW-20-01062021 (480-180000-4[MSD]), 401075-MW-18-01062021 (480-180000-5) and 401075-DUP-01062021 (480-180000-6).

Case Narrative

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

Job ID: 480-180000-1

Job ID: 480-180000-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Detection Summary

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

Job ID: 480-180000-1

Client Sample ID: 401075-MW-19-01052021

Lab Sample ID: 480-180000-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.20		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	12		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	24		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	25		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.3		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	25		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.98	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.8		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.1		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.53	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	22		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 401075-EB-01052021

Lab Sample ID: 480-180000-2

No Detections.

Client Sample ID: 401075-FB-01052021

Lab Sample ID: 480-180000-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.9	0.50	ng/L	1		537 (modified)	Total/NA
6:2 FTS	2.4	J	4.7	2.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 401075-MW-20-01062021

Lab Sample ID: 480-180000-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	30	F1	4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.0		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.0		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.9		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	17		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.4	I	1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 401075-MW-18-01062021

Lab Sample ID: 480-180000-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.4	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	60		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.9		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.0		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.7		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	22		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.76	J I	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.51	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	1.3	J	4.7	1.2	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-180000-1

Client Sample ID: 401075-DUP-01062021

Lab Sample ID: 480-180000-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.3	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	55		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.7		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.7		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.4		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	23		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.82	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.8	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.33	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.51	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	1.3	J	4.8	1.2	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 401075-FB-01062021

Lab Sample ID: 480-180000-7

No Detections.

Client Sample ID: 401075-EB-01062021

Lab Sample ID: 480-180000-8

No Detections.

Client Sample ID: 401075-FB-01072021

Lab Sample ID: 480-180000-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-MW-19-01052021

Lab Sample ID: 480-180000-1

Date Collected: 01/05/21 11:54

Matrix: Water

Date Received: 01/08/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20		0.20	0.10	ug/L		01/08/21 14:45	01/12/21 13:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				01/08/21 14:45	01/12/21 13:38	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		4.7	2.2	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluoropentanoic acid (PFPeA)	24		1.9	0.46	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorohexanoic acid (PFHxA)	25		1.9	0.54	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluoroheptanoic acid (PFHpA)	9.3		1.9	0.23	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorooctanoic acid (PFOA)	25		1.9	0.79	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorononanoic acid (PFNA)	0.98 J		1.9	0.25	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.51	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.68	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorobutanesulfonic acid (PFBS)	7.8		1.9	0.19	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorohexanesulfonic acid (PFHxS)	5.1		1.9	0.53	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.53 J		1.9	0.18	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorooctanesulfonic acid (PFOS)	22		1.9	0.50	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		01/09/21 04:47	01/09/21 22:19	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.91	ng/L		01/09/21 04:47	01/09/21 22:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	1.1	ng/L		01/09/21 04:47	01/09/21 22:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	1.2	ng/L		01/09/21 04:47	01/09/21 22:19	1
6:2 FTS	ND		4.7	2.3	ng/L		01/09/21 04:47	01/09/21 22:19	1
8:2 FTS	ND		1.9	0.43	ng/L		01/09/21 04:47	01/09/21 22:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	69		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C5 PFPeA	78		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C2 PFHxA	94		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C4 PFHpA	95		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C4 PFOA	98		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C5 PFNA	93		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C2 PFDA	91		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C2 PFUnA	96		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C2 PFDoA	88		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C2 PFTeDA	104		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C3 PFBS	85		25 - 150				01/09/21 04:47	01/09/21 22:19	1
18O2 PFHxS	88		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C4 PFOS	92		25 - 150				01/09/21 04:47	01/09/21 22:19	1
13C8 FOSA	84		25 - 150				01/09/21 04:47	01/09/21 22:19	1
d3-NMeFOSAA	79		25 - 150				01/09/21 04:47	01/09/21 22:19	1
d5-NEtFOSAA	83		25 - 150				01/09/21 04:47	01/09/21 22:19	1
M2-6:2 FTS	79		25 - 150				01/09/21 04:47	01/09/21 22:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-MW-19-01052021

Lab Sample ID: 480-180000-1

Date Collected: 01/05/21 11:54

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	71		25 - 150	01/09/21 04:47	01/09/21 22:19	1

Client Sample ID: 401075-EB-01052021

Lab Sample ID: 480-180000-2

Date Collected: 01/05/21 16:10

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6	2.2	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.45	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.53	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.23	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.78	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.28	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.51	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.67	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.52	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.50	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		01/09/21 04:47	01/09/21 22:29	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.90	ng/L		01/09/21 04:47	01/09/21 22:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	1.1	ng/L		01/09/21 04:47	01/09/21 22:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	1.2	ng/L		01/09/21 04:47	01/09/21 22:29	1
6:2 FTS	ND		4.6	2.3	ng/L		01/09/21 04:47	01/09/21 22:29	1
8:2 FTS	ND		1.8	0.42	ng/L		01/09/21 04:47	01/09/21 22:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	83		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C5 PFPeA	97		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C2 PFHxA	100		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C4 PFHpA	103		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C4 PFOA	109		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C5 PFNA	100		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C2 PFDA	96		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C2 PFUnA	99		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C2 PFDoA	95		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C2 PFTeDA	112		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C3 PFBS	94		25 - 150	01/09/21 04:47	01/09/21 22:29	1
18O2 PFHxS	96		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C4 PFOS	90		25 - 150	01/09/21 04:47	01/09/21 22:29	1
13C8 FOSA	83		25 - 150	01/09/21 04:47	01/09/21 22:29	1
d3-NMeFOSAA	80		25 - 150	01/09/21 04:47	01/09/21 22:29	1
d5-NEtFOSAA	86		25 - 150	01/09/21 04:47	01/09/21 22:29	1
M2-6:2 FTS	80		25 - 150	01/09/21 04:47	01/09/21 22:29	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-EB-01052021

Lab Sample ID: 480-180000-2

Date Collected: 01/05/21 16:10

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	73		25 - 150	01/09/21 04:47	01/09/21 22:29	1

Client Sample ID: 401075-FB-01052021

Lab Sample ID: 480-180000-3

Date Collected: 01/05/21 16:15

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.7	2.2	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.46	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.54	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.23	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.79	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.25	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.51	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.68	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.19	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.53	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorooctanesulfonic acid (PFOS)	1.7 J		1.9	0.50	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		01/09/21 04:47	01/09/21 22:38	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.91	ng/L		01/09/21 04:47	01/09/21 22:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	1.1	ng/L		01/09/21 04:47	01/09/21 22:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	1.2	ng/L		01/09/21 04:47	01/09/21 22:38	1
6:2 FTS	2.4 J		4.7	2.3	ng/L		01/09/21 04:47	01/09/21 22:38	1
8:2 FTS	ND		1.9	0.43	ng/L		01/09/21 04:47	01/09/21 22:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	89		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C5 PFPeA	94		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C2 PFHxA	100		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C4 PFHpA	97		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C4 PFOA	105		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C5 PFNA	97		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C2 PFDA	101		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C2 PFUnA	99		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C2 PFDoA	89		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C2 PFTeA	111		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C3 PFBS	90		25 - 150	01/09/21 04:47	01/09/21 22:38	1
18O2 PFHxS	94		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C4 PFOS	92		25 - 150	01/09/21 04:47	01/09/21 22:38	1
13C8 FOSA	85		25 - 150	01/09/21 04:47	01/09/21 22:38	1
d3-NMeFOSAA	79		25 - 150	01/09/21 04:47	01/09/21 22:38	1
d5-NEtFOSAA	83		25 - 150	01/09/21 04:47	01/09/21 22:38	1
M2-6:2 FTS	74		25 - 150	01/09/21 04:47	01/09/21 22:38	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-FB-01052021

Lab Sample ID: 480-180000-3

Date Collected: 01/05/21 16:15

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	69		25 - 150	01/09/21 04:47	01/09/21 22:38	1

Client Sample ID: 401075-MW-20-01062021

Lab Sample ID: 480-180000-4

Date Collected: 01/06/21 09:10

Matrix: Water

Date Received: 01/08/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1		0.20	0.10	ug/L		01/13/21 15:29	01/18/21 12:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110				01/13/21 15:29	01/18/21 12:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	30	F1	4.7	2.2	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluoropentanoic acid (PFPeA)	6.0		1.9	0.46	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorohexanoic acid (PFHxA)	6.0		1.9	0.54	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluoroheptanoic acid (PFHpA)	4.9		1.9	0.23	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorooctanoic acid (PFOA)	17		1.9	0.80	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.25	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.51	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.68	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	0.19	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.9	0.53	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorooctanesulfonic acid (PFOS)	6.4	I	1.9	0.51	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		01/09/21 04:47	01/09/21 23:06	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.92	ng/L		01/09/21 04:47	01/09/21 23:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	1.1	ng/L		01/09/21 04:47	01/09/21 23:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	1.2	ng/L		01/09/21 04:47	01/09/21 23:06	1
6:2 FTS	ND	F2 F1	4.7	2.3	ng/L		01/09/21 04:47	01/09/21 23:06	1
8:2 FTS	ND		1.9	0.43	ng/L		01/09/21 04:47	01/09/21 23:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	51		25 - 150				01/09/21 04:47	01/09/21 23:06	1
13C5 PFPeA	60		25 - 150				01/09/21 04:47	01/09/21 23:06	1
13C2 PFHxA	87		25 - 150				01/09/21 04:47	01/09/21 23:06	1
13C4 PFHpA	95		25 - 150				01/09/21 04:47	01/09/21 23:06	1
13C4 PFOA	98		25 - 150				01/09/21 04:47	01/09/21 23:06	1
13C5 PFNA	100		25 - 150				01/09/21 04:47	01/09/21 23:06	1
13C2 PFDA	95		25 - 150				01/09/21 04:47	01/09/21 23:06	1
13C2 PFUnA	97		25 - 150				01/09/21 04:47	01/09/21 23:06	1
13C2 PFDoA	94		25 - 150				01/09/21 04:47	01/09/21 23:06	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-MW-20-01062021

Lab Sample ID: 480-180000-4

Date Collected: 01/06/21 09:10

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	116		25 - 150	01/09/21 04:47	01/09/21 23:06	1
13C3 PFBS	74		25 - 150	01/09/21 04:47	01/09/21 23:06	1
18O2 PFHxS	88		25 - 150	01/09/21 04:47	01/09/21 23:06	1
13C4 PFOS	95		25 - 150	01/09/21 04:47	01/09/21 23:06	1
13C8 FOSA	85		25 - 150	01/09/21 04:47	01/09/21 23:06	1
d3-NMeFOSAA	81		25 - 150	01/09/21 04:47	01/09/21 23:06	1
d5-NEtFOSAA	98		25 - 150	01/09/21 04:47	01/09/21 23:06	1
M2-6:2 FTS	95		25 - 150	01/09/21 04:47	01/09/21 23:06	1
M2-8:2 FTS	72		25 - 150	01/09/21 04:47	01/09/21 23:06	1

Client Sample ID: 401075-MW-18-01062021

Lab Sample ID: 480-180000-5

Date Collected: 01/06/21 11:23

Matrix: Water

Date Received: 01/08/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.4	E	0.20	0.10	ug/L		01/08/21 14:45	01/12/21 14:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110				01/08/21 14:45	01/12/21 14:02	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	60		4.7	2.3	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluoropentanoic acid (PFPeA)	4.9		1.9	0.46	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorohexanoic acid (PFHxA)	6.0		1.9	0.54	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluoroheptanoic acid (PFHpA)	5.7		1.9	0.23	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorooctanoic acid (PFOA)	22		1.9	0.80	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.25	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.52	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.69	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorobutanesulfonic acid (PFBS)	0.76	J I	1.9	0.19	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.9	0.54	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.51	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		01/09/21 04:47	01/09/21 23:34	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.92	ng/L		01/09/21 04:47	01/09/21 23:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	1.1	ng/L		01/09/21 04:47	01/09/21 23:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.3	J	4.7	1.2	ng/L		01/09/21 04:47	01/09/21 23:34	1
6:2 FTS	ND		4.7	2.3	ng/L		01/09/21 04:47	01/09/21 23:34	1
8:2 FTS	ND		1.9	0.43	ng/L		01/09/21 04:47	01/09/21 23:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	50		25 - 150				01/09/21 04:47	01/09/21 23:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-MW-18-01062021

Lab Sample ID: 480-180000-5

Date Collected: 01/06/21 11:23

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	58		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C2 PFHxA	87		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C4 PFHpA	92		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C4 PFOA	100		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C5 PFNA	105		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C2 PFDA	100		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C2 PFUnA	100		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C2 PFDoA	97		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C2 PFTeDA	121		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C3 PFBS	75		25 - 150	01/09/21 04:47	01/09/21 23:34	1
18O2 PFHxS	91		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C4 PFOS	94		25 - 150	01/09/21 04:47	01/09/21 23:34	1
13C8 FOSA	85		25 - 150	01/09/21 04:47	01/09/21 23:34	1
d3-NMeFOSAA	83		25 - 150	01/09/21 04:47	01/09/21 23:34	1
d5-NEtFOSAA	89		25 - 150	01/09/21 04:47	01/09/21 23:34	1
M2-6:2 FTS	107		25 - 150	01/09/21 04:47	01/09/21 23:34	1
M2-8:2 FTS	94		25 - 150	01/09/21 04:47	01/09/21 23:34	1

Client Sample ID: 401075-DUP-01062021

Lab Sample ID: 480-180000-6

Date Collected: 01/06/21 00:00

Matrix: Water

Date Received: 01/08/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.3	E	0.20	0.10	ug/L		01/08/21 14:45	01/12/21 14:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110				01/08/21 14:45	01/12/21 14:25	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	55		4.8	2.3	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluoropentanoic acid (PFPeA)	4.7		1.9	0.47	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorohexanoic acid (PFHxA)	5.7		1.9	0.55	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluoroheptanoic acid (PFHpA)	5.4		1.9	0.24	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorooctanoic acid (PFOA)	23		1.9	0.81	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.26	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.52	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.69	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorobutanesulfonic acid (PFBS)	0.82	J	1.9	0.19	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorohexanesulfonic acid (PFHxS)	1.8	J	1.9	0.54	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.33	J	1.9	0.18	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.51	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		01/09/21 04:47	01/09/21 23:43	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.93	ng/L		01/09/21 04:47	01/09/21 23:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-DUP-01062021

Lab Sample ID: 480-180000-6

Date Collected: 01/06/21 00:00

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	1.1	ng/L		01/09/21 04:47	01/09/21 23:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.3	J	4.8	1.2	ng/L		01/09/21 04:47	01/09/21 23:43	1
6:2 FTS	ND		4.8	2.4	ng/L		01/09/21 04:47	01/09/21 23:43	1
8:2 FTS	ND		1.9	0.44	ng/L		01/09/21 04:47	01/09/21 23:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	55		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C5 PFPeA	65		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C2 PFHxA	94		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C4 PFHpA	96		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C4 PFOA	106		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C5 PFNA	113		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C2 PFDA	105		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C2 PFUnA	101		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C2 PFDoA	94		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C2 PFTeDA	108		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C3 PFBS	82		25 - 150				01/09/21 04:47	01/09/21 23:43	1
18O2 PFHxS	96		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C4 PFOS	99		25 - 150				01/09/21 04:47	01/09/21 23:43	1
13C8 FOSA	91		25 - 150				01/09/21 04:47	01/09/21 23:43	1
d3-NMeFOSAA	85		25 - 150				01/09/21 04:47	01/09/21 23:43	1
d5-NEtFOSAA	88		25 - 150				01/09/21 04:47	01/09/21 23:43	1
M2-6:2 FTS	115		25 - 150				01/09/21 04:47	01/09/21 23:43	1
M2-8:2 FTS	97		25 - 150				01/09/21 04:47	01/09/21 23:43	1

Client Sample ID: 401075-FB-01062021

Lab Sample ID: 480-180000-7

Date Collected: 01/06/21 12:25

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.8	2.3	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.47	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.55	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.24	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.81	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.26	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.30	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.52	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.70	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.19	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.54	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.51	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		01/09/21 04:47	01/09/21 23:53	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.93	ng/L		01/09/21 04:47	01/09/21 23:53	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-FB-01062021

Lab Sample ID: 480-180000-7

Date Collected: 01/06/21 12:25

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	1.1	ng/L		01/09/21 04:47	01/09/21 23:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	1.2	ng/L		01/09/21 04:47	01/09/21 23:53	1
6:2 FTS	ND		4.8	2.4	ng/L		01/09/21 04:47	01/09/21 23:53	1
8:2 FTS	ND		1.9	0.44	ng/L		01/09/21 04:47	01/09/21 23:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C5 PFPeA	94		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C2 PFHxA	99		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C4 PFHpA	101		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C4 PFOA	106		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C5 PFNA	101		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C2 PFDA	102		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C2 PFUnA	99		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C2 PFDoA	96		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C2 PFTeDA	124		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C3 PFBS	93		25 - 150				01/09/21 04:47	01/09/21 23:53	1
18O2 PFHxS	99		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C4 PFOS	96		25 - 150				01/09/21 04:47	01/09/21 23:53	1
13C8 FOSA	88		25 - 150				01/09/21 04:47	01/09/21 23:53	1
d3-NMeFOSAA	81		25 - 150				01/09/21 04:47	01/09/21 23:53	1
d5-NEtFOSAA	90		25 - 150				01/09/21 04:47	01/09/21 23:53	1
M2-6:2 FTS	80		25 - 150				01/09/21 04:47	01/09/21 23:53	1
M2-8:2 FTS	71		25 - 150				01/09/21 04:47	01/09/21 23:53	1

Client Sample ID: 401075-EB-01062021

Lab Sample ID: 480-180000-8

Date Collected: 01/06/21 12:30

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6	2.2	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.45	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.54	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.23	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.78	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.29	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.51	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.67	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.53	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.18	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.50	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.30	ng/L		01/09/21 04:47	01/10/21 00:02	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.90	ng/L		01/09/21 04:47	01/10/21 00:02	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-180000-1

Client Sample ID: 401075-EB-01062021

Lab Sample ID: 480-180000-8

Date Collected: 01/06/21 12:30

Matrix: Water

Date Received: 01/08/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	1.1	ng/L		01/09/21 04:47	01/10/21 00:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	1.2	ng/L		01/09/21 04:47	01/10/21 00:02	1
6:2 FTS	ND		4.6	2.3	ng/L		01/09/21 04:47	01/10/21 00:02	1
8:2 FTS	ND		1.8	0.42	ng/L		01/09/21 04:47	01/10/21 00:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	86		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C5 PFPeA	86		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C2 PFHxA	88		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C4 PFHpA	93		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C4 PFOA	98		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C5 PFNA	96		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C2 PFDA	90		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C2 PFUnA	90		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C2 PFDoA	85		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C2 PFTeDA	105		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C3 PFBS	87		25 - 150				01/09/21 04:47	01/10/21 00:02	1
18O2 PFHxS	89		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C4 PFOS	90		25 - 150				01/09/21 04:47	01/10/21 00:02	1
13C8 FOSA	77		25 - 150				01/09/21 04:47	01/10/21 00:02	1
d3-NMeFOSAA	70		25 - 150				01/09/21 04:47	01/10/21 00:02	1
d5-NEtFOSAA	78		25 - 150				01/09/21 04:47	01/10/21 00:02	1
M2-6:2 FTS	68		25 - 150				01/09/21 04:47	01/10/21 00:02	1
M2-8:2 FTS	65		25 - 150				01/09/21 04:47	01/10/21 00:02	1

Client Sample ID: 401075-FB-01072021

Lab Sample ID: 480-180000-9

Date Collected: 01/07/21 11:35

Matrix: Water

Date Received: 01/08/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		01/08/21 14:45	01/12/21 14:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				01/08/21 14:45	01/12/21 14:48	1

Isotope Dilution Summary

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

Job ID: 480-180000-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-180000-1	401075-MW-19-01052021	27
480-180000-4	401075-MW-20-01062021	29
480-180000-4 MS	401075-MW-20-01062021	32
480-180000-4 MSD	407075-MW-20-01062021	32
480-180000-5	401075-MW-18-01062021	26
480-180000-6	401075-DUP-01062021	26
480-180000-9	401075-FB-01072021	30
LCS 480-565572/2-A	Lab Control Sample	30
LCS 480-566015/2-A	Lab Control Sample	32
MB 480-565572/1-A	Method Blank	29
MB 480-566015/1-A	Method Blank	33

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
480-180000-1	401075-MW-19-01052021	69	78	94	95	98	93	91	96
480-180000-2	401075-EB-01052021	83	97	100	103	109	100	96	99
480-180000-3	401075-FB-01052021	89	94	100	97	105	97	101	99
480-180000-4	401075-MW-20-01062021	51	60	87	95	98	100	95	97
480-180000-4 MS	401075-MW-20-01062021	50	58	83	90	95	101	85	91
480-180000-4 MSD	407075-MW-20-01062021	48	60	84	91	96	100	95	89
480-180000-5	401075-MW-18-01062021	50	58	87	92	100	105	100	100
480-180000-6	401075-DUP-01062021	55	65	94	96	106	113	105	101
480-180000-7	401075-FB-01062021	93	94	99	101	106	101	102	99
480-180000-8	401075-EB-01062021	86	86	88	93	98	96	90	90
LCS 320-449970/2-A	Lab Control Sample	90	96	102	104	100	99	99	98
MB 320-449970/1-A	Method Blank	82	86	90	92	94	88	92	91

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
480-180000-1	401075-MW-19-01052021	88	104	85	88	92	84	79	83
480-180000-2	401075-EB-01052021	95	112	94	96	90	83	80	86
480-180000-3	401075-FB-01052021	89	111	90	94	92	85	79	83
480-180000-4	401075-MW-20-01062021	94	116	74	88	95	85	81	98
480-180000-4 MS	401075-MW-20-01062021	84	102	74	86	94	81	72	80
480-180000-4 MSD	407075-MW-20-01062021	85	104	74	87	88	84	74	80
480-180000-5	401075-MW-18-01062021	97	121	75	91	94	85	83	89
480-180000-6	401075-DUP-01062021	94	108	82	96	99	91	85	88
480-180000-7	401075-FB-01062021	96	124	93	99	96	88	81	90
480-180000-8	401075-EB-01062021	85	105	87	89	90	77	70	78
LCS 320-449970/2-A	Lab Control Sample	92	116	93	94	94	83	83	86
MB 320-449970/1-A	Method Blank	88	98	84	85	83	72	75	78

Eurofins TestAmerica, Buffalo

Isotope Dilution Summary

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

Job ID: 480-180000-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M262FTS (25-150)	M282FTS (25-150)
480-180000-1	401075-MW-19-01052021	79	71
480-180000-2	401075-EB-01052021	80	73
480-180000-3	401075-FB-01052021	74	69
480-180000-4	401075-MW-20-01062021	95	72
480-180000-4 MS	401075-MW-20-01062021	89	74
480-180000-4 MSD	407075-MW-20-01062021	92	73
480-180000-5	401075-MW-18-01062021	107	94
480-180000-6	401075-DUP-01062021	115	97
480-180000-7	401075-FB-01062021	80	71
480-180000-8	401075-EB-01062021	68	65
LCS 320-449970/2-A	Lab Control Sample	72	72
MB 320-449970/1-A	Method Blank	70	64

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

QC Sample Results

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

Job ID: 480-180000-1

Method: 8270D SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-565572/1-A

Matrix: Water

Analysis Batch: 565720

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 565572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		01/08/21 14:45	01/11/21 19:11	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110				01/08/21 14:45	01/11/21 19:11	1

Lab Sample ID: LCS 480-565572/2-A

Matrix: Water

Analysis Batch: 565720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 565572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.05		ug/L		105	40 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	30		15 - 110				

Lab Sample ID: MB 480-566015/1-A

Matrix: Water

Analysis Batch: 566368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 566015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		01/13/21 15:29	01/18/21 02:33	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110				01/13/21 15:29	01/18/21 02:33	1

Lab Sample ID: LCS 480-566015/2-A

Matrix: Water

Analysis Batch: 566368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 566015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	0.986		ug/L		99	40 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	32		15 - 110				

Lab Sample ID: 480-180000-4 MS

Matrix: Water

Analysis Batch: 566368

Client Sample ID: 401075-MW-20-01062021

Prep Type: Total/NA

Prep Batch: 566015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.1		1.00	2.02	E	ug/L		95	40 - 140
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8	32		15 - 110						

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-180000-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 480-180000-4 MSD

Matrix: Water

Analysis Batch: 566368

Client Sample ID: 407075-MW-20-01062021

Prep Type: Total/NA

Prep Batch: 566015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	1.1		1.00	1.95	E	ug/L		88	40 - 140	4	20
MSD MSD											
Isotope Dilution	%Recovery	Qualifier	Limits								
1,4-Dioxane-d8	32		15 - 110								

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-449970/1-A

Matrix: Water

Analysis Batch: 450081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 449970

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		5.0	2.4	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	1.3	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.73	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		01/09/21 04:47	01/09/21 21:23	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.98	ng/L		01/09/21 04:47	01/09/21 21:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	1.2	ng/L		01/09/21 04:47	01/09/21 21:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	1.3	ng/L		01/09/21 04:47	01/09/21 21:23	1
6:2 FTS	ND		5.0	2.5	ng/L		01/09/21 04:47	01/09/21 21:23	1
8:2 FTS	ND		2.0	0.46	ng/L		01/09/21 04:47	01/09/21 21:23	1
	MB	MB							
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	82		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C5 PFPeA	86		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C2 PFHxA	90		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C4 PFHpA	92		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C4 PFOA	94		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C5 PFNA	88		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C2 PFDA	92		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C2 PFUnA	91		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C2 PFDoA	88		25 - 150				01/09/21 04:47	01/09/21 21:23	1
13C2 PFTeDA	98		25 - 150				01/09/21 04:47	01/09/21 21:23	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-180000-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-449970/1-A
Matrix: Water
Analysis Batch: 450081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449970

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	84		25 - 150	01/09/21 04:47	01/09/21 21:23	1
18O2 PFHxS	85		25 - 150	01/09/21 04:47	01/09/21 21:23	1
13C4 PFOS	83		25 - 150	01/09/21 04:47	01/09/21 21:23	1
13C8 FOSA	72		25 - 150	01/09/21 04:47	01/09/21 21:23	1
d3-NMeFOSAA	75		25 - 150	01/09/21 04:47	01/09/21 21:23	1
d5-NEtFOSAA	78		25 - 150	01/09/21 04:47	01/09/21 21:23	1
M2-6:2 FTS	70		25 - 150	01/09/21 04:47	01/09/21 21:23	1
M2-8:2 FTS	64		25 - 150	01/09/21 04:47	01/09/21 21:23	1

Lab Sample ID: LCS 320-449970/2-A
Matrix: Water
Analysis Batch: 450081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	43.3		ng/L		108	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	37.6		ng/L		94	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	40.3		ng/L		101	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	41.8		ng/L		104	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	43.0		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	40.0	41.3		ng/L		103	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.2		ng/L		108	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	41.5		ng/L		104	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	46.0		ng/L		115	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	48.2		ng/L		121	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	44.3		ng/L		111	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	39.1		ng/L		111	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.7		ng/L		98	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.3		ng/L		108	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	38.7		ng/L		104	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	42.2		ng/L		109	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	49.6		ng/L		124	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.3		ng/L		101	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.1		ng/L		105	76 - 136
6:2 FTS	37.9	40.0		ng/L		105	59 - 175
8:2 FTS	38.3	43.2		ng/L		113	75 - 135
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C4 PFBA	90		25 - 150				
13C5 PFPeA	96		25 - 150				
13C2 PFHxA	102		25 - 150				

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-180000-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-449970/2-A

Matrix: Water

Analysis Batch: 450081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 449970

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFHpA	104		25 - 150
13C4 PFOA	100		25 - 150
13C5 PFNA	99		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	98		25 - 150
13C2 PFDoA	92		25 - 150
13C2 PFTeDA	116		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	94		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	83		25 - 150
d3-NMeFOSAA	83		25 - 150
d5-NEtFOSAA	86		25 - 150
M2-6:2 FTS	72		25 - 150
M2-8:2 FTS	72		25 - 150

Lab Sample ID: 480-180000-4 MS

Matrix: Water

Analysis Batch: 450081

Client Sample ID: 401075-MW-20-01062021

Prep Type: Total/NA

Prep Batch: 449970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	30	F1	37.2	48.8	F1	ng/L		50	76 - 136
Perfluoropentanoic acid (PFPeA)	6.0		37.2	41.0		ng/L		94	71 - 131
Perfluorohexanoic acid (PFHxA)	6.0		37.2	43.2		ng/L		100	73 - 133
Perfluoroheptanoic acid (PFHpA)	4.9		37.2	44.5		ng/L		106	72 - 132
Perfluorooctanoic acid (PFOA)	17		37.2	55.1		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	ND		37.2	37.5		ng/L		101	75 - 135
Perfluorodecanoic acid (PFDA)	ND		37.2	43.1		ng/L		116	76 - 136
Perfluoroundecanoic acid (PFUnA)	ND		37.2	39.7		ng/L		107	68 - 128
Perfluorododecanoic acid (PFDoA)	ND		37.2	41.7		ng/L		112	71 - 131
Perfluorotridecanoic acid (PFTriA)	ND		37.2	47.1		ng/L		127	71 - 131
Perfluorotetradecanoic acid (PFTeA)	ND		37.2	46.1		ng/L		124	70 - 130
Perfluorobutanesulfonic acid (PFBS)	1.1	J	32.9	35.6		ng/L		105	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	33.9	32.7		ng/L		92	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	ND		35.4	40.3		ng/L		114	76 - 136
Perfluorooctanesulfonic acid (PFOS)	6.4	I	34.5	41.9		ng/L		103	70 - 130
Perfluorodecanesulfonic acid (PFDS)	ND		35.9	36.1		ng/L		101	71 - 131
Perfluorooctanesulfonamide (FOSA)	ND		37.2	45.9		ng/L		123	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		37.2	42.1		ng/L		113	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		37.2	38.7		ng/L		104	76 - 136

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-180000-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-180000-4 MS

Matrix: Water

Analysis Batch: 450081

Client Sample ID: 401075-MW-20-01062021

Prep Type: Total/NA

Prep Batch: 449970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
6:2 FTS	ND	F2 F1	35.3	34.4		ng/L		98	59 - 175
8:2 FTS	ND		35.6	38.9		ng/L		109	75 - 135
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
13C4 PFBA	50		25 - 150						
13C5 PFPeA	58		25 - 150						
13C2 PFHxA	83		25 - 150						
13C4 PFHpA	90		25 - 150						
13C4 PFOA	95		25 - 150						
13C5 PFNA	101		25 - 150						
13C2 PFDA	85		25 - 150						
13C2 PFUnA	91		25 - 150						
13C2 PFDoA	84		25 - 150						
13C2 PFTeDA	102		25 - 150						
13C3 PFBS	74		25 - 150						
18O2 PFHxS	86		25 - 150						
13C4 PFOS	94		25 - 150						
13C8 FOSA	81		25 - 150						
d3-NMeFOSAA	72		25 - 150						
d5-NEtFOSAA	80		25 - 150						
M2-6:2 FTS	89		25 - 150						
M2-8:2 FTS	74		25 - 150						

Lab Sample ID: 480-180000-4 MSD

Matrix: Water

Analysis Batch: 450081

Client Sample ID: 407075-MW-20-01062021

Prep Type: Total/NA

Prep Batch: 449970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Perfluorobutanoic acid (PFBA)	30	F1	36.7	50.6	F1	ng/L		56	76 - 136	4	30
Perfluoropentanoic acid (PFPeA)	6.0		36.7	40.7		ng/L		94	71 - 131	1	30
Perfluorohexanoic acid (PFHxA)	6.0		36.7	45.8		ng/L		108	73 - 133	6	30
Perfluoroheptanoic acid (PFHpA)	4.9		36.7	45.5		ng/L		111	72 - 132	2	30
Perfluorooctanoic acid (PFOA)	17		36.7	55.8		ng/L		106	70 - 130	1	30
Perfluorononanoic acid (PFNA)	ND		36.7	40.2		ng/L		109	75 - 135	7	30
Perfluorodecanoic acid (PFDA)	ND		36.7	39.5		ng/L		108	76 - 136	9	30
Perfluoroundecanoic acid (PFUnA)	ND		36.7	40.1		ng/L		109	68 - 128	1	30
Perfluorododecanoic acid (PFDoA)	ND		36.7	43.3		ng/L		118	71 - 131	4	30
Perfluorotridecanoic acid (PFTriA)	ND		36.7	47.6		ng/L		130	71 - 131	1	30
Perfluorotetradecanoic acid (PFTeA)	ND		36.7	39.0		ng/L		106	70 - 130	17	30
Perfluorobutanesulfonic acid (PFBS)	1.1	J	32.5	35.3		ng/L		105	67 - 127	1	30
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	33.4	33.6		ng/L		96	59 - 119	3	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		34.9	41.4		ng/L		119	76 - 136	3	30
Perfluorooctanesulfonic acid (PFOS)	6.4	I	34.1	44.1		ng/L		111	70 - 130	5	30

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-180000-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-180000-4 MSD

Client Sample ID: 407075-MW-20-01062021

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 450081

Prep Batch: 449970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorodecanesulfonic acid (PFDS)	ND		35.4	39.1		ng/L		110	71 - 131	8	30
Perfluorooctanesulfonamide (FOSA)	ND		36.7	44.3		ng/L		121	73 - 133	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		36.7	38.5		ng/L		105	76 - 136	9	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		36.7	38.6		ng/L		105	76 - 136	0	30
6:2 FTS	ND	F2 F1	34.8	35.3		ng/L		101	59 - 175	3	30
8:2 FTS	ND		35.2	41.6		ng/L		118	75 - 135	7	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	48		25 - 150
13C5 PFPeA	60		25 - 150
13C2 PFHxA	84		25 - 150
13C4 PFHpA	91		25 - 150
13C4 PFOA	96		25 - 150
13C5 PFNA	100		25 - 150
13C2 PFDA	95		25 - 150
13C2 PFUnA	89		25 - 150
13C2 PFDoA	85		25 - 150
13C2 PFTeDA	104		25 - 150
13C3 PFBS	74		25 - 150
18O2 PFHxS	87		25 - 150
13C4 PFOS	88		25 - 150
13C8 FOSA	84		25 - 150
d3-NMeFOSAA	74		25 - 150
d5-NEtFOSAA	80		25 - 150
M2-6:2 FTS	92		25 - 150
M2-8:2 FTS	73		25 - 150

QC Association Summary

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

Job ID: 480-180000-1

GC/MS Semi VOA

Prep Batch: 565572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180000-1	401075-MW-19-01052021	Total/NA	Water	3510C	
480-180000-5	401075-MW-18-01062021	Total/NA	Water	3510C	
480-180000-6	401075-DUP-01062021	Total/NA	Water	3510C	
480-180000-9	401075-FB-01072021	Total/NA	Water	3510C	
MB 480-565572/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-565572/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 565720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-565572/1-A	Method Blank	Total/NA	Water	8270D SIM ID	565572
LCS 480-565572/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	565572

Analysis Batch: 565832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180000-1	401075-MW-19-01052021	Total/NA	Water	8270D SIM ID	565572
480-180000-5	401075-MW-18-01062021	Total/NA	Water	8270D SIM ID	565572
480-180000-6	401075-DUP-01062021	Total/NA	Water	8270D SIM ID	565572
480-180000-9	401075-FB-01072021	Total/NA	Water	8270D SIM ID	565572

Prep Batch: 566015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180000-4	401075-MW-20-01062021	Total/NA	Water	3510C	
MB 480-566015/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-566015/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-180000-4 MS	401075-MW-20-01062021	Total/NA	Water	3510C	
480-180000-4 MSD	407075-MW-20-01062021	Total/NA	Water	3510C	

Analysis Batch: 566368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-566015/1-A	Method Blank	Total/NA	Water	8270D SIM ID	566015
LCS 480-566015/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	566015
480-180000-4 MS	401075-MW-20-01062021	Total/NA	Water	8270D SIM ID	566015
480-180000-4 MSD	407075-MW-20-01062021	Total/NA	Water	8270D SIM ID	566015

Analysis Batch: 566369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180000-4	401075-MW-20-01062021	Total/NA	Water	8270D SIM ID	566015

LCMS

Prep Batch: 449970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180000-1	401075-MW-19-01052021	Total/NA	Water	3535	
480-180000-2	401075-EB-01052021	Total/NA	Water	3535	
480-180000-3	401075-FB-01052021	Total/NA	Water	3535	
480-180000-4	401075-MW-20-01062021	Total/NA	Water	3535	
480-180000-5	401075-MW-18-01062021	Total/NA	Water	3535	
480-180000-6	401075-DUP-01062021	Total/NA	Water	3535	
480-180000-7	401075-FB-01062021	Total/NA	Water	3535	
480-180000-8	401075-EB-01062021	Total/NA	Water	3535	
MB 320-449970/1-A	Method Blank	Total/NA	Water	3535	

Eurofins TestAmerica, Buffalo

QC Association Summary

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

Job ID: 480-180000-1

LCMS (Continued)

Prep Batch: 449970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-449970/2-A	Lab Control Sample	Total/NA	Water	3535	
480-180000-4 MS	401075-MW-20-01062021	Total/NA	Water	3535	
480-180000-4 MSD	407075-MW-20-01062021	Total/NA	Water	3535	

Analysis Batch: 450081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180000-1	401075-MW-19-01052021	Total/NA	Water	537 (modified)	449970
480-180000-2	401075-EB-01052021	Total/NA	Water	537 (modified)	449970
480-180000-3	401075-FB-01052021	Total/NA	Water	537 (modified)	449970
480-180000-4	401075-MW-20-01062021	Total/NA	Water	537 (modified)	449970
480-180000-5	401075-MW-18-01062021	Total/NA	Water	537 (modified)	449970
480-180000-6	401075-DUP-01062021	Total/NA	Water	537 (modified)	449970
480-180000-7	401075-FB-01062021	Total/NA	Water	537 (modified)	449970
480-180000-8	401075-EB-01062021	Total/NA	Water	537 (modified)	449970
MB 320-449970/1-A	Method Blank	Total/NA	Water	537 (modified)	449970
LCS 320-449970/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	449970
480-180000-4 MS	401075-MW-20-01062021	Total/NA	Water	537 (modified)	449970
480-180000-4 MSD	407075-MW-20-01062021	Total/NA	Water	537 (modified)	449970

Lab Chronicle

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

Job ID: 480-180000-1

Client Sample ID: 401075-MW-19-01052021

Lab Sample ID: 480-180000-1

Date Collected: 01/05/21 11:54

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			565572	01/08/21 14:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	565832	01/12/21 13:38	RJS	TAL BUF
Total/NA	Prep	3535			449970	01/09/21 04:47	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	450081	01/09/21 22:19	K1S	TAL SAC

Client Sample ID: 401075-EB-01052021

Lab Sample ID: 480-180000-2

Date Collected: 01/05/21 16:10

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			449970	01/09/21 04:47	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	450081	01/09/21 22:29	K1S	TAL SAC

Client Sample ID: 401075-FB-01052021

Lab Sample ID: 480-180000-3

Date Collected: 01/05/21 16:15

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			449970	01/09/21 04:47	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	450081	01/09/21 22:38	K1S	TAL SAC

Client Sample ID: 401075-MW-20-01062021

Lab Sample ID: 480-180000-4

Date Collected: 01/06/21 09:10

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			566015	01/13/21 15:29	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	566369	01/18/21 12:09	RJS	TAL BUF
Total/NA	Prep	3535			449970	01/09/21 04:47	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	450081	01/09/21 23:06	K1S	TAL SAC

Client Sample ID: 401075-MW-18-01062021

Lab Sample ID: 480-180000-5

Date Collected: 01/06/21 11:23

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			565572	01/08/21 14:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	565832	01/12/21 14:02	RJS	TAL BUF
Total/NA	Prep	3535			449970	01/09/21 04:47	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	450081	01/09/21 23:34	K1S	TAL SAC

Lab Chronicle

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

Job ID: 480-180000-1

Client Sample ID: 401075-DUP-01062021

Lab Sample ID: 480-180000-6

Date Collected: 01/06/21 00:00

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			565572	01/08/21 14:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	565832	01/12/21 14:25	RJS	TAL BUF
Total/NA	Prep	3535			449970	01/09/21 04:47	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	450081	01/09/21 23:43	K1S	TAL SAC

Client Sample ID: 401075-FB-01062021

Lab Sample ID: 480-180000-7

Date Collected: 01/06/21 12:25

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			449970	01/09/21 04:47	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	450081	01/09/21 23:53	K1S	TAL SAC

Client Sample ID: 401075-EB-01062021

Lab Sample ID: 480-180000-8

Date Collected: 01/06/21 12:30

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			449970	01/09/21 04:47	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	450081	01/10/21 00:02	K1S	TAL SAC

Client Sample ID: 401075-FB-01072021

Lab Sample ID: 480-180000-9

Date Collected: 01/07/21 11:35

Matrix: Water

Date Received: 01/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			565572	01/08/21 14:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	565832	01/12/21 14:48	RJS	TAL BUF

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

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

Job ID: 480-180000-1

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

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11666	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
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

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

Job ID: 480-180000-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

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

Job ID: 480-180000-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180000-1	401075-MW-19-01052021	Water	01/05/21 11:54	01/08/21 10:00	
480-180000-2	401075-EB-01052021	Water	01/05/21 16:10	01/08/21 10:00	
480-180000-3	401075-FB-01052021	Water	01/05/21 16:15	01/08/21 10:00	
480-180000-4	401075-MW-20-01062021	Water	01/06/21 09:10	01/08/21 10:00	
480-180000-5	401075-MW-18-01062021	Water	01/06/21 11:23	01/08/21 10:00	
480-180000-6	401075-DUP-01062021	Water	01/06/21 00:00	01/08/21 10:00	
480-180000-7	401075-FB-01062021	Water	01/06/21 12:25	01/08/21 10:00	
480-180000-8	401075-EB-01062021	Water	01/06/21 12:30	01/08/21 10:00	
480-180000-9	401075-FB-01072021	Water	01/07/21 11:35	01/08/21 10:00	

Albany #224

eurolins
Environment Testing
America

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

Chain of Custody Record

Client Information		Lab PM: Stone, Judy L									
Client Contact: Emily Cummings		E-Mail: Judy.Stone@Eurolins.com									
Company: EA Engineering, Science, and Technology		PWSID:									
Address: 269 West Jefferson St. Suite 104		Due Date Requested:									
City: Syracuse		TAT Requested (days): 10									
State, Zip: NY, 13202		Compliance Project: ☐ Yes ☒ No									
Phone: 518-492-9874 (Ten) 860 309 3837		PO #: 48021140									
Email: ecummings@eaest.com		CallOut ID: 137528									
Project Name: Admiral Cleaners #401075		WO #:									
Site:		SSOW#:									
Sample Identification		Analysis Requested									
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=solid, O=Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC, IDA - PFA, Standard List (21 Analytes)	8270D_SIM_MS_ID - 1,4-Dioxane	Preservation Codes:	Special Instructions/Note:	
401075-MW-19	1/5/2021	1154	G	Water	N	N	N	N	A - HCL M - Hexane N - None 1aNaO2 1a2O4S 1a2SO3 1a2SO3 1SO4 P Dodecahydrate Stone AA 4-5 Other (specify)		
401075-EB-01052021	1/5/2021	1610	-	Water	N	N	N	N			
401075-EB-01052021	1/5/2021	1615	-	Water	N	N	N	N			
401075-MW-20	1/6/2021	0910	G	Water	N	N	N	N		MS/MSD	
401075-MW-18	1/6/2021	1123	G	Water	N	N	N	N			
401075-DUP-010621	1/6/2021	-	G	Water	N	N	N	N			
401075-FB-010621	1/6/21	1225	-	Water	N	N	N	N			
401075-EB-010621	1/6/21	1230	-	Water	N	N	N	N			
401075-FB-010721	1/7/21	1135	-	Water	N	N	N	N			
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		Special Instructions/QC Requirements:		Method of Shipment:	
Relinquished by: Noah Robinson		Date: 1/7/21 1300		Company: EA		Received by: [Signature]		Date/Time: 1-7-2021 1300		Company: EETA	
Relinquished by: [Signature]		Date/Time: 1-7-2021 1700		Company: EETA		Received by: [Signature]		Date/Time: 1/8/21 1000		Company: [Signature]	
Relinquished by: [Signature]		Date/Time: 1-7-2021		Company: [Signature]		Received by: [Signature]		Date/Time: [Signature]		Company: [Signature]	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
Delta Yes Delta No		Delta Yes Delta No		Delta Yes Delta No		Delta Yes Delta No		Delta Yes Delta No		Delta Yes Delta No	

#1 2.5.217

[illegible]



Environment Testing
TestAmerica

Sacramento
Sample Receiving Notes



480-180000 Field Sheet

Tracking #: 1891 4486 6050

SO / FO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Job: _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: AK-13 Corr. Factor: (+/-) 0.1 °C

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: _____

Cooler ID: _____

Temp Observed: 0.9 °C Corrected: 1.0 °C

From: Temp Blank ☒ Sample ☐

Opening/Processing The Shipment Yes No NA

Cooler compromised/tampered with? ☐ ☒ ☐

Cooler Temperature is acceptable? ☒ ☐ ☐

Frozen samples show signs of thaw? ☐ ☐ ☒

Initials: [Signature] Date: 8 Jan 21

Unpacking/Labeling The Samples Yes No NA

CoC is complete w/o discrepancies? ☒ ☐ ☐

Samples compromised/tampered with? ☐ ☒ ☐

Sample containers have legible labels? ☒ ☐ ☐

Sample custody seal? ☐ ☐ ☒

Containers are not broken or leaking? ☒ ☐ ☐

Sample date/times are provided? ☒ ☐ ☐

Appropriate containers are used? ☒ ☐ ☐

Sample bottles are completely filled? ☒ ☐ ☐

Sample preservatives verified? ☐ ☐ ☒

Samples w/o discrepancies? ☒ ☐ ☐

Zero headspace? * ☐ ☐ ☒

Alkalinity has no headspace? ☐ ☐ ☒

Perchlorate has headspace?
(Methods 314, 331, 6850) ☐ ☐ ☒

Multiphasic samples are not present? ☒ ☐ ☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [Signature] Date: 01/08/21

Notes: _____

Trizma Lot #(s): _____

Login Completion Yes No NA

Receipt Temperature on COC? ☒ ☐ ☐

Samples received within hold time? ☒ ☐ ☐

NCM Filed? ☐ ☐ ☒

Log Release checked in TALS? ☐ ☐ ☒

Initials: [Signature] Date: 01/08/21

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-180000-1

Login Number: 180000

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

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	EA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-180000-1

Login Number: 180000

List Number: 2

Creator: Saephan, Kae C

List Source: Eurofins TestAmerica, Sacramento

List Creation: 01/08/21 04:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	ob: 0.9c corr: 1.0c
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?	False	Received project as a subcontract.
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



January 28, 2021

Service Request No:R2100082

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 January 06, 2021
For your reference, these analyses have been assigned our service request number **R2100082**.

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



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



Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners
Sample Matrix: Water

Service Request: R2100082
Date Received: 01/06/2021

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:

Three water samples were received for analysis at ALS Environmental on 01/06/2021. 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:

No significant anomalies were noted with this analysis.

Semivolatile GC:

Method 8081B, 01/12/2021: 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 8081B, 01/12/2021: 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 8082A, 01/12/2021: 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 8082A, 01/12/2021: The Method Blank contained a low level of one or more analytes at concentrations above the Method Reporting Limit (MRL). Since there were no detections of the analyte(s) in the associated field samples, the data quality was not significantly affected and no further corrective action was taken.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 01/07/2021: 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, 01/07/2021: 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.

Approved by _____

Date 01/28/2021



Method 8260C, 01/11/2021: 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, 01/11/2021: 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, 01/11/2021: 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.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Meghan Pedro

Approved by _____

Date 01/28/2021



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)
Project: Admiral Cleaners/1602504/002

Service Request:R2100082

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2100082-001	401075-MW-7R	1/5/2021	1011
R2100082-002	401075-MW-19	1/5/2021	1154
R2100082-003	401075-TB-010521	1/5/2021	1310



Cooler Receipt and Preservation Check Form

R2100082

5

EA Engineering, Science, and Technology
Admiral CleanersProject/Client EA Engineering Folder Number _____Cooler received on 1/6/21 by: RDCOURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 1/6/21 Time: 0843 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.0</u>						
Within 0-6°C?	<u>Y</u> 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 @ on 1/6/21 at 0845
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 1/6/21 Time: 1705 by: AW

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
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?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>223419</u>	HNO ₃	<u>✓</u>		<u>1120082</u>					
≤2		H ₂ SO ₄			<u>Client label</u>					
<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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O 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: 91120-03, 20-10-28, Client label

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: AWPC Secondary Review: AW

*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.	+	Correlation coefficient for MSA is <0.995.
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/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
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.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	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 Certifications¹

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 laboratory's 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.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002

Service Request: R2100082

Sample Name: 401075-MW-7R
Lab Code: R2100082-001
Sample Matrix: Water

Date Collected: 01/5/21
Date Received: 01/6/21

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
9056A		KWONG
RSK 175		FNAEGLER
SM 2320 B-1997(2011)		KWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: 401075-MW-7R
Lab Code: R2100082-001.R01
Sample Matrix: Water

Date Collected: 01/5/21
Date Received: 01/6/21

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: 401075-MW-19
Lab Code: R2100082-002
Sample Matrix: Water

Date Collected: 01/5/21
Date Received: 01/6/21

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7470A	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: 401075-TB-010521
Lab Code: R2100082-003
Sample Matrix: Water

Date Collected: 01/5/21
Date Received: 01/6/21

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

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 10:11
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-7R
Lab Code: R2100082-001

Units: ug/L
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	01/07/21 20:27	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,1-Dichloroethene (1,1-DCE)	0.32 J	5.0	0.20	1	01/07/21 20:27	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/07/21 20:27	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/07/21 20:27	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:27	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:27	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/07/21 20:27	
2-Hexanone	0.20 U	10	0.20	1	01/07/21 20:27	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/07/21 20:27	
Acetone	5.0 U	10	5.0	1	01/07/21 20:27	
Benzene	0.20 U	5.0	0.20	1	01/07/21 20:27	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/07/21 20:27	
Bromoform	0.25 U	5.0	0.25	1	01/07/21 20:27	
Bromomethane	0.70 U	5.0	0.70	1	01/07/21 20:27	
Carbon Disulfide	0.42 U	10	0.42	1	01/07/21 20:27	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/07/21 20:27	
Chlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:27	
Chloroethane	0.23 U	5.0	0.23	1	01/07/21 20:27	
Chloroform	0.24 U	5.0	0.24	1	01/07/21 20:27	
Chloromethane	0.28 U	5.0	0.28	1	01/07/21 20:27	
Cyclohexane	0.26 U	10	0.26	1	01/07/21 20:27	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/07/21 20:27	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/07/21 20:27	
Dichloromethane	0.65 U	5.0	0.65	1	01/07/21 20:27	
Ethylbenzene	0.20 U	5.0	0.20	1	01/07/21 20:27	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/07/21 20:27	
Methyl Acetate	0.33 U	10	0.33	1	01/07/21 20:27	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/07/21 20:27	
Methylcyclohexane	0.20 U	10	0.20	1	01/07/21 20:27	
Styrene	0.20 U	5.0	0.20	1	01/07/21 20:27	
Tetrachloroethene (PCE)	160	5.0	0.21	1	01/07/21 20:27	
Toluene	0.20 U	5.0	0.20	1	01/07/21 20:27	
Trichloroethene (TCE)	29	5.0	0.20	1	01/07/21 20:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 10:11
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-7R
Lab Code: R2100082-001

Units: ug/L
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	01/07/21 20:27	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/07/21 20:27	
Xylenes, Total	0.23 U	5.0	0.23	1	01/07/21 20:27	
cis-1,2-Dichloroethene	250 D	13	0.58	2.5	01/11/21 20:41	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/07/21 20:27	
trans-1,2-Dichloroethene	0.99 J	5.0	0.20	1	01/07/21 20:27	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/07/21 20:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	01/07/21 20:27	
Dibromofluoromethane	100	80 - 116	01/07/21 20:27	
Toluene-d8	100	87 - 121	01/07/21 20:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 11:54
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-19
Lab Code: R2100082-002

Units: ug/L
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	01/07/21 20:49	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/07/21 20:49	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/07/21 20:49	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:49	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:49	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/07/21 20:49	
2-Hexanone	0.20 U	10	0.20	1	01/07/21 20:49	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/07/21 20:49	
Acetone	5.0 U	10	5.0	1	01/07/21 20:49	
Benzene	0.20 U	5.0	0.20	1	01/07/21 20:49	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/07/21 20:49	
Bromoform	0.25 U	5.0	0.25	1	01/07/21 20:49	
Bromomethane	0.70 U	5.0	0.70	1	01/07/21 20:49	
Carbon Disulfide	0.42 U	10	0.42	1	01/07/21 20:49	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/07/21 20:49	
Chlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:49	
Chloroethane	0.23 U	5.0	0.23	1	01/07/21 20:49	
Chloroform	0.24 U	5.0	0.24	1	01/07/21 20:49	
Chloromethane	0.28 U	5.0	0.28	1	01/07/21 20:49	
Cyclohexane	0.26 U	10	0.26	1	01/07/21 20:49	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/07/21 20:49	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/07/21 20:49	
Dichloromethane	0.65 U	5.0	0.65	1	01/07/21 20:49	
Ethylbenzene	0.20 U	5.0	0.20	1	01/07/21 20:49	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/07/21 20:49	
Methyl Acetate	0.33 U	10	0.33	1	01/07/21 20:49	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/07/21 20:49	
Methylcyclohexane	0.20 U	10	0.20	1	01/07/21 20:49	
Styrene	0.20 U	5.0	0.20	1	01/07/21 20:49	
Tetrachloroethene (PCE)	24	5.0	0.21	1	01/07/21 20:49	
Toluene	0.20 U	5.0	0.20	1	01/07/21 20:49	
Trichloroethene (TCE)	0.89 J	5.0	0.20	1	01/07/21 20:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 11:54
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-19
Lab Code: R2100082-002

Units: ug/L
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	01/07/21 20:49	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/07/21 20:49	
Xylenes, Total	0.23 U	5.0	0.23	1	01/07/21 20:49	
cis-1,2-Dichloroethene	15	5.0	0.23	1	01/07/21 20:49	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/07/21 20:49	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/07/21 20:49	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/07/21 20:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	01/07/21 20:49	
Dibromofluoromethane	99	80 - 116	01/07/21 20:49	
Toluene-d8	98	87 - 121	01/07/21 20:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 13:10
Date Received: 01/06/21 08:40

Sample Name: 401075-TB-010521
Lab Code: R2100082-003

Units: ug/L
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	01/07/21 20:05	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/07/21 20:05	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/07/21 20:05	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:05	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:05	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/07/21 20:05	
2-Hexanone	0.20 U	10	0.20	1	01/07/21 20:05	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/07/21 20:05	
Acetone	5.0 U	10	5.0	1	01/07/21 20:05	
Benzene	0.20 U	5.0	0.20	1	01/07/21 20:05	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/07/21 20:05	
Bromoform	0.25 U	5.0	0.25	1	01/07/21 20:05	
Bromomethane	0.70 U	5.0	0.70	1	01/07/21 20:05	
Carbon Disulfide	0.42 U	10	0.42	1	01/07/21 20:05	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/07/21 20:05	
Chlorobenzene	0.20 U	5.0	0.20	1	01/07/21 20:05	
Chloroethane	0.23 U	5.0	0.23	1	01/07/21 20:05	
Chloroform	0.24 U	5.0	0.24	1	01/07/21 20:05	
Chloromethane	0.28 U	5.0	0.28	1	01/07/21 20:05	
Cyclohexane	0.26 U	10	0.26	1	01/07/21 20:05	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/07/21 20:05	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/07/21 20:05	
Dichloromethane	0.65 U	5.0	0.65	1	01/07/21 20:05	
Ethylbenzene	0.20 U	5.0	0.20	1	01/07/21 20:05	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/07/21 20:05	
Methyl Acetate	0.33 U	10	0.33	1	01/07/21 20:05	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/07/21 20:05	
Methylcyclohexane	0.20 U	10	0.20	1	01/07/21 20:05	
Styrene	0.20 U	5.0	0.20	1	01/07/21 20:05	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/07/21 20:05	
Toluene	0.20 U	5.0	0.20	1	01/07/21 20:05	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/07/21 20:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 13:10
Date Received: 01/06/21 08:40

Sample Name: 401075-TB-010521
Lab Code: R2100082-003

Units: ug/L
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	01/07/21 20:05	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/07/21 20:05	
Xylenes, Total	0.23 U	5.0	0.23	1	01/07/21 20:05	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/07/21 20:05	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/07/21 20:05	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/07/21 20:05	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/07/21 20:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	01/07/21 20:05	
Dibromofluoromethane	98	80 - 116	01/07/21 20:05	
Toluene-d8	97	87 - 121	01/07/21 20:05	



Volatile Organic Compounds by GC

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 10:11
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-7R
Lab Code: R2100082-001

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	0.17 U	1.0	0.17	1	01/14/21 11:56	
Ethylene	0.35 U	1.0	0.35	1	01/14/21 11:56	
Methane	0.75 U	1.1	0.75	1	01/14/21 11:56	
Propane	0.28 U	1.0	0.28	1	01/14/21 11:56	



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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 11:54
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-19
Lab Code: R2100082-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
2,3,4,6-Tetrachlorophenol	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
2,4,5-Trichlorophenol	0.99 U	9.1	0.99	1	01/20/21 02:20	1/11/21	
2,4,6-Trichlorophenol	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
2,4-Dichlorophenol	1.2 U	9.1	1.2	1	01/20/21 02:20	1/11/21	
2,4-Dimethylphenol	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
2,4-Dinitrophenol	19 U	45	19	1	01/20/21 02:20	1/11/21	
2,4-Dinitrotoluene	2.2 U	9.1	2.2	1	01/20/21 02:20	1/11/21	
2,6-Dinitrotoluene	1.2 U	9.1	1.2	1	01/20/21 02:20	1/11/21	
2-Chloronaphthalene	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
2-Chlorophenol	0.97 U	9.1	0.97	1	01/20/21 02:20	1/11/21	
2-Methylnaphthalene	1.2 U	9.1	1.2	1	01/20/21 02:20	1/11/21	
2-Methylphenol	0.91 U	9.1	0.91	1	01/20/21 02:20	1/11/21	
2-Nitroaniline	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
2-Nitrophenol	1.4 U	9.1	1.4	1	01/20/21 02:20	1/11/21	
3,3'-Dichlorobenzidine	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
3- and 4-Methylphenol Coelution	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
3-Nitroaniline	2.3 U	9.1	2.3	1	01/20/21 02:20	1/11/21	
4,6-Dinitro-2-methylphenol	18 U	45	18	1	01/20/21 02:20	1/11/21	
4-Bromophenyl Phenyl Ether	1.5 U	9.1	1.5	1	01/20/21 02:20	1/11/21	
4-Chloro-3-methylphenol	0.98 U	9.1	0.98	1	01/20/21 02:20	1/11/21	
4-Chloroaniline	0.91 U	9.1	0.91	1	01/20/21 02:20	1/11/21	
4-Chlorophenyl Phenyl Ether	1.4 U	9.1	1.4	1	01/20/21 02:20	1/11/21	
4-Nitroaniline	2.5 U	9.1	2.5	1	01/20/21 02:20	1/11/21	
4-Nitrophenol	5.8 U	45	5.8	1	01/20/21 02:20	1/11/21	
Acenaphthene	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
Acenaphthylene	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
Acetophenone	1.2 U	9.1	1.2	1	01/20/21 02:20	1/11/21	
Anthracene	1.2 U	9.1	1.2	1	01/20/21 02:20	1/11/21	
Atrazine	1.9 U	9.1	1.9	1	01/20/21 02:20	1/11/21	
Benz(a)anthracene	1.5 U	9.1	1.5	1	01/20/21 02:20	1/11/21	
Benzaldehyde	3.4 U	9.1	3.4	1	01/20/21 02:20	1/11/21	
Benzo(a)pyrene	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
Benzo(b)fluoranthene	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
Benzo(g,h,i)perylene	0.91 U	9.1	0.91	1	01/20/21 02:20	1/11/21	
Benzo(k)fluoranthene	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
Biphenyl	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
2,2'-Oxybis(1-chloropropane)	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
Bis(2-chloroethoxy)methane	1.8 U	9.1	1.8	1	01/20/21 02:20	1/11/21	
Bis(2-chloroethyl) Ether	1.2 U	9.1	1.2	1	01/20/21 02:20	1/11/21	
Bis(2-ethylhexyl) Phthalate	0.91 U	9.1	0.91	1	01/20/21 02:20	1/11/21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 11:54
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-19
Lab Code: R2100082-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Butyl Benzyl Phthalate	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
Caprolactam	0.91 U	9.1	0.91	1	01/20/21 02:20	1/11/21	
Carbazole	1.4 U	9.1	1.4	1	01/20/21 02:20	1/11/21	
Chrysene	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
Di-n-butyl Phthalate	1.9 U	9.1	1.9	1	01/20/21 02:20	1/11/21	
Di-n-octyl Phthalate	3.0 U	9.1	3.0	1	01/20/21 02:20	1/11/21	
Dibenz(a,h)anthracene	0.93 U	9.1	0.93	1	01/20/21 02:20	1/11/21	
Dibenzofuran	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
Diethyl Phthalate	0.98 U	9.1	0.98	1	01/20/21 02:20	1/11/21	
Dimethyl Phthalate	1.2 U	9.1	1.2	1	01/20/21 02:20	1/11/21	
Fluoranthene	1.4 U	9.1	1.4	1	01/20/21 02:20	1/11/21	
Fluorene	1.2 U	9.1	1.2	1	01/20/21 02:20	1/11/21	
Hexachlorobenzene	1.4 U	9.1	1.4	1	01/20/21 02:20	1/11/21	
Hexachlorobutadiene	0.91 U	9.1	0.91	1	01/20/21 02:20	1/11/21	
Hexachlorocyclopentadiene	2.0 U	9.1	2.0	1	01/20/21 02:20	1/11/21	
Hexachloroethane	0.96 U	9.1	0.96	1	01/20/21 02:20	1/11/21	
Indeno(1,2,3-cd)pyrene	1.6 U	9.1	1.6	1	01/20/21 02:20	1/11/21	
Isophorone	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
N-Nitrosodi-n-propylamine	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
N-Nitrosodiphenylamine	2.4 U	9.1	2.4	1	01/20/21 02:20	1/11/21	
Naphthalene	1.1 U	9.1	1.1	1	01/20/21 02:20	1/11/21	
Nitrobenzene	1.4 U	9.1	1.4	1	01/20/21 02:20	1/11/21	
Pentachlorophenol (PCP)	8.9 U	45	8.9	1	01/20/21 02:20	1/11/21	
Phenanthrene	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	
Phenol	0.91 U	9.1	0.91	1	01/20/21 02:20	1/11/21	
Pyrene	1.3 U	9.1	1.3	1	01/20/21 02:20	1/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	69	35 - 141	01/20/21 02:20	
2-Fluorobiphenyl	58	31 - 118	01/20/21 02:20	
2-Fluorophenol	33	10 - 105	01/20/21 02:20	
Nitrobenzene-d5	56	31 - 110	01/20/21 02:20	
Phenol-d6	23	10 - 107	01/20/21 02:20	
Terphenyl-d14	68	10 - 165	01/20/21 02:20	



Semivolatile Organic Compounds by GC

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 11:54
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-19
Lab Code: R2100082-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
4,4'-DDE	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
4,4'-DDT	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Aldrin	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Dieldrin	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Endosulfan I	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Endosulfan II	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Endosulfan Sulfate	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Endrin	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Endrin Aldehyde	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Endrin Ketone	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Heptachlor	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Heptachlor Epoxide	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Methoxychlor	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
Toxaphene	0.46 U	0.46	0.46	1	01/12/21 19:23	1/7/21	
alpha-BHC	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
alpha-Chlordane	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
beta-BHC	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
delta-BHC	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
gamma-BHC (Lindane)	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	
gamma-Chlordane	0.019 U	0.045	0.019	1	01/12/21 19:23	1/7/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 164	01/12/21 19:23	
Tetrachloro-m-xylene	67	10 - 147	01/12/21 19:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21 11:54
Date Received: 01/06/21 08:40

Sample Name: 401075-MW-19
Lab Code: R2100082-002

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.46 U	0.91	0.46	1	01/12/21 21:44	1/7/21	
Aroclor 1221	0.91 U	1.8	0.91	1	01/12/21 21:44	1/7/21	
Aroclor 1232	0.46 U	0.91	0.46	1	01/12/21 21:44	1/7/21	
Aroclor 1242	0.46 U	0.91	0.46	1	01/12/21 21:44	1/7/21	
Aroclor 1248	0.46 U	0.91	0.46	1	01/12/21 21:44	1/7/21	
Aroclor 1254	0.46 U	0.91	0.46	1	01/12/21 21:44	1/7/21	
Aroclor 1260	0.46 U	0.91	0.46	1	01/12/21 21:44	1/7/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	66	10 - 152	01/12/21 21:44	
Tetrachloro-m-xylene	57	14 - 129	01/12/21 21:44	



Metals

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

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: EA Engineering, Science, and Tec **Service Request:** 401075-MW-19
Project No.: R2100082 **Date Collected:** 1/5/2021
Project Name: **Date Received:** 1/6/2021
Matrix: WATER **Units:** ug/L
Basis:

Sample Name: 401075-MW-19 **Lab Code:** R2100082-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	505		
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	5.5	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	159		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	41700		
Chromium	6010C	10.0	0.590	1.0	0.700	J	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	61.0	1.0	715		
Lead	6010C	50.0	2.1	1.0	2.7	J	
Magnesium	6010C	1000	29.0	1.0	14000		
Manganese	6010C	10.0	3.7	1.0	306		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	12200		
Selenium	6010C	10.0	6.4	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	39500		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	1.8	J	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:



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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water
Sample Name: 401075-MW-7R
Lab Code: R2100082-001

Service Request: R2100082
Date Collected: 01/05/21 10:11
Date Received: 01/06/21 08:40

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	197	mg/L	2.0	1.8	1	01/10/21 04:51	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.4	mg/L	1.0	0.5	1	01/14/21 23:53	
Nitrate as Nitrogen	9056A	4.0	mg/L	1.0	0.2	10	01/06/21 18:11	
Nitrite as Nitrogen	9056A	0.2 U	mg/L	1.0	0.2	10	01/06/21 18:11	
Sulfate	9056A	145	mg/L	4.0	0.8	20	01/08/21 17:45	



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

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)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
401075-MW-7R	R2100082-001	90	100	100
401075-MW-19	R2100082-002	89	99	98
401075-TB-010521	R2100082-003	88	98	97
Method Blank	RQ2100172-04	89	101	96
Method Blank	RQ2100267-04	85	97	97
Lab Control Sample	RQ2100172-03	91	102	97
Lab Control Sample	RQ2100267-03	87	98	95

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100172-04

Units: ug/L
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	01/07/21 13:42	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/07/21 13:42	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/07/21 13:42	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 13:42	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/07/21 13:42	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/07/21 13:42	
2-Hexanone	0.20 U	10	0.20	1	01/07/21 13:42	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/07/21 13:42	
Acetone	5.0 U	10	5.0	1	01/07/21 13:42	
Benzene	0.20 U	5.0	0.20	1	01/07/21 13:42	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/07/21 13:42	
Bromoform	0.25 U	5.0	0.25	1	01/07/21 13:42	
Bromomethane	0.70 U	5.0	0.70	1	01/07/21 13:42	
Carbon Disulfide	0.42 U	10	0.42	1	01/07/21 13:42	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/07/21 13:42	
Chlorobenzene	0.20 U	5.0	0.20	1	01/07/21 13:42	
Chloroethane	0.23 U	5.0	0.23	1	01/07/21 13:42	
Chloroform	0.24 U	5.0	0.24	1	01/07/21 13:42	
Chloromethane	0.28 U	5.0	0.28	1	01/07/21 13:42	
Cyclohexane	0.26 U	10	0.26	1	01/07/21 13:42	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/07/21 13:42	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/07/21 13:42	
Dichloromethane	0.65 U	5.0	0.65	1	01/07/21 13:42	
Ethylbenzene	0.20 U	5.0	0.20	1	01/07/21 13:42	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/07/21 13:42	
Methyl Acetate	0.33 U	10	0.33	1	01/07/21 13:42	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/07/21 13:42	
Methylcyclohexane	0.20 U	10	0.20	1	01/07/21 13:42	
Styrene	0.20 U	5.0	0.20	1	01/07/21 13:42	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/07/21 13:42	
Toluene	0.20 U	5.0	0.20	1	01/07/21 13:42	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/07/21 13:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100172-04

Units: ug/L
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	01/07/21 13:42	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/07/21 13:42	
Xylenes, Total	0.23 U	5.0	0.23	1	01/07/21 13:42	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/07/21 13:42	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/07/21 13:42	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/07/21 13:42	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/07/21 13:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	01/07/21 13:42	
Dibromofluoromethane	101	80 - 116	01/07/21 13:42	
Toluene-d8	96	87 - 121	01/07/21 13:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100267-04

Units: ug/L
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	01/11/21 13:24	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/11/21 13:24	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/11/21 13:24	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/11/21 13:24	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/11/21 13:24	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/11/21 13:24	
2-Hexanone	0.20 U	10	0.20	1	01/11/21 13:24	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/11/21 13:24	
Acetone	5.0 U	10	5.0	1	01/11/21 13:24	
Benzene	0.20 U	5.0	0.20	1	01/11/21 13:24	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/11/21 13:24	
Bromoform	0.25 U	5.0	0.25	1	01/11/21 13:24	
Bromomethane	0.70 U	5.0	0.70	1	01/11/21 13:24	
Carbon Disulfide	0.42 U	10	0.42	1	01/11/21 13:24	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/11/21 13:24	
Chlorobenzene	0.20 U	5.0	0.20	1	01/11/21 13:24	
Chloroethane	0.23 U	5.0	0.23	1	01/11/21 13:24	
Chloroform	0.24 U	5.0	0.24	1	01/11/21 13:24	
Chloromethane	0.35 J	5.0	0.28	1	01/11/21 13:24	
Cyclohexane	0.26 U	10	0.26	1	01/11/21 13:24	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/11/21 13:24	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/11/21 13:24	
Dichloromethane	0.65 U	5.0	0.65	1	01/11/21 13:24	
Ethylbenzene	0.20 U	5.0	0.20	1	01/11/21 13:24	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/11/21 13:24	
Methyl Acetate	0.33 U	10	0.33	1	01/11/21 13:24	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/11/21 13:24	
Methylcyclohexane	0.20 U	10	0.20	1	01/11/21 13:24	
Styrene	0.20 U	5.0	0.20	1	01/11/21 13:24	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/11/21 13:24	
Toluene	0.20 U	5.0	0.20	1	01/11/21 13:24	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/11/21 13:24	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100267-04

Units: ug/L
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	01/11/21 13:24	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/11/21 13:24	
Xylenes, Total	0.23 U	5.0	0.23	1	01/11/21 13:24	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/11/21 13:24	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/11/21 13:24	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/11/21 13:24	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/11/21 13:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	85 - 122	01/11/21 13:24	
Dibromofluoromethane	97	80 - 116	01/11/21 13:24	
Toluene-d8	97	87 - 121	01/11/21 13:24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/07/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100172-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.1	20.0	110	75-125
1,1,2,2-Tetrachloroethane	8260C	19.9	20.0	100	78-126
1,1,2-Trichloroethane	8260C	20.7	20.0	103	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	21.7	20.0	108	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.7	20.0	98	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	25.8	20.0	129 *	71-118
1,2,4-Trichlorobenzene	8260C	21.1	20.0	105	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.9	20.0	95	55-136
1,2-Dibromoethane	8260C	20.0	20.0	100	82-127
1,2-Dichlorobenzene	8260C	21.5	20.0	107	80-119
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
1,2-Dichloropropane	8260C	20.0	20.0	100	80-119
1,3-Dichlorobenzene	8260C	21.2	20.0	106	83-121
1,4-Dichlorobenzene	8260C	20.7	20.0	104	79-119
2-Butanone (MEK)	8260C	15.0	20.0	75	61-137
2-Hexanone	8260C	16.1	20.0	81	63-124
4-Methyl-2-pentanone	8260C	17.3	20.0	86	66-124
Acetone	8260C	14.0	20.0	70	40-161
Benzene	8260C	20.6	20.0	103	79-119
Bromodichloromethane	8260C	20.8	20.0	104	81-123
Bromoform	8260C	26.2	20.0	131	65-146
Bromomethane	8260C	16.1	20.0	80	42-166
Carbon Disulfide	8260C	19.2	20.0	96	66-128
Carbon Tetrachloride	8260C	22.0	20.0	110	70-127
Chlorobenzene	8260C	21.5	20.0	107	80-121
Chloroethane	8260C	15.0	20.0	75	62-131
Chloroform	8260C	20.4	20.0	102	79-120
Chloromethane	8260C	17.3	20.0	87	65-135
Cyclohexane	8260C	22.4	20.0	112	69-120
Dibromochloromethane	8260C	23.8	20.0	119	72-128
Dichlorodifluoromethane (CFC 12)	8260C	18.7	20.0	93	59-155
Dichloromethane	8260C	19.6	20.0	98	73-122
Ethylbenzene	8260C	21.7	20.0	109	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/07/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100172-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	22.4	20.0	112	77-128
Methyl Acetate	8260C	16.6	20.0	83	61-133
Methyl tert-Butyl Ether	8260C	20.3	20.0	101	75-118
Methylcyclohexane	8260C	22.4	20.0	112	51-129
Styrene	8260C	21.4	20.0	107	80-124
Tetrachloroethene (PCE)	8260C	22.9	20.0	114	72-125
Toluene	8260C	20.9	20.0	105	79-119
Trichloroethene (TCE)	8260C	20.5	20.0	102	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.6	20.0	108	71-136
Vinyl Chloride	8260C	16.6	20.0	83	74-159
cis-1,2-Dichloroethene	8260C	22.6	20.0	113	80-121
cis-1,3-Dichloropropene	8260C	20.2	20.0	101	77-122
trans-1,2-Dichloroethene	8260C	22.8	20.0	114	73-118
trans-1,3-Dichloropropene	8260C	20.2	20.0	101	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/11/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100267-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.9	20.0	104	75-125
1,1,2,2-Tetrachloroethane	8260C	18.3	20.0	92	78-126
1,1,2-Trichloroethane	8260C	19.2	20.0	96	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	18.7	20.0	94	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.2	20.0	121 *	71-118
1,2,4-Trichlorobenzene	8260C	20.7	20.0	103	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.7	20.0	88	55-136
1,2-Dibromoethane	8260C	18.9	20.0	95	82-127
1,2-Dichlorobenzene	8260C	19.8	20.0	99	80-119
1,2-Dichloroethane	8260C	18.1	20.0	91	71-127
1,2-Dichloropropane	8260C	18.3	20.0	91	80-119
1,3-Dichlorobenzene	8260C	20.7	20.0	103	83-121
1,4-Dichlorobenzene	8260C	19.7	20.0	99	79-119
2-Butanone (MEK)	8260C	15.4	20.0	77	61-137
2-Hexanone	8260C	16.8	20.0	84	63-124
4-Methyl-2-pentanone	8260C	16.8	20.0	84	66-124
Acetone	8260C	13.1	20.0	66	40-161
Benzene	8260C	18.9	20.0	94	79-119
Bromodichloromethane	8260C	20.1	20.0	101	81-123
Bromoform	8260C	26.1	20.0	131	65-146
Bromomethane	8260C	14.7	20.0	73	42-166
Carbon Disulfide	8260C	21.9	20.0	109	66-128
Carbon Tetrachloride	8260C	21.5	20.0	108	70-127
Chlorobenzene	8260C	20.3	20.0	102	80-121
Chloroethane	8260C	14.3	20.0	71	62-131
Chloroform	8260C	19.1	20.0	95	79-120
Chloromethane	8260C	16.0	20.0	80	65-135
Cyclohexane	8260C	22.5	20.0	112	69-120
Dibromochloromethane	8260C	22.4	20.0	112	72-128
Dichlorodifluoromethane (CFC 12)	8260C	16.3	20.0	81	59-155
Dichloromethane	8260C	17.2	20.0	86	73-122
Ethylbenzene	8260C	21.0	20.0	105	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/11/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100267-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.1	20.0	105	77-128
Methyl Acetate	8260C	16.5	20.0	83	61-133
Methyl tert-Butyl Ether	8260C	18.0	20.0	90	75-118
Methylcyclohexane	8260C	22.8	20.0	114	51-129
Styrene	8260C	20.2	20.0	101	80-124
Tetrachloroethene (PCE)	8260C	21.2	20.0	106	72-125
Toluene	8260C	19.8	20.0	99	79-119
Trichloroethene (TCE)	8260C	18.6	20.0	93	74-122
Trichlorofluoromethane (CFC 11)	8260C	19.6	20.0	98	71-136
Vinyl Chloride	8260C	14.9	20.0	75	74-159
cis-1,2-Dichloroethene	8260C	21.4	20.0	107	80-121
cis-1,3-Dichloropropene	8260C	19.3	20.0	97	77-122
trans-1,2-Dichloroethene	8260C	21.7	20.0	109	73-118
trans-1,3-Dichloropropene	8260C	20.6	20.0	103	71-133



Volatile Organic Compounds by GC

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100405-02

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	0.17 U	1.0	0.17	1	01/14/21 10:58	
Ethylene	0.35 U	1.0	0.35	1	01/14/21 10:58	
Methane	0.75 U	1.1	0.75	1	01/14/21 10:58	
Propane	0.28 U	1.0	0.28	1	01/14/21 10:58	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/14/21

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100405-03

Duplicate Lab Control Sample
RQ2100405-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	26.4	26.0	101	26.0	26.0	100	76-126	1	20
Ethylene	RSK 175	24.3	24.3	100	24.2	24.3	100	73-129	<1	20
Methane	RSK 175	27.2	26.2	104	26.1	26.2	99	75-128	4	20
Propane	RSK 175	25.0	25.4	98	23.7	25.4	93	73-131	5	20



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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
401075-MW-19	R2100082-002	69	58	33
Method Blank	RQ2100232-03	66	58	34
Lab Control Sample	RQ2100232-04	83	70	35
Duplicate Lab Control Sample	RQ2100232-05	81	74	41

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		31-110	10-107	10-165
401075-MW-19	R2100082-002	56	23	68
Method Blank	RQ2100232-03	55	24	72
Lab Control Sample	RQ2100232-04	61	26	82
Duplicate Lab Control Sample	RQ2100232-05	70	30	82

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100232-03

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
2,3,4,6-Tetrachlorophenol	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
2,4,5-Trichlorophenol	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
2,4,6-Trichlorophenol	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2,4-Dichlorophenol	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
2,4-Dimethylphenol	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2,4-Dinitrophenol	20 U	50	20	1	01/19/21 23:54	1/11/21	
2,4-Dinitrotoluene	2.4 U	10	2.4	1	01/19/21 23:54	1/11/21	
2,6-Dinitrotoluene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2-Chloronaphthalene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2-Chlorophenol	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
2-Methylnaphthalene	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
2-Methylphenol	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
2-Nitroaniline	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2-Nitrophenol	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	
3,3'-Dichlorobenzidine	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
3- and 4-Methylphenol Coelution	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
3-Nitroaniline	2.5 U	10	2.5	1	01/19/21 23:54	1/11/21	
4,6-Dinitro-2-methylphenol	20 U	50	20	1	01/19/21 23:54	1/11/21	
4-Bromophenyl Phenyl Ether	1.7 U	10	1.7	1	01/19/21 23:54	1/11/21	
4-Chloro-3-methylphenol	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
4-Chloroaniline	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
4-Chlorophenyl Phenyl Ether	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	
4-Nitroaniline	2.7 U	10	2.7	1	01/19/21 23:54	1/11/21	
4-Nitrophenol	6.4 U	50	6.4	1	01/19/21 23:54	1/11/21	
Acenaphthene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Acenaphthylene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Acetophenone	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Anthracene	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Atrazine	2.1 U	10	2.1	1	01/19/21 23:54	1/11/21	
Benz(a)anthracene	1.6 U	10	1.6	1	01/19/21 23:54	1/11/21	
Benzaldehyde	3.7 U	10	3.7	1	01/19/21 23:54	1/11/21	
Benzo(a)pyrene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
Benzo(b)fluoranthene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
Benzo(g,h,i)perylene	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
Benzo(k)fluoranthene	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Biphenyl	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2,2'-Oxybis(1-chloropropane)	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Bis(2-chloroethoxy)methane	1.9 U	10	1.9	1	01/19/21 23:54	1/11/21	
Bis(2-chloroethyl) Ether	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Bis(2-ethylhexyl) Phthalate	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100232-03

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Butyl Benzyl Phthalate	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Caprolactam	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
Carbazole	1.6 U	10	1.6	1	01/19/21 23:54	1/11/21	
Chrysene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
Di-n-butyl Phthalate	2.0 U	10	2.0	1	01/19/21 23:54	1/11/21	
Di-n-octyl Phthalate	3.3 U	10	3.3	1	01/19/21 23:54	1/11/21	
Dibenz(a,h)anthracene	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
Dibenzofuran	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Diethyl Phthalate	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
Dimethyl Phthalate	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Fluoranthene	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	
Fluorene	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Hexachlorobenzene	1.6 U	10	1.6	1	01/19/21 23:54	1/11/21	
Hexachlorobutadiene	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
Hexachlorocyclopentadiene	2.2 U	10	2.2	1	01/19/21 23:54	1/11/21	
Hexachloroethane	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
Indeno(1,2,3-cd)pyrene	1.8 U	10	1.8	1	01/19/21 23:54	1/11/21	
Isophorone	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
N-Nitrosodi-n-propylamine	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
N-Nitrosodiphenylamine	2.7 U	10	2.7	1	01/19/21 23:54	1/11/21	
Naphthalene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
Nitrobenzene	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	
Pentachlorophenol (PCP)	9.8 U	50	9.8	1	01/19/21 23:54	1/11/21	
Phenanthrene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Phenol	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
Pyrene	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	66	35 - 141	01/19/21 23:54	
2-Fluorobiphenyl	58	31 - 118	01/19/21 23:54	
2-Fluorophenol	34	10 - 105	01/19/21 23:54	
Nitrobenzene-d5	55	31 - 110	01/19/21 23:54	
Phenol-d6	24	10 - 107	01/19/21 23:54	
Terphenyl-d14	72	10 - 165	01/19/21 23:54	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/20/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2100232-04					Duplicate Lab Control Sample RQ2100232-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	8270D	50.8	80.1	63	52.0	80.1	65	15-132	3	30
2,3,4,6-Tetrachlorophenol	8270D	63.7	80.0	80	65.6	80.0	82	42-136	2	30
2,4,5-Trichlorophenol	8270D	58.6	80.0	73	59.5	80.0	74	48-134	1	30
2,4,6-Trichlorophenol	8270D	55.1	80.0	69	56.2	80.0	70	44-135	1	30
2,4-Dichlorophenol	8270D	48.4	80.0	61	51.5	80.0	64	48-127	5	30
2,4-Dimethylphenol	8270D	48.4	80.0	60	50.5	80.0	63	59-113	5	30
2,4-Dinitrophenol	8270D	39.3 J	80.0	49	48.2 J	80.0	60	21-154	20	30
2,4-Dinitrotoluene	8270D	62.9	80.0	79	62.2	80.0	78	54-130	1	30
2,6-Dinitrotoluene	8270D	68.5	80.0	86	66.5	80.0	83	51-127	4	30
2-Chloronaphthalene	8270D	48.4	80.0	61	52.9	80.0	66	40-108	8	30
2-Chlorophenol	8270D	40.9	80.0	51	46.6	80.0	58	42-112	13	30
2-Methylnaphthalene	8270D	45.0	80.0	56	51.1	80.0	64	34-102	13	30
2-Methylphenol	8270D	40.8	80.0	51	45.7	80.0	57	47-100	11	30
2-Nitroaniline	8270D	63.9	80.0	80	64.1	80.0	80	52-133	<1	30
2-Nitrophenol	8270D	47.7	80.0	60	50.9	80.0	64	43-131	6	30
3,3'-Dichlorobenzidine	8270D	66.5	80.0	83	65.3	80.0	82	43-126	1	30
3- and 4-Methylphenol Coelution	8270D	41.3	80.0	52	42.0	80.0	52	40-92	<1	30
3-Nitroaniline	8270D	54.6	80.0	68	55.1	80.0	69	42-111	1	30
4,6-Dinitro-2-methylphenol	8270D	56.0	80.0	70	54.9	80.0	69	36-152	1	30
4-Bromophenyl Phenyl Ether	8270D	69.2	80.0	86	71.6	80.0	89	48-114	3	30
4-Chloro-3-methylphenol	8270D	56.3	80.0	70	55.5	80.0	69	52-113	1	30
4-Chloroaniline	8270D	58.1	80.0	73	60.5	80.0	76	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	55.7	80.0	70	59.4	80.0	74	51-107	6	30
4-Nitroaniline	8270D	58.5	80.0	73	54.9	80.0	69	54-133	6	30
4-Nitrophenol	8270D	22.1 J	80.0	28	27.2 J	80.0	34	10-126	19	30
Acenaphthene	8270D	55.7	80.0	70	58.7	80.0	73	52-107	4	30
Acenaphthylene	8270D	57.5	80.0	72	60.2	80.0	75	55-109	4	30
Acetophenone	8270D	98.3	160	61	106	160	66	46-114	8	30
Anthracene	8270D	69.0	80.0	86	68.6	80.0	86	55-116	<1	30
Atrazine	8270D	83.8	80.0	105	96.7	80.0	121	61-164	14	30
Benz(a)anthracene	8270D	64.4	80.0	81	62.6	80.0	78	61-121	4	30
Benzaldehyde	8270D	51.7	80.0	65	57.4	80.0	72	45-132	10	30
Benzo(a)pyrene	8270D	79.1	80.0	99	76.8	80.0	96	44-114	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/20/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2100232-04					Duplicate Lab Control Sample RQ2100232-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	63.7	80.0	80	64.7	80.0	81	62-115	1	30
Benzo(g,h,i)perylene	8270D	68.1	80.0	85	67.4	80.0	84	63-136	1	30
Benzo(k)fluoranthene	8270D	69.7	80.0	87	68.7	80.0	86	49-133	1	30
Biphenyl	8270D	55.3	80.0	69	55.9	80.0	70	39-106	1	30
2,2'-Oxybis(1-chloropropane)	8270D	43.3	80.0	54	53.0	80.0	66	32-122	20	30
Bis(2-chloroethoxy)methane	8270D	58.9	80.0	74	60.5	80.0	76	55-110	3	30
Bis(2-chloroethyl) Ether	8270D	47.3	80.0	59	53.2	80.0	67	46-102	13	30
Bis(2-ethylhexyl) Phthalate	8270D	64.4	80.0	81	62.6	80.0	78	51-132	4	30
Butyl Benzyl Phthalate	8270D	65.0	80.0	81	64.2	80.0	80	41-148	1	30
Caprolactam	8270D	19.2	80.0	24	19.8	80.0	25	10-41	4	30
Carbazole	8270D	76.8	80.0	96	80.3	80.0	100	56-139	4	30
Chrysene	8270D	67.0	80.0	84	65.1	80.0	81	57-118	4	30
Di-n-butyl Phthalate	8270D	79.0	80.0	99	79.3	80.0	99	57-128	<1	30
Di-n-octyl Phthalate	8270D	64.9	80.0	81	65.0	80.0	81	62-124	<1	30
Dibenz(a,h)anthracene	8270D	54.9	80.0	69	53.8	80.0	67	54-135	3	30
Dibenzofuran	8270D	58.4	80.0	73	59.9	80.0	75	55-110	3	30
Diethyl Phthalate	8270D	58.1	80.0	73	56.3	80.0	70	53-113	4	30
Dimethyl Phthalate	8270D	66.9	80.0	84	65.8	80.0	82	51-112	2	30
Fluoranthene	8270D	75.8	80.0	95	75.4	80.0	94	66-127	1	30
Fluorene	8270D	60.9	80.0	76	61.4	80.0	77	54-106	1	30
Hexachlorobenzene	8270D	71.8	80.0	90	72.2	80.0	90	53-123	<1	30
Hexachlorobutadiene	8270D	36.4	80.0	46	43.0	80.0	54	16-95	16	30
Hexachlorocyclopentadiene	8270D	25.4	80.0	32	29.2	80.0	36	10-99	12	30
Hexachloroethane	8270D	25.0	80.0	31	33.5	80.0	42	15-92	30	30
Indeno(1,2,3-cd)pyrene	8270D	65.5	80.0	82	63.5	80.0	79	62-137	4	30
Isophorone	8270D	53.2	80.0	66	55.0	80.0	69	50-116	4	30
N-Nitrosodi-n-propylamine	8270D	53.3	80.0	67	54.3	80.0	68	49-115	1	30
N-Nitrosodiphenylamine	8270D	75.9	80.0	95	77.3	80.0	97	45-123	2	30
Naphthalene	8270D	40.3	80.0	50	50.0	80.0	63	38-99	23	30
Nitrobenzene	8270D	46.2	80.0	58	51.6	80.0	65	46-108	11	30
Pentachlorophenol (PCP)	8270D	75.5	80.0	94	73.2	80.0	91	29-164	3	30
Phenanthrene	8270D	66.3	80.0	83	64.9	80.0	81	58-118	2	30
Phenol	8270D	21.3	80.0	27	23.6	80.0	30	10-113	11	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/20/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec	% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount				
Pyrene	8270D	68.4	80.0	86	67.0	80.0	84	61-122	2	30



Semivolatile Organic Compounds by GC

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)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
401075-MW-19	R2100082-002	63	67
Method Blank	RQ2100131-01	65	57
Lab Control Sample	RQ2100131-02	65	61
Duplicate Lab Control Sample	RQ2100131-03	60	60

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100131-01

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
4,4'-DDE	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
4,4'-DDT	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Aldrin	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Dieldrin	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Endosulfan I	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Endosulfan II	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Endosulfan Sulfate	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Endrin	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Endrin Aldehyde	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Endrin Ketone	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Heptachlor	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Heptachlor Epoxide	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Methoxychlor	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
Toxaphene	0.50 U	0.50	0.50	1	01/14/21 06:40	1/7/21	
alpha-BHC	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
alpha-Chlordane	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
beta-BHC	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
delta-BHC	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
gamma-BHC (Lindane)	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	
gamma-Chlordane	0.020 U	0.050	0.020	1	01/14/21 06:40	1/7/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	10 - 164	01/14/21 06:40	
Tetrachloro-m-xylene	57	10 - 147	01/14/21 06:40	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/14/21

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample RQ2100131-02					Duplicate Lab Control Sample RQ2100131-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	0.293	0.400	73	0.293	0.400	73	42-159	<1	30
4,4'-DDE	8081B	0.281	0.400	70	0.283	0.400	71	47-147	<1	30
4,4'-DDT	8081B	0.301	0.400	75	0.292	0.400	73	41-149	3	30
Aldrin	8081B	0.232	0.400	58	0.238	0.400	60	22-137	3	30
Dieldrin	8081B	0.306	0.400	76	0.306	0.400	76	52-144	<1	30
Endosulfan I	8081B	0.288	0.400	72	0.289	0.400	72	52-136	<1	30
Endosulfan II	8081B	0.303	0.400	76	0.300	0.400	75	57-138	<1	30
Endosulfan Sulfate	8081B	0.300	0.400	75	0.295	0.400	74	34-156	2	30
Endrin	8081B	0.300	0.400	75	0.298	0.400	74	56-143	<1	30
Endrin Aldehyde	8081B	0.132	0.400	33	0.128	0.400	32	10-166	3	30
Endrin Ketone	8081B	0.314	0.400	79	0.318	0.400	79	59-143	1	30
Heptachlor	8081B	0.252	0.400	63	0.268	0.400	67	32-141	6	30
Heptachlor Epoxide	8081B	0.327	0.400	82	0.328	0.400	82	51-143	<1	30
Methoxychlor	8081B	0.317	0.400	79	0.310	0.400	77	56-149	2	30
alpha-BHC	8081B	0.298	0.400	74	0.298	0.400	74	36-151	<1	30
alpha-Chlordane	8081B	0.272	0.400	68	0.277	0.400	69	50-139	2	30
beta-BHC	8081B	0.315	0.400	79	0.319	0.400	80	55-149	2	30
delta-BHC	8081B	0.314	0.400	78	0.309	0.400	77	29-159	2	30
gamma-BHC (Lindane)	8081B	0.350	0.400	87	0.305	0.400	76	41-149	14	30
gamma-Chlordane	8081B	0.274	0.400	69	0.282	0.400	70	50-140	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
401075-MW-19	R2100082-002	66	57
Method Blank	RQ2100131-01	80	55
Lab Control Sample	RQ2100131-02	62	53
Duplicate Lab Control Sample	RQ2100131-03	62	59

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100131-01

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	1.0	0.50	1	01/12/21 20:25	1/7/21	
Aroclor 1221	1.0 U	2.0	1.0	1	01/12/21 20:25	1/7/21	
Aroclor 1232	0.50 U	1.0	0.50	1	01/12/21 20:25	1/7/21	
Aroclor 1242	0.50 U	1.0	0.50	1	01/12/21 20:25	1/7/21	
Aroclor 1248	0.58 J	1.0	0.50	1	01/12/21 20:25	1/7/21	
Aroclor 1254	0.50 U	1.0	0.50	1	01/12/21 20:25	1/7/21	
Aroclor 1260	0.50 U	1.0	0.50	1	01/12/21 20:25	1/7/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	80	10 - 152	01/12/21 20:25	
Tetrachloro-m-xylene	55	14 - 129	01/12/21 20:25	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/12/21

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample RQ2100131-02					Duplicate Lab Control Sample RQ2100131-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	6.12	4.00	153 *	3.87	4.00	97	49-123	45*	30
Aroclor 1260	8082A	3.11	4.00	78	3.27	4.00	82	30-120	5	30



Metals

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

METALS

-3-

BLANKS

Contract: R2100082

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 401075-MW-19

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Aluminum	23.00 U	23.00	U	23.00	U	23.00	U	23.000	U	P
Antimony	4.70 U	4.70	U	4.70	U	4.70	U	4.700	U	P
Arsenic	5.50 U	5.50	U	5.50	U	5.50	U	5.500	U	P
Barium	3.00 U	3.00	U	3.00	U	3.00	U	3.000	U	P
Beryllium	0.13 U	0.13	U	0.13	U	0.13	U	0.130	U	P
Cadmium	0.35 U	0.35	U	0.35	U	0.35	U	0.350	U	P
Mercury	0.077 U	0.077	U	0.077	U	0.077	U	0.077	U	CV
Calcium	220.00 U	220.00	U	220.00	U	220.00	U	220.000	U	P
Chromium	0.59 U	0.59	U	0.59	U	0.59	U	0.590	U	P
Cobalt	0.89 U	0.89	U	0.89	U	0.89	U	0.890	U	P
Copper	3.90 U	3.90	U	3.90	U	3.90	U	3.900	U	P
Iron	61.00 U	61.00	U	61.00	U	61.00	U	61.000	U	P
Lead	2.10 U	2.10	U	2.10	U	2.10	U	2.100	U	P
Magnesium	29.00 U	29.00	U	29.00	U	29.00	U	29.000	U	P
Manganese	3.70 U	3.70	U	3.70	U	3.70	U	3.700	U	P
Nickel	2.60 U	2.60	U	2.60	U	2.60	U	2.600	U	P
Potassium	200.00 U	200.00	U	200.00	U	200.00	U	200.000	U	P
Selenium	6.40 U	6.40	U	6.40	U	6.40	U	6.400	U	P
Silver	0.57 U	0.57	U	0.57	U	0.57	U	0.570	U	P
Sodium	130.00 U	130.00	U	130.00	U	147.40	J	130.000	U	P
Thallium	6.60 U	6.60	U	6.60	U	6.60	U	6.600	U	P
Vanadium	0.67 U	0.67	U	0.67	U	0.67	U	0.670	U	P
Zinc	9.40 U	9.40	U	9.40	U	9.40	U	9.400	U	P

Comments:

METALS

-3-

BLANKS

Contract: R2100082

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 401075-MW-19

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			23.00	U	23.00	U	23.00	U			P
Antimony			4.70	U	4.70	U	4.70	U			P
Arsenic			5.50	U	5.50	U	5.50	U			P
Barium			3.00	U	3.00	U	3.00	U			P
Beryllium			0.13	U	0.13	U	0.13	U			P
Cadmium			0.35	U	0.35	U	0.35	U			P
Mercury			0.077	U							CV
Calcium			220.00	U	220.00	U	220.00	U			P
Chromium			0.59	U	0.59	U	0.59	U			P
Cobalt			0.89	U	0.89	U	0.89	U			P
Copper			3.90	U	3.90	U	3.90	U			P
Iron			61.00	U	61.00	U	61.00	U			P
Lead			2.10	U	2.10	U	2.10	U			P
Magnesium			29.00	U	29.00	U	29.00	U			P
Manganese			3.70	U	3.70	U	3.70	U			P
Nickel			2.60	U	2.60	U	2.60	U			P
Potassium			200.00	U	200.00	U	200.00	U			P
Selenium			6.40	U	6.40	U	6.40	U			P
Silver			0.57	U	0.57	U	0.57	U			P
Sodium			130.00	U	130.00	U	130.00	U			P
Thallium			6.60	U	6.60	U	6.60	U			P
Vanadium			0.67	U	0.67	U	0.67	U			P
Zinc			9.40	U	9.40	U	9.40	U			P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: **R2100082**

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: **401075-MW-19**

Solid LCS Source: _____

Aqueous LCS Source: **CPI**

Analyte	Aqueous (ug/L			Solid (mg/K					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	2000	1960	98						
Antimony	500	483	97						
Arsenic	40	39	98						
Barium	2000	2020	101						
Beryllium	50	50	100						
Cadmium	50	50	100						
Mercury	1.000	0.986	99						
Calcium	2000	2030	102						
Chromium	200	197	98						
Cobalt	500	500	100						
Copper	250	245	98						
Iron	1000	988	99						
Lead	500	496	99						
Magnesium	2000	1920	96						
Manganese	500	479	96						
Nickel	500	498	100						
Potassium	20000	19300	96						
Selenium	1010	958	95						
Silver	50	48	96						
Sodium	20000	19900	100						
Thallium	2000	1880	94						
Vanadium	500	499	100						
Zinc	500	493	99						

Comments: _____



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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2100082-MB

Service Request: R2100082
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	1.8 U	mg/L	2.0	1.8	1	01/10/21 04:21	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	0.5 U	mg/L	1.0	0.5	1	01/14/21 18:18	
Nitrate as Nitrogen	9056A	0.02 U	mg/L	0.10	0.02	1	01/06/21 17:56	
Nitrite as Nitrogen	9056A	0.02 U	mg/L	0.10	0.02	1	01/06/21 17:56	
Sulfate	9056A	0.04 U	mg/L	0.20	0.04	1	01/08/21 17:08	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Collected: 01/05/21
Date Received: 01/06/21
Date Analyzed: 01/8/21

Duplicate Matrix Spike Summary
Sulfate

Sample Name: 401075-MW-7R
Lab Code: R2100082-001
Analysis Method: 9056A

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R2100082-001MS		Result	Duplicate Matrix Spike R2100082-001DMS		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Sulfate	145	183	40.0	95	181	40.0	88	80-120	1	15

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/002
Sample Matrix: Water

Service Request: R2100082
Date Analyzed: 01/06/21 - 01/14/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2100082-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	20.8	20.0	104	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.13	10.0	91	80-121
Nitrate as Nitrogen	9056A	0.976	1.00	98	80-120
Nitrite as Nitrogen	9056A	0.995	1.00	100	80-120
Sulfate	9056A	2.01	2.00	101	80-120



January 27, 2021

Service Request No:R2100149

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 January 07, 2021
For your reference, these analyses have been assigned our service request number **R2100149**.

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



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



Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners
Sample Matrix: Water

Service Request: R2100149
Date Received: 01/07/2021

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:

Six water samples were received for analysis at ALS Environmental on 01/07/2021. 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, 01/13/2021: 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 8270D, 01/13/2021: 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 8270D, 01/13/2021: The RPD between the MS and the MSD was greater than the RPD limit. The percent recovery limit was met for both the MS and the MSD.

Semivolatile GC:

Method 8081B, 01/14/2021: 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 8082A, 01/14/2021: 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 8082A, 01/14/2021: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 01/15/2021: 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

Approved by _____

Date 01/27/2021



appropriate.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 01/27/2021



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)
Project: Admiral Cleaners/1602504/0002

Service Request:R2100149

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2100149-001	401075-MW-20	1/6/2021	0910
R2100149-002	401075-MW-18	1/6/2021	1123
R2100149-003	401075-MW-02	1/6/2021	1325
R2100149-004	401075-MW-09	1/6/2021	1450
R2100149-005	401075-DUP-010621	1/6/2021	
R2100149-006	401075-TB-12222020	1/6/2021	1310



Cooler Receipt and Preservation Check Form

R2100149

5

EA Engineering, Science, and Technology
Admiral Cleaners



Project/Client EA Folder Number _____

Cooler received on 1/7/21 by: @ COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 1/7/21 Time: 0908 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.2</u>						
Within 0-6°C?	<u>(Y)</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	<u>(Y)</u> 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 @ on 1/7/21 at 0910
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 1/7/21 Time: 1428 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
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?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>223419</u>	HNO ₃	<u>✓</u>		<u>Client found</u>					
≤2		H ₂ SO ₄	<u>✓</u>							
<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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O 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: 91120-03 Client found
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.	+	Correlation coefficient for MSA is <0.995.
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/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
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.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	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 Certifications¹

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 laboratory's 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.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002

Service Request: R2100149

Sample Name: 401075-MW-20
Lab Code: R2100149-001
Sample Matrix: Water

Date Collected: 01/6/21
Date Received: 01/7/21

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: 401075-MW-18
Lab Code: R2100149-002
Sample Matrix: Water

Date Collected: 01/6/21
Date Received: 01/7/21

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: 401075-MW-02
Lab Code: R2100149-003
Sample Matrix: Water

Date Collected: 01/6/21
Date Received: 01/7/21

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002

Service Request: R2100149

Sample Name: 401075-MW-09
Lab Code: R2100149-004
Sample Matrix: Water

Date Collected: 01/6/21
Date Received: 01/7/21

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
9056A		KWONG
RSK 175		FNAEGLER
SM 2320 B-1997(2011)		KWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: 401075-DUP-010621
Lab Code: R2100149-005
Sample Matrix: Water

Date Collected: 01/6/21
Date Received: 01/7/21

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: 401075-TB-12222020
Lab Code: R2100149-006
Sample Matrix: Water

Date Collected: 01/6/21
Date Received: 01/7/21

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

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 09:10
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-20
Lab Code: R2100149-001

Units: ug/L
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)	1.0 U	25	1.0	5	01/19/21 20:26	
1,1,2,2-Tetrachloroethane	1.0 U	25	1.0	5	01/19/21 20:26	
1,1,2-Trichloroethane	1.0 U	25	1.0	5	01/19/21 20:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	25	1.0	5	01/19/21 20:26	
1,1-Dichloroethane (1,1-DCA)	1.0 U	25	1.0	5	01/19/21 20:26	
1,1-Dichloroethene (1,1-DCE)	1.2 J	25	1.0	5	01/19/21 20:26	
1,2,4-Trichlorobenzene	1.7 U	25	1.7	5	01/19/21 20:26	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	25	2.3	5	01/19/21 20:26	
1,2-Dibromoethane	1.0 U	25	1.0	5	01/19/21 20:26	
1,2-Dichlorobenzene	1.0 U	25	1.0	5	01/19/21 20:26	
1,2-Dichloroethane	1.0 U	25	1.0	5	01/19/21 20:26	
1,2-Dichloropropane	1.0 U	25	1.0	5	01/19/21 20:26	
1,3-Dichlorobenzene	1.0 U	25	1.0	5	01/19/21 20:26	
1,4-Dichlorobenzene	1.0 U	25	1.0	5	01/19/21 20:26	
2-Butanone (MEK)	3.9 U	50	3.9	5	01/19/21 20:26	
2-Hexanone	1.0 U	50	1.0	5	01/19/21 20:26	
4-Methyl-2-pentanone	1.0 U	50	1.0	5	01/19/21 20:26	
Acetone	25 U	50	25	5	01/19/21 20:26	
Benzene	1.0 U	25	1.0	5	01/19/21 20:26	
Bromodichloromethane	1.0 U	25	1.0	5	01/19/21 20:26	
Bromoform	1.3 U	25	1.3	5	01/19/21 20:26	
Bromomethane	3.5 U	25	3.5	5	01/19/21 20:26	
Carbon Disulfide	2.1 U	50	2.1	5	01/19/21 20:26	
Carbon Tetrachloride	1.7 U	25	1.7	5	01/19/21 20:26	
Chlorobenzene	1.0 U	25	1.0	5	01/19/21 20:26	
Chloroethane	1.2 U	25	1.2	5	01/19/21 20:26	
Chloroform	1.4 J	25	1.2	5	01/19/21 20:26	
Chloromethane	1.4 U	25	1.4	5	01/19/21 20:26	
Cyclohexane	1.3 U	50	1.3	5	01/19/21 20:26	
Dibromochloromethane	1.0 U	25	1.0	5	01/19/21 20:26	
Dichlorodifluoromethane (CFC 12)	1.1 U	25	1.1	5	01/19/21 20:26	
Dichloromethane	3.3 U	25	3.3	5	01/19/21 20:26	
Ethylbenzene	1.0 U	25	1.0	5	01/19/21 20:26	
Isopropylbenzene (Cumene)	1.0 U	25	1.0	5	01/19/21 20:26	
Methyl Acetate	1.7 U	50	1.7	5	01/19/21 20:26	
Methyl tert-Butyl Ether	1.0 U	25	1.0	5	01/19/21 20:26	
Methylcyclohexane	1.0 U	50	1.0	5	01/19/21 20:26	
Styrene	1.0 U	25	1.0	5	01/19/21 20:26	
Tetrachloroethene (PCE)	360	25	1.1	5	01/19/21 20:26	
Toluene	1.0 U	25	1.0	5	01/19/21 20:26	
Trichloroethene (TCE)	150	25	1.0	5	01/19/21 20:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 09:10
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-20
Lab Code: R2100149-001

Units: ug/L
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)	1.2 U	25	1.2	5	01/19/21 20:26	
Vinyl Chloride	1.7 J	25	1.0	5	01/19/21 20:26	
Xylenes, Total	1.2 U	25	1.2	5	01/19/21 20:26	
cis-1,2-Dichloroethene	490	25	1.2	5	01/19/21 20:26	
cis-1,3-Dichloropropene	1.0 U	25	1.0	5	01/19/21 20:26	
trans-1,2-Dichloroethene	1.0 J	25	1.0	5	01/19/21 20:26	
trans-1,3-Dichloropropene	1.2 U	25	1.2	5	01/19/21 20:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	01/19/21 20:26	
Dibromofluoromethane	97	80 - 116	01/19/21 20:26	
Toluene-d8	100	87 - 121	01/19/21 20:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 11:23
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-18
Lab Code: R2100149-002

Units: ug/L
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)	4.0 U	100	4.0	20	01/15/21 19:30	
1,1,2,2-Tetrachloroethane	4.0 U	100	4.0	20	01/15/21 19:30	
1,1,2-Trichloroethane	4.0 U	100	4.0	20	01/15/21 19:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0 U	100	4.0	20	01/15/21 19:30	
1,1-Dichloroethane (1,1-DCA)	4.0 U	100	4.0	20	01/15/21 19:30	
1,1-Dichloroethene (1,1-DCE)	5.7 J	100	4.0	20	01/15/21 19:30	
1,2,4-Trichlorobenzene	6.8 U	100	6.8	20	01/15/21 19:30	
1,2-Dibromo-3-chloropropane (DBCP)	9.0 U	100	9.0	20	01/15/21 19:30	
1,2-Dibromoethane	4.0 U	100	4.0	20	01/15/21 19:30	
1,2-Dichlorobenzene	4.0 U	100	4.0	20	01/15/21 19:30	
1,2-Dichloroethane	4.0 U	100	4.0	20	01/15/21 19:30	
1,2-Dichloropropane	4.0 U	100	4.0	20	01/15/21 19:30	
1,3-Dichlorobenzene	4.0 U	100	4.0	20	01/15/21 19:30	
1,4-Dichlorobenzene	4.0 U	100	4.0	20	01/15/21 19:30	
2-Butanone (MEK)	16 U	200	16	20	01/15/21 19:30	
2-Hexanone	4.0 U	200	4.0	20	01/15/21 19:30	
4-Methyl-2-pentanone	4.0 U	200	4.0	20	01/15/21 19:30	
Acetone	100 U	200	100	20	01/15/21 19:30	
Benzene	4.0 U	100	4.0	20	01/15/21 19:30	
Bromodichloromethane	4.0 U	100	4.0	20	01/15/21 19:30	
Bromoform	5.0 U	100	5.0	20	01/15/21 19:30	
Bromomethane	14 U	100	14	20	01/15/21 19:30	
Carbon Disulfide	8.4 U	200	8.4	20	01/15/21 19:30	
Carbon Tetrachloride	6.8 U	100	6.8	20	01/15/21 19:30	
Chlorobenzene	4.0 U	100	4.0	20	01/15/21 19:30	
Chloroethane	4.6 U	100	4.6	20	01/15/21 19:30	
Chloroform	4.8 U	100	4.8	20	01/15/21 19:30	
Chloromethane	5.6 U	100	5.6	20	01/15/21 19:30	
Cyclohexane	5.2 U	200	5.2	20	01/15/21 19:30	
Dibromochloromethane	4.0 U	100	4.0	20	01/15/21 19:30	
Dichlorodifluoromethane (CFC 12)	4.2 U	100	4.2	20	01/15/21 19:30	
Dichloromethane	13 U	100	13	20	01/15/21 19:30	
Ethylbenzene	4.0 U	100	4.0	20	01/15/21 19:30	
Isopropylbenzene (Cumene)	4.0 U	100	4.0	20	01/15/21 19:30	
Methyl Acetate	6.6 U	200	6.6	20	01/15/21 19:30	
Methyl tert-Butyl Ether	4.0 U	100	4.0	20	01/15/21 19:30	
Methylcyclohexane	4.0 U	200	4.0	20	01/15/21 19:30	
Styrene	4.0 U	100	4.0	20	01/15/21 19:30	
Tetrachloroethene (PCE)	75 J	100	4.2	20	01/15/21 19:30	
Toluene	4.0 U	100	4.0	20	01/15/21 19:30	
Trichloroethene (TCE)	51 J	100	4.0	20	01/15/21 19:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 11:23
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-18
Lab Code: R2100149-002

Units: ug/L
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)	4.8 U	100	4.8	20	01/15/21 19:30	
Vinyl Chloride	14 J	100	4.0	20	01/15/21 19:30	
Xylenes, Total	4.6 U	100	4.6	20	01/15/21 19:30	
cis-1,2-Dichloroethene	3600	100	4.6	20	01/15/21 19:30	
cis-1,3-Dichloropropene	4.0 U	100	4.0	20	01/15/21 19:30	
trans-1,2-Dichloroethene	7.2 J	100	4.0	20	01/15/21 19:30	
trans-1,3-Dichloropropene	4.6 U	100	4.6	20	01/15/21 19:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/15/21 19:30	
Dibromofluoromethane	100	80 - 116	01/15/21 19:30	
Toluene-d8	99	87 - 121	01/15/21 19:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 13:25
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-02
Lab Code: R2100149-003

Units: ug/L
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	01/15/21 18:46	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/15/21 18:46	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/15/21 18:46	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 18:46	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 18:46	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/15/21 18:46	
2-Hexanone	0.20 U	10	0.20	1	01/15/21 18:46	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/15/21 18:46	
Acetone	5.0 U	10	5.0	1	01/15/21 18:46	
Benzene	0.20 U	5.0	0.20	1	01/15/21 18:46	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/15/21 18:46	
Bromoform	0.25 U	5.0	0.25	1	01/15/21 18:46	
Bromomethane	0.70 U	5.0	0.70	1	01/15/21 18:46	
Carbon Disulfide	0.42 U	10	0.42	1	01/15/21 18:46	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/15/21 18:46	
Chlorobenzene	0.20 U	5.0	0.20	1	01/15/21 18:46	
Chloroethane	0.23 U	5.0	0.23	1	01/15/21 18:46	
Chloroform	0.24 U	5.0	0.24	1	01/15/21 18:46	
Chloromethane	0.28 U	5.0	0.28	1	01/15/21 18:46	
Cyclohexane	0.26 U	10	0.26	1	01/15/21 18:46	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/15/21 18:46	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/15/21 18:46	
Dichloromethane	0.65 U	5.0	0.65	1	01/15/21 18:46	
Ethylbenzene	0.20 U	5.0	0.20	1	01/15/21 18:46	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/15/21 18:46	
Methyl Acetate	0.33 U	10	0.33	1	01/15/21 18:46	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/15/21 18:46	
Methylcyclohexane	0.20 U	10	0.20	1	01/15/21 18:46	
Styrene	0.20 U	5.0	0.20	1	01/15/21 18:46	
Tetrachloroethene (PCE)	75	5.0	0.21	1	01/15/21 18:46	
Toluene	0.20 U	5.0	0.20	1	01/15/21 18:46	
Trichloroethene (TCE)	4.1 J	5.0	0.20	1	01/15/21 18:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 13:25
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-02
Lab Code: R2100149-003

Units: ug/L
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	01/15/21 18:46	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/15/21 18:46	
Xylenes, Total	0.23 U	5.0	0.23	1	01/15/21 18:46	
cis-1,2-Dichloroethene	5.0 J	5.0	0.23	1	01/15/21 18:46	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/15/21 18:46	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/15/21 18:46	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/15/21 18:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/15/21 18:46	
Dibromofluoromethane	101	80 - 116	01/15/21 18:46	
Toluene-d8	102	87 - 121	01/15/21 18:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 14:50
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-09
Lab Code: R2100149-004

Units: ug/L
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	01/15/21 19:08	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/15/21 19:08	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/15/21 19:08	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 19:08	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 19:08	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/15/21 19:08	
2-Hexanone	0.20 U	10	0.20	1	01/15/21 19:08	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/15/21 19:08	
Acetone	5.0 U	10	5.0	1	01/15/21 19:08	
Benzene	0.20 U	5.0	0.20	1	01/15/21 19:08	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/15/21 19:08	
Bromoform	0.25 U	5.0	0.25	1	01/15/21 19:08	
Bromomethane	0.70 U	5.0	0.70	1	01/15/21 19:08	
Carbon Disulfide	0.42 U	10	0.42	1	01/15/21 19:08	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/15/21 19:08	
Chlorobenzene	0.20 U	5.0	0.20	1	01/15/21 19:08	
Chloroethane	0.23 U	5.0	0.23	1	01/15/21 19:08	
Chloroform	0.24 U	5.0	0.24	1	01/15/21 19:08	
Chloromethane	0.28 U	5.0	0.28	1	01/15/21 19:08	
Cyclohexane	0.26 U	10	0.26	1	01/15/21 19:08	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/15/21 19:08	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/15/21 19:08	
Dichloromethane	0.65 U	5.0	0.65	1	01/15/21 19:08	
Ethylbenzene	0.20 U	5.0	0.20	1	01/15/21 19:08	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/15/21 19:08	
Methyl Acetate	0.33 U	10	0.33	1	01/15/21 19:08	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/15/21 19:08	
Methylcyclohexane	0.20 U	10	0.20	1	01/15/21 19:08	
Styrene	0.20 U	5.0	0.20	1	01/15/21 19:08	
Tetrachloroethene (PCE)	38	5.0	0.21	1	01/15/21 19:08	
Toluene	0.20 U	5.0	0.20	1	01/15/21 19:08	
Trichloroethene (TCE)	3.7 J	5.0	0.20	1	01/15/21 19:08	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 14:50
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-09
Lab Code: R2100149-004

Units: ug/L
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	01/15/21 19:08	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/15/21 19:08	
Xylenes, Total	0.23 U	5.0	0.23	1	01/15/21 19:08	
cis-1,2-Dichloroethene	45	5.0	0.23	1	01/15/21 19:08	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/15/21 19:08	
trans-1,2-Dichloroethene	1.0 J	5.0	0.20	1	01/15/21 19:08	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/15/21 19:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/15/21 19:08	
Dibromofluoromethane	102	80 - 116	01/15/21 19:08	
Toluene-d8	102	87 - 121	01/15/21 19:08	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21 08:15

Sample Name: 401075-DUP-010621
Lab Code: R2100149-005

Units: ug/L
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)	4.0 U	100	4.0	20	01/15/21 19:52	
1,1,2,2-Tetrachloroethane	4.0 U	100	4.0	20	01/15/21 19:52	
1,1,2-Trichloroethane	4.0 U	100	4.0	20	01/15/21 19:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0 U	100	4.0	20	01/15/21 19:52	
1,1-Dichloroethane (1,1-DCA)	4.0 U	100	4.0	20	01/15/21 19:52	
1,1-Dichloroethene (1,1-DCE)	6.2 J	100	4.0	20	01/15/21 19:52	
1,2,4-Trichlorobenzene	6.8 U	100	6.8	20	01/15/21 19:52	
1,2-Dibromo-3-chloropropane (DBCP)	9.0 U	100	9.0	20	01/15/21 19:52	
1,2-Dibromoethane	4.0 U	100	4.0	20	01/15/21 19:52	
1,2-Dichlorobenzene	4.0 U	100	4.0	20	01/15/21 19:52	
1,2-Dichloroethane	4.0 U	100	4.0	20	01/15/21 19:52	
1,2-Dichloropropane	4.0 U	100	4.0	20	01/15/21 19:52	
1,3-Dichlorobenzene	4.0 U	100	4.0	20	01/15/21 19:52	
1,4-Dichlorobenzene	4.0 U	100	4.0	20	01/15/21 19:52	
2-Butanone (MEK)	16 U	200	16	20	01/15/21 19:52	
2-Hexanone	4.0 U	200	4.0	20	01/15/21 19:52	
4-Methyl-2-pentanone	4.0 U	200	4.0	20	01/15/21 19:52	
Acetone	100 U	200	100	20	01/15/21 19:52	
Benzene	4.0 U	100	4.0	20	01/15/21 19:52	
Bromodichloromethane	4.0 U	100	4.0	20	01/15/21 19:52	
Bromoform	5.0 U	100	5.0	20	01/15/21 19:52	
Bromomethane	14 U	100	14	20	01/15/21 19:52	
Carbon Disulfide	8.4 U	200	8.4	20	01/15/21 19:52	
Carbon Tetrachloride	6.8 U	100	6.8	20	01/15/21 19:52	
Chlorobenzene	4.0 U	100	4.0	20	01/15/21 19:52	
Chloroethane	4.6 U	100	4.6	20	01/15/21 19:52	
Chloroform	6.1 J	100	4.8	20	01/15/21 19:52	
Chloromethane	5.6 U	100	5.6	20	01/15/21 19:52	
Cyclohexane	5.2 U	200	5.2	20	01/15/21 19:52	
Dibromochloromethane	4.0 U	100	4.0	20	01/15/21 19:52	
Dichlorodifluoromethane (CFC 12)	4.2 U	100	4.2	20	01/15/21 19:52	
Dichloromethane	13 U	100	13	20	01/15/21 19:52	
Ethylbenzene	4.0 U	100	4.0	20	01/15/21 19:52	
Isopropylbenzene (Cumene)	4.0 U	100	4.0	20	01/15/21 19:52	
Methyl Acetate	6.6 U	200	6.6	20	01/15/21 19:52	
Methyl tert-Butyl Ether	4.0 U	100	4.0	20	01/15/21 19:52	
Methylcyclohexane	4.0 U	200	4.0	20	01/15/21 19:52	
Styrene	4.0 U	100	4.0	20	01/15/21 19:52	
Tetrachloroethene (PCE)	72 J	100	4.2	20	01/15/21 19:52	
Toluene	4.0 U	100	4.0	20	01/15/21 19:52	
Trichloroethene (TCE)	54 J	100	4.0	20	01/15/21 19:52	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21 08:15

Sample Name: 401075-DUP-010621
Lab Code: R2100149-005

Units: ug/L
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)	4.8 U	100	4.8	20	01/15/21 19:52	
Vinyl Chloride	15 J	100	4.0	20	01/15/21 19:52	
Xylenes, Total	4.6 U	100	4.6	20	01/15/21 19:52	
cis-1,2-Dichloroethene	3400	100	4.6	20	01/15/21 19:52	
cis-1,3-Dichloropropene	4.0 U	100	4.0	20	01/15/21 19:52	
trans-1,2-Dichloroethene	7.7 J	100	4.0	20	01/15/21 19:52	
trans-1,3-Dichloropropene	4.6 U	100	4.6	20	01/15/21 19:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/15/21 19:52	
Dibromofluoromethane	101	80 - 116	01/15/21 19:52	
Toluene-d8	102	87 - 121	01/15/21 19:52	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 13:10
Date Received: 01/07/21 08:15

Sample Name: 401075-TB-12222020
Lab Code: R2100149-006

Units: ug/L
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	01/15/21 12:56	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/15/21 12:56	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/15/21 12:56	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 12:56	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 12:56	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/15/21 12:56	
2-Hexanone	0.20 U	10	0.20	1	01/15/21 12:56	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/15/21 12:56	
Acetone	5.0 U	10	5.0	1	01/15/21 12:56	
Benzene	0.20 U	5.0	0.20	1	01/15/21 12:56	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/15/21 12:56	
Bromoform	0.25 U	5.0	0.25	1	01/15/21 12:56	
Bromomethane	0.70 U	5.0	0.70	1	01/15/21 12:56	
Carbon Disulfide	0.42 U	10	0.42	1	01/15/21 12:56	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/15/21 12:56	
Chlorobenzene	0.20 U	5.0	0.20	1	01/15/21 12:56	
Chloroethane	0.23 U	5.0	0.23	1	01/15/21 12:56	
Chloroform	0.24 U	5.0	0.24	1	01/15/21 12:56	
Chloromethane	0.28 U	5.0	0.28	1	01/15/21 12:56	
Cyclohexane	0.26 U	10	0.26	1	01/15/21 12:56	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/15/21 12:56	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/15/21 12:56	
Dichloromethane	0.65 U	5.0	0.65	1	01/15/21 12:56	
Ethylbenzene	0.20 U	5.0	0.20	1	01/15/21 12:56	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/15/21 12:56	
Methyl Acetate	0.33 U	10	0.33	1	01/15/21 12:56	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/15/21 12:56	
Methylcyclohexane	0.20 U	10	0.20	1	01/15/21 12:56	
Styrene	0.20 U	5.0	0.20	1	01/15/21 12:56	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/15/21 12:56	
Toluene	0.20 U	5.0	0.20	1	01/15/21 12:56	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/15/21 12:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 13:10
Date Received: 01/07/21 08:15

Sample Name: 401075-TB-12222020
Lab Code: R2100149-006

Units: ug/L
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	01/15/21 12:56	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/15/21 12:56	
Xylenes, Total	0.23 U	5.0	0.23	1	01/15/21 12:56	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/15/21 12:56	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/15/21 12:56	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/15/21 12:56	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/15/21 12:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	01/15/21 12:56	
Dibromofluoromethane	102	80 - 116	01/15/21 12:56	
Toluene-d8	100	87 - 121	01/15/21 12:56	



Volatile Organic Compounds by GC

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 14:50
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-09
Lab Code: R2100149-004

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	0.17 U	1.0	0.17	1	01/14/21 12:06	
Ethylene	0.35 U	1.0	0.35	1	01/14/21 12:06	
Methane	0.75 U	1.1	0.75	1	01/14/21 12:06	
Propane	0.28 U	1.0	0.28	1	01/14/21 12:06	



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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 09:10
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-20
Lab Code: R2100149-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
2,3,4,6-Tetrachlorophenol	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
2,4,5-Trichlorophenol	0.99 U	9.1	0.99	1	01/13/21 16:20	1/11/21	
2,4,6-Trichlorophenol	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
2,4-Dichlorophenol	1.2 U	9.1	1.2	1	01/13/21 16:20	1/11/21	
2,4-Dimethylphenol	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
2,4-Dinitrophenol	19 U	45	19	1	01/13/21 16:20	1/11/21	
2,4-Dinitrotoluene	2.2 U	9.1	2.2	1	01/13/21 16:20	1/11/21	
2,6-Dinitrotoluene	1.2 U	9.1	1.2	1	01/13/21 16:20	1/11/21	
2-Chloronaphthalene	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
2-Chlorophenol	0.97 U	9.1	0.97	1	01/13/21 16:20	1/11/21	
2-Methylnaphthalene	1.2 U	9.1	1.2	1	01/13/21 16:20	1/11/21	
2-Methylphenol	0.91 U	9.1	0.91	1	01/13/21 16:20	1/11/21	
2-Nitroaniline	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
2-Nitrophenol	1.4 U	9.1	1.4	1	01/13/21 16:20	1/11/21	
3,3'-Dichlorobenzidine	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
3- and 4-Methylphenol Coelution	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
3-Nitroaniline	2.3 U	9.1	2.3	1	01/13/21 16:20	1/11/21	
4,6-Dinitro-2-methylphenol	18 U	45	18	1	01/13/21 16:20	1/11/21	
4-Bromophenyl Phenyl Ether	1.5 U	9.1	1.5	1	01/13/21 16:20	1/11/21	
4-Chloro-3-methylphenol	0.98 U	9.1	0.98	1	01/13/21 16:20	1/11/21	
4-Chloroaniline	0.91 U	9.1	0.91	1	01/13/21 16:20	1/11/21	
4-Chlorophenyl Phenyl Ether	1.4 U	9.1	1.4	1	01/13/21 16:20	1/11/21	
4-Nitroaniline	2.5 U	9.1	2.5	1	01/13/21 16:20	1/11/21	
4-Nitrophenol	5.8 U	45	5.8	1	01/13/21 16:20	1/11/21	
Acenaphthene	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
Acenaphthylene	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
Acetophenone	1.2 U	9.1	1.2	1	01/13/21 16:20	1/11/21	
Anthracene	1.2 U	9.1	1.2	1	01/13/21 16:20	1/11/21	
Atrazine	1.9 U	9.1	1.9	1	01/13/21 16:20	1/11/21	
Benz(a)anthracene	1.5 U	9.1	1.5	1	01/13/21 16:20	1/11/21	
Benzaldehyde	3.4 U	9.1	3.4	1	01/13/21 16:20	1/11/21	
Benzo(a)pyrene	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
Benzo(b)fluoranthene	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
Benzo(g,h,i)perylene	0.91 U	9.1	0.91	1	01/13/21 16:20	1/11/21	
Benzo(k)fluoranthene	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
Biphenyl	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
2,2'-Oxybis(1-chloropropane)	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
Bis(2-chloroethoxy)methane	1.8 U	9.1	1.8	1	01/13/21 16:20	1/11/21	
Bis(2-chloroethyl) Ether	1.2 U	9.1	1.2	1	01/13/21 16:20	1/11/21	
Bis(2-ethylhexyl) Phthalate	0.91 U	9.1	0.91	1	01/13/21 16:20	1/11/21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 09:10
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-20
Lab Code: R2100149-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Butyl Benzyl Phthalate	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
Caprolactam	0.91 U	9.1	0.91	1	01/13/21 16:20	1/11/21	
Carbazole	1.4 U	9.1	1.4	1	01/13/21 16:20	1/11/21	
Chrysene	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
Di-n-butyl Phthalate	1.9 U	9.1	1.9	1	01/13/21 16:20	1/11/21	
Di-n-octyl Phthalate	3.0 U	9.1	3.0	1	01/13/21 16:20	1/11/21	
Dibenz(a,h)anthracene	0.93 U	9.1	0.93	1	01/13/21 16:20	1/11/21	
Dibenzofuran	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
Diethyl Phthalate	0.98 U	9.1	0.98	1	01/13/21 16:20	1/11/21	
Dimethyl Phthalate	1.2 U	9.1	1.2	1	01/13/21 16:20	1/11/21	
Fluoranthene	1.4 U	9.1	1.4	1	01/13/21 16:20	1/11/21	
Fluorene	1.2 U	9.1	1.2	1	01/13/21 16:20	1/11/21	
Hexachlorobenzene	1.4 U	9.1	1.4	1	01/13/21 16:20	1/11/21	
Hexachlorobutadiene	0.91 U	9.1	0.91	1	01/13/21 16:20	1/11/21	
Hexachlorocyclopentadiene	2.0 U	9.1	2.0	1	01/13/21 16:20	1/11/21	
Hexachloroethane	0.96 U	9.1	0.96	1	01/13/21 16:20	1/11/21	
Indeno(1,2,3-cd)pyrene	1.6 U	9.1	1.6	1	01/13/21 16:20	1/11/21	
Isophorone	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
N-Nitrosodi-n-propylamine	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
N-Nitrosodiphenylamine	2.4 U	9.1	2.4	1	01/13/21 16:20	1/11/21	
Naphthalene	1.1 U	9.1	1.1	1	01/13/21 16:20	1/11/21	
Nitrobenzene	1.4 U	9.1	1.4	1	01/13/21 16:20	1/11/21	
Pentachlorophenol (PCP)	8.9 U	45	8.9	1	01/13/21 16:20	1/11/21	
Phenanthrene	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	
Phenol	0.91 U	9.1	0.91	1	01/13/21 16:20	1/11/21	
Pyrene	1.3 U	9.1	1.3	1	01/13/21 16:20	1/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	01/13/21 16:20	
2-Fluorobiphenyl	66	31 - 118	01/13/21 16:20	
2-Fluorophenol	37	10 - 105	01/13/21 16:20	
Nitrobenzene-d5	65	31 - 110	01/13/21 16:20	
Phenol-d6	27	10 - 107	01/13/21 16:20	
Terphenyl-d14	76	10 - 165	01/13/21 16:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 11:23
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-18
Lab Code: R2100149-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
2,3,4,6-Tetrachlorophenol	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
2,4,5-Trichlorophenol	0.99 U	9.1	0.99	1	01/13/21 17:47	1/11/21	
2,4,6-Trichlorophenol	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
2,4-Dichlorophenol	1.2 U	9.1	1.2	1	01/13/21 17:47	1/11/21	
2,4-Dimethylphenol	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
2,4-Dinitrophenol	19 U	45	19	1	01/13/21 17:47	1/11/21	
2,4-Dinitrotoluene	2.2 U	9.1	2.2	1	01/13/21 17:47	1/11/21	
2,6-Dinitrotoluene	1.2 U	9.1	1.2	1	01/13/21 17:47	1/11/21	
2-Chloronaphthalene	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
2-Chlorophenol	0.97 U	9.1	0.97	1	01/13/21 17:47	1/11/21	
2-Methylnaphthalene	1.2 U	9.1	1.2	1	01/13/21 17:47	1/11/21	
2-Methylphenol	0.91 U	9.1	0.91	1	01/13/21 17:47	1/11/21	
2-Nitroaniline	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
2-Nitrophenol	1.4 U	9.1	1.4	1	01/13/21 17:47	1/11/21	
3,3'-Dichlorobenzidine	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
3- and 4-Methylphenol Coelution	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
3-Nitroaniline	2.3 U	9.1	2.3	1	01/13/21 17:47	1/11/21	
4,6-Dinitro-2-methylphenol	18 U	45	18	1	01/13/21 17:47	1/11/21	
4-Bromophenyl Phenyl Ether	1.5 U	9.1	1.5	1	01/13/21 17:47	1/11/21	
4-Chloro-3-methylphenol	0.98 U	9.1	0.98	1	01/13/21 17:47	1/11/21	
4-Chloroaniline	0.91 U	9.1	0.91	1	01/13/21 17:47	1/11/21	
4-Chlorophenyl Phenyl Ether	1.4 U	9.1	1.4	1	01/13/21 17:47	1/11/21	
4-Nitroaniline	2.5 U	9.1	2.5	1	01/13/21 17:47	1/11/21	
4-Nitrophenol	5.8 U	45	5.8	1	01/13/21 17:47	1/11/21	
Acenaphthene	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
Acenaphthylene	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
Acetophenone	1.2 U	9.1	1.2	1	01/13/21 17:47	1/11/21	
Anthracene	1.2 U	9.1	1.2	1	01/13/21 17:47	1/11/21	
Atrazine	1.9 U	9.1	1.9	1	01/13/21 17:47	1/11/21	
Benz(a)anthracene	1.5 U	9.1	1.5	1	01/13/21 17:47	1/11/21	
Benzaldehyde	3.4 U	9.1	3.4	1	01/13/21 17:47	1/11/21	
Benzo(a)pyrene	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
Benzo(b)fluoranthene	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
Benzo(g,h,i)perylene	0.91 U	9.1	0.91	1	01/13/21 17:47	1/11/21	
Benzo(k)fluoranthene	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
Biphenyl	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
2,2'-Oxybis(1-chloropropane)	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
Bis(2-chloroethoxy)methane	1.8 U	9.1	1.8	1	01/13/21 17:47	1/11/21	
Bis(2-chloroethyl) Ether	1.2 U	9.1	1.2	1	01/13/21 17:47	1/11/21	
Bis(2-ethylhexyl) Phthalate	0.91 U	9.1	0.91	1	01/13/21 17:47	1/11/21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 11:23
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-18
Lab Code: R2100149-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Butyl Benzyl Phthalate	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
Caprolactam	0.91 U	9.1	0.91	1	01/13/21 17:47	1/11/21	
Carbazole	1.4 U	9.1	1.4	1	01/13/21 17:47	1/11/21	
Chrysene	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
Di-n-butyl Phthalate	1.9 U	9.1	1.9	1	01/13/21 17:47	1/11/21	
Di-n-octyl Phthalate	3.0 U	9.1	3.0	1	01/13/21 17:47	1/11/21	
Dibenz(a,h)anthracene	0.93 U	9.1	0.93	1	01/13/21 17:47	1/11/21	
Dibenzofuran	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
Diethyl Phthalate	0.98 U	9.1	0.98	1	01/13/21 17:47	1/11/21	
Dimethyl Phthalate	1.2 U	9.1	1.2	1	01/13/21 17:47	1/11/21	
Fluoranthene	1.4 U	9.1	1.4	1	01/13/21 17:47	1/11/21	
Fluorene	1.2 U	9.1	1.2	1	01/13/21 17:47	1/11/21	
Hexachlorobenzene	1.4 U	9.1	1.4	1	01/13/21 17:47	1/11/21	
Hexachlorobutadiene	0.91 U	9.1	0.91	1	01/13/21 17:47	1/11/21	
Hexachlorocyclopentadiene	2.0 U	9.1	2.0	1	01/13/21 17:47	1/11/21	
Hexachloroethane	0.96 U	9.1	0.96	1	01/13/21 17:47	1/11/21	
Indeno(1,2,3-cd)pyrene	1.6 U	9.1	1.6	1	01/13/21 17:47	1/11/21	
Isophorone	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
N-Nitrosodi-n-propylamine	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
N-Nitrosodiphenylamine	2.4 U	9.1	2.4	1	01/13/21 17:47	1/11/21	
Naphthalene	1.1 U	9.1	1.1	1	01/13/21 17:47	1/11/21	
Nitrobenzene	1.4 U	9.1	1.4	1	01/13/21 17:47	1/11/21	
Pentachlorophenol (PCP)	8.9 U	45	8.9	1	01/13/21 17:47	1/11/21	
Phenanthrene	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	
Phenol	0.91 U	9.1	0.91	1	01/13/21 17:47	1/11/21	
Pyrene	1.3 U	9.1	1.3	1	01/13/21 17:47	1/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	100	35 - 141	01/13/21 17:47	
2-Fluorobiphenyl	69	31 - 118	01/13/21 17:47	
2-Fluorophenol	40	10 - 105	01/13/21 17:47	
Nitrobenzene-d5	67	31 - 110	01/13/21 17:47	
Phenol-d6	30	10 - 107	01/13/21 17:47	
Terphenyl-d14	74	10 - 165	01/13/21 17:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21 08:15

Sample Name: 401075-DUP-010621
Lab Code: R2100149-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
2,3,4,6-Tetrachlorophenol	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
2,4,5-Trichlorophenol	0.99 U	9.1	0.99	1	01/13/21 18:17	1/11/21	
2,4,6-Trichlorophenol	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
2,4-Dichlorophenol	1.2 U	9.1	1.2	1	01/13/21 18:17	1/11/21	
2,4-Dimethylphenol	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
2,4-Dinitrophenol	19 U	45	19	1	01/13/21 18:17	1/11/21	
2,4-Dinitrotoluene	2.2 U	9.1	2.2	1	01/13/21 18:17	1/11/21	
2,6-Dinitrotoluene	1.2 U	9.1	1.2	1	01/13/21 18:17	1/11/21	
2-Chloronaphthalene	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
2-Chlorophenol	0.97 U	9.1	0.97	1	01/13/21 18:17	1/11/21	
2-Methylnaphthalene	1.2 U	9.1	1.2	1	01/13/21 18:17	1/11/21	
2-Methylphenol	0.91 U	9.1	0.91	1	01/13/21 18:17	1/11/21	
2-Nitroaniline	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
2-Nitrophenol	1.4 U	9.1	1.4	1	01/13/21 18:17	1/11/21	
3,3'-Dichlorobenzidine	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
3- and 4-Methylphenol Coelution	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
3-Nitroaniline	2.3 U	9.1	2.3	1	01/13/21 18:17	1/11/21	
4,6-Dinitro-2-methylphenol	18 U	45	18	1	01/13/21 18:17	1/11/21	
4-Bromophenyl Phenyl Ether	1.5 U	9.1	1.5	1	01/13/21 18:17	1/11/21	
4-Chloro-3-methylphenol	0.98 U	9.1	0.98	1	01/13/21 18:17	1/11/21	
4-Chloroaniline	0.91 U	9.1	0.91	1	01/13/21 18:17	1/11/21	
4-Chlorophenyl Phenyl Ether	1.4 U	9.1	1.4	1	01/13/21 18:17	1/11/21	
4-Nitroaniline	2.5 U	9.1	2.5	1	01/13/21 18:17	1/11/21	
4-Nitrophenol	5.8 U	45	5.8	1	01/13/21 18:17	1/11/21	
Acenaphthene	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
Acenaphthylene	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
Acetophenone	1.2 U	9.1	1.2	1	01/13/21 18:17	1/11/21	
Anthracene	1.2 U	9.1	1.2	1	01/13/21 18:17	1/11/21	
Atrazine	1.9 U	9.1	1.9	1	01/13/21 18:17	1/11/21	
Benz(a)anthracene	1.5 U	9.1	1.5	1	01/13/21 18:17	1/11/21	
Benzaldehyde	3.4 U	9.1	3.4	1	01/13/21 18:17	1/11/21	
Benzo(a)pyrene	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
Benzo(b)fluoranthene	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
Benzo(g,h,i)perylene	0.91 U	9.1	0.91	1	01/13/21 18:17	1/11/21	
Benzo(k)fluoranthene	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
Biphenyl	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
2,2'-Oxybis(1-chloropropane)	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
Bis(2-chloroethoxy)methane	1.8 U	9.1	1.8	1	01/13/21 18:17	1/11/21	
Bis(2-chloroethyl) Ether	1.2 U	9.1	1.2	1	01/13/21 18:17	1/11/21	
Bis(2-ethylhexyl) Phthalate	0.91 U	9.1	0.91	1	01/13/21 18:17	1/11/21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21 08:15

Sample Name: 401075-DUP-010621
Lab Code: R2100149-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Butyl Benzyl Phthalate	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
Caprolactam	0.91 U	9.1	0.91	1	01/13/21 18:17	1/11/21	
Carbazole	1.4 U	9.1	1.4	1	01/13/21 18:17	1/11/21	
Chrysene	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
Di-n-butyl Phthalate	1.9 U	9.1	1.9	1	01/13/21 18:17	1/11/21	
Di-n-octyl Phthalate	3.0 U	9.1	3.0	1	01/13/21 18:17	1/11/21	
Dibenz(a,h)anthracene	0.93 U	9.1	0.93	1	01/13/21 18:17	1/11/21	
Dibenzofuran	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
Diethyl Phthalate	0.98 U	9.1	0.98	1	01/13/21 18:17	1/11/21	
Dimethyl Phthalate	1.2 U	9.1	1.2	1	01/13/21 18:17	1/11/21	
Fluoranthene	1.4 U	9.1	1.4	1	01/13/21 18:17	1/11/21	
Fluorene	1.2 U	9.1	1.2	1	01/13/21 18:17	1/11/21	
Hexachlorobenzene	1.4 U	9.1	1.4	1	01/13/21 18:17	1/11/21	
Hexachlorobutadiene	0.91 U	9.1	0.91	1	01/13/21 18:17	1/11/21	
Hexachlorocyclopentadiene	2.0 U	9.1	2.0	1	01/13/21 18:17	1/11/21	
Hexachloroethane	0.96 U	9.1	0.96	1	01/13/21 18:17	1/11/21	
Indeno(1,2,3-cd)pyrene	1.6 U	9.1	1.6	1	01/13/21 18:17	1/11/21	
Isophorone	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
N-Nitrosodi-n-propylamine	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
N-Nitrosodiphenylamine	2.4 U	9.1	2.4	1	01/13/21 18:17	1/11/21	
Naphthalene	1.1 U	9.1	1.1	1	01/13/21 18:17	1/11/21	
Nitrobenzene	1.4 U	9.1	1.4	1	01/13/21 18:17	1/11/21	
Pentachlorophenol (PCP)	8.9 U	45	8.9	1	01/13/21 18:17	1/11/21	
Phenanthrene	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	
Phenol	0.91 U	9.1	0.91	1	01/13/21 18:17	1/11/21	
Pyrene	1.3 U	9.1	1.3	1	01/13/21 18:17	1/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	35 - 141	01/13/21 18:17	
2-Fluorobiphenyl	57	31 - 118	01/13/21 18:17	
2-Fluorophenol	35	10 - 105	01/13/21 18:17	
Nitrobenzene-d5	57	31 - 110	01/13/21 18:17	
Phenol-d6	27	10 - 107	01/13/21 18:17	
Terphenyl-d14	68	10 - 165	01/13/21 18:17	



Semivolatile Organic Compounds by GC

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 09:10
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-20
Lab Code: R2100149-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
4,4'-DDE	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
4,4'-DDT	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Aldrin	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Dieldrin	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Endosulfan I	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Endosulfan II	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Endosulfan Sulfate	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Endrin	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Endrin Aldehyde	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Endrin Ketone	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Heptachlor	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Heptachlor Epoxide	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Methoxychlor	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
Toxaphene	0.46 U	0.46	0.46	1	01/14/21 03:09	1/12/21	
alpha-BHC	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
alpha-Chlordane	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
beta-BHC	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
delta-BHC	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
gamma-BHC (Lindane)	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	
gamma-Chlordane	0.019 U	0.045	0.019	1	01/14/21 03:09	1/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	10 - 164	01/14/21 03:09	
Tetrachloro-m-xylene	47	10 - 147	01/14/21 03:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 11:23
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-18
Lab Code: R2100149-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
4,4'-DDE	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
4,4'-DDT	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Aldrin	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Dieldrin	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Endosulfan I	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Endosulfan II	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Endosulfan Sulfate	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Endrin	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Endrin Aldehyde	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Endrin Ketone	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Heptachlor	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Heptachlor Epoxide	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Methoxychlor	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
Toxaphene	0.46 U	0.46	0.46	1	01/14/21 04:06	1/12/21	
alpha-BHC	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
alpha-Chlordane	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
beta-BHC	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
delta-BHC	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
gamma-BHC (Lindane)	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	
gamma-Chlordane	0.019 U	0.045	0.019	1	01/14/21 04:06	1/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	55	10 - 164	01/14/21 04:06	
Tetrachloro-m-xylene	61	10 - 147	01/14/21 04:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21 08:15

Sample Name: 401075-DUP-010621
Lab Code: R2100149-005

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
4,4'-DDE	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
4,4'-DDT	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Aldrin	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Dieldrin	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Endosulfan I	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Endosulfan II	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Endosulfan Sulfate	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Endrin	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Endrin Aldehyde	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Endrin Ketone	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Heptachlor	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Heptachlor Epoxide	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Methoxychlor	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
Toxaphene	0.46 U	0.46	0.46	1	01/14/21 04:25	1/12/21	
alpha-BHC	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
alpha-Chlordane	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
beta-BHC	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
delta-BHC	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
gamma-BHC (Lindane)	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	
gamma-Chlordane	0.019 U	0.045	0.019	1	01/14/21 04:25	1/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 164	01/14/21 04:25	
Tetrachloro-m-xylene	57	10 - 147	01/14/21 04:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 09:10
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-20
Lab Code: R2100149-001

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.46 U	0.91	0.46	1	01/14/21 06:59	1/12/21	
Aroclor 1221	0.91 U	1.8	0.91	1	01/14/21 06:59	1/12/21	
Aroclor 1232	0.46 U	0.91	0.46	1	01/14/21 06:59	1/12/21	
Aroclor 1242	0.46 U	0.91	0.46	1	01/14/21 06:59	1/12/21	
Aroclor 1248	0.46 U	0.91	0.46	1	01/14/21 06:59	1/12/21	
Aroclor 1254	0.46 U	0.91	0.46	1	01/14/21 06:59	1/12/21	
Aroclor 1260	0.46 U	0.91	0.46	1	01/14/21 06:59	1/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 152	01/14/21 06:59	
Tetrachloro-m-xylene	47	14 - 129	01/14/21 06:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21 11:23
Date Received: 01/07/21 08:15

Sample Name: 401075-MW-18
Lab Code: R2100149-002

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.46 U	0.91	0.46	1	01/14/21 08:17	1/12/21	
Aroclor 1221	0.91 U	1.8	0.91	1	01/14/21 08:17	1/12/21	
Aroclor 1232	0.46 U	0.91	0.46	1	01/14/21 08:17	1/12/21	
Aroclor 1242	0.46 U	0.91	0.46	1	01/14/21 08:17	1/12/21	
Aroclor 1248	0.46 U	0.91	0.46	1	01/14/21 08:17	1/12/21	
Aroclor 1254	0.46 U	0.91	0.46	1	01/14/21 08:17	1/12/21	
Aroclor 1260	0.46 U	0.91	0.46	1	01/14/21 08:17	1/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 152	01/14/21 08:17	
Tetrachloro-m-xylene	59	14 - 129	01/14/21 08:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21 08:15

Sample Name: 401075-DUP-010621
Lab Code: R2100149-005

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.46 U	0.91	0.46	1	01/14/21 08:37	1/12/21	
Aroclor 1221	0.91 U	1.8	0.91	1	01/14/21 08:37	1/12/21	
Aroclor 1232	0.46 U	0.91	0.46	1	01/14/21 08:37	1/12/21	
Aroclor 1242	0.46 U	0.91	0.46	1	01/14/21 08:37	1/12/21	
Aroclor 1248	0.46 U	0.91	0.46	1	01/14/21 08:37	1/12/21	
Aroclor 1254	0.46 U	0.91	0.46	1	01/14/21 08:37	1/12/21	
Aroclor 1260	0.46 U	0.91	0.46	1	01/14/21 08:37	1/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 152	01/14/21 08:37	
Tetrachloro-m-xylene	54	14 - 129	01/14/21 08:37	



Metals

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

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: EA Engineering, Science, and Tec **Service Request:** 401075-MW-20
Project No.: R2100149 **Date Collected:** 1/6/2021
Project Name: **Date Received:** 1/7/2021
Matrix: WATER **Units:** ug/L
Basis:

Sample Name: 401075-MW-20 **Lab Code:** R2100149-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	100	U	
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	5.5	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	169		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	104000		
Chromium	6010C	10.0	0.590	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	61.0	1.0	1740		
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	44100		
Manganese	6010C	10.0	3.7	1.0	1010		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	12400		
Selenium	6010C	10.0	6.4	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	141000		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: EA Engineering, Science, and Tec **Service Request:** 401075-MW-20
Project No.: R2100149 **Date Collected:** 1/6/2021
Project Name: **Date Received:** 1/7/2021
Matrix: WATER **Units:** ug/L
Basis:

Sample Name: 401075-MW-18 **Lab Code:** R2100149-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	100	U	
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	5.5	1.0	5.6	J	
Barium	6010C	20.0	3.0	1.0	281		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	111000		
Chromium	6010C	10.0	0.590	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	1.2	J	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	61.0	1.0	1610		
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	51400		
Manganese	6010C	10.0	3.7	1.0	1830		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	10000		
Selenium	6010C	10.0	6.4	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	129000		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: EA Engineering, Science, and Tec **Service Request:** 401075-MW-20
Project No.: R2100149 **Date Collected:** 1/6/2021
Project Name: **Date Received:** 1/7/2021
Matrix: WATER **Units:** ug/L
Basis:

Sample Name: 401075-DUP-010621 **Lab Code:** R2100149-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	100	U	
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	5.5	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	276		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	110000		
Chromium	6010C	10.0	0.590	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	61.0	1.0	1580		
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	51000		
Manganese	6010C	10.0	3.7	1.0	1810		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	9950		
Selenium	6010C	10.0	6.4	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	128000		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:



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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Sample Name: 401075-MW-09
Lab Code: R2100149-004

Service Request: R2100149
Date Collected: 01/06/21 14:50
Date Received: 01/07/21 08:15

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	56.0	mg/L	2.0	1.8	1	01/10/21 05:13	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	2.5	mg/L	1.0	0.5	1	01/15/21 00:14	
Nitrate as Nitrogen	9056A	10.9	mg/L	1.0	0.2	10	01/07/21 15:01	
Nitrite as Nitrogen	9056A	0.2 U	mg/L	1.0	0.2	10	01/07/21 15:01	
Sulfate	9056A	36.4	mg/L	2.0	0.4	10	01/07/21 15:01	



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

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)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
401075-MW-20	R2100149-001	92	97	100
401075-MW-18	R2100149-002	93	100	99
401075-MW-02	R2100149-003	95	101	102
401075-MW-09	R2100149-004	93	102	102
401075-DUP-010621	R2100149-005	95	101	102
401075-TB-12222020	R2100149-006	92	102	100
Method Blank	RQ2100457-04	94	98	100
Method Blank	RQ2100515-06	93	97	100
Lab Control Sample	RQ2100457-03	99	103	104
Lab Control Sample	RQ2100515-03	94	101	99
401075-MW-20 MS	RQ2100515-08	99	101	101
401075-MW-20 DMS	RQ2100515-09	102	102	101

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21
Date Analyzed: 01/19/21
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: 401075-MW-20
Lab Code: R2100149-001
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2100515-08			Duplicate Matrix Spike RQ2100515-09			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	1.0 U	242	250	97	256	250	102	74-127	5	30
1,1,2,2-Tetrachloroethane	1.0 U	229	250	92	252	250	101	72-122	9	30
1,1,2-Trichloroethane	1.0 U	245	250	98	252	250	101	82-121	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	237	250	95	250	250	100	50-147	5	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	243	250	97	256	250	102	74-132	5	30
1,1-Dichloroethene (1,1-DCE)	1.2 J	293	250	117	313	250	125 *	71-118	7	30
1,2,4-Trichlorobenzene	1.7 U	230	250	92	253	250	101	69-122	9	30
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	224	250	90	254	250	102	37-150	13	30
1,2-Dibromoethane	1.0 U	245	250	98	263	250	105	67-127	7	30
1,2-Dichlorobenzene	1.0 U	231	250	92	248	250	99	77-120	7	30
1,2-Dichloroethane	1.0 U	233	250	93	237	250	95	68-130	1	30
1,2-Dichloropropane	1.0 U	243	250	97	256	250	103	79-124	5	30
1,3-Dichlorobenzene	1.0 U	241	250	96	255	250	102	83-121	6	30
1,4-Dichlorobenzene	1.0 U	235	250	94	248	250	99	82-120	5	30
2-Butanone (MEK)	3.9 U	223	250	89	240	250	96	61-137	8	30
2-Hexanone	1.0 U	233	250	93	250	250	100	56-132	7	30
4-Methyl-2-pentanone	1.0 U	234	250	94	242	250	97	60-141	3	30
Acetone	25 U	216	250	86	232	250	93	35-183	7	30
Benzene	1.0 U	248	250	99	257	250	103	76-129	4	30
Bromodichloromethane	1.0 U	236	250	94	248	250	99	78-133	5	30
Bromoform	1.3 U	235	250	94	262	250	105	58-133	11	30
Bromomethane	3.5 U	231	250	92	254	250	101	10-184	9	30
Carbon Disulfide	2.1 U	240	250	96	245	250	98	59-140	2	30
Carbon Tetrachloride	1.7 U	242	250	97	253	250	101	65-135	4	30
Chlorobenzene	1.0 U	247	250	99	263	250	105	76-125	7	30
Chloroethane	1.2 U	242	250	97	257	250	103	48-146	6	30
Chloroform	1.4 J	241	250	96	251	250	100	75-130	4	30
Chloromethane	1.4 U	257	250	103	274	250	110	55-160	6	30
Cyclohexane	1.3 U	219	250	88	217	250	87	52-145	<1	30
Dibromochloromethane	1.0 U	258	250	103	278	250	111	72-128	7	30
Dichlorodifluoromethane (CFC 12)	1.1 U	279	250	112	313	250	125	49-154	11	30
Dichloromethane	3.3 U	230	250	92	242	250	97	73-122	5	30
Ethylbenzene	1.0 U	263	250	105	280	250	112	72-134	6	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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21
Date Analyzed: 01/19/21
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: 401075-MW-20
Lab Code: R2100149-001
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2100515-08			Duplicate Matrix Spike RQ2100515-09				RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Isopropylbenzene (Cumene)	1.0 U	264	250	106	284	250	114	77-128	7	30
Methyl Acetate	1.7 U	193	250	77	196	250	78	26-121	2	30
Methyl tert-Butyl Ether	1.0 U	240	250	96	256	250	102	75-119	6	30
Methylcyclohexane	1.0 U	237	250	95	228	250	91	45-146	4	30
Styrene	1.0 U	252	250	101	272	250	109	74-136	8	30
Tetrachloroethene (PCE)	360	608	250	100	616	250	103	72-125	1	30
Toluene	1.0 U	253	250	101	259	250	103	79-119	2	30
Trichloroethene (TCE)	150	398	250	100	413	250	106	74-122	4	30
Trichlorofluoromethane (CFC 11)	1.2 U	260	250	104	270	250	108	71-136	4	30
Vinyl Chloride	1.7 J	262	250	104	274	250	109	74-159	4	30
cis-1,2-Dichloroethene	490	706	250	87	722	250	94	77-127	2	30
cis-1,3-Dichloropropene	1.0 U	239	250	96	256	250	103	52-134	7	30
trans-1,2-Dichloroethene	1.0 J	268	250	107	289	250	115	73-118	8	30
trans-1,3-Dichloropropene	1.2 U	237	250	95	261	250	104	71-133	10	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.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100457-04

Units: ug/L
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	01/15/21 12:26	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/15/21 12:26	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/15/21 12:26	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 12:26	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/15/21 12:26	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/15/21 12:26	
2-Hexanone	0.20 U	10	0.20	1	01/15/21 12:26	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/15/21 12:26	
Acetone	5.0 U	10	5.0	1	01/15/21 12:26	
Benzene	0.20 U	5.0	0.20	1	01/15/21 12:26	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/15/21 12:26	
Bromoform	0.25 U	5.0	0.25	1	01/15/21 12:26	
Bromomethane	0.70 U	5.0	0.70	1	01/15/21 12:26	
Carbon Disulfide	0.42 U	10	0.42	1	01/15/21 12:26	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/15/21 12:26	
Chlorobenzene	0.20 U	5.0	0.20	1	01/15/21 12:26	
Chloroethane	0.23 U	5.0	0.23	1	01/15/21 12:26	
Chloroform	0.24 U	5.0	0.24	1	01/15/21 12:26	
Chloromethane	0.28 U	5.0	0.28	1	01/15/21 12:26	
Cyclohexane	0.26 U	10	0.26	1	01/15/21 12:26	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/15/21 12:26	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/15/21 12:26	
Dichloromethane	0.65 U	5.0	0.65	1	01/15/21 12:26	
Ethylbenzene	0.20 U	5.0	0.20	1	01/15/21 12:26	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/15/21 12:26	
Methyl Acetate	0.33 U	10	0.33	1	01/15/21 12:26	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/15/21 12:26	
Methylcyclohexane	0.20 U	10	0.20	1	01/15/21 12:26	
Styrene	0.20 U	5.0	0.20	1	01/15/21 12:26	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/15/21 12:26	
Toluene	0.20 U	5.0	0.20	1	01/15/21 12:26	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/15/21 12:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100457-04

Units: ug/L
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	01/15/21 12:26	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/15/21 12:26	
Xylenes, Total	0.23 U	5.0	0.23	1	01/15/21 12:26	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/15/21 12:26	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/15/21 12:26	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/15/21 12:26	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/15/21 12:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	01/15/21 12:26	
Dibromofluoromethane	98	80 - 116	01/15/21 12:26	
Toluene-d8	100	87 - 121	01/15/21 12:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100515-06

Units: ug/L
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	01/19/21 13:09	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/19/21 13:09	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/19/21 13:09	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/19/21 13:09	
2-Hexanone	0.20 U	10	0.20	1	01/19/21 13:09	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/19/21 13:09	
Acetone	5.0 U	10	5.0	1	01/19/21 13:09	
Benzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
Bromoform	0.25 U	5.0	0.25	1	01/19/21 13:09	
Bromomethane	0.70 U	5.0	0.70	1	01/19/21 13:09	
Carbon Disulfide	0.42 U	10	0.42	1	01/19/21 13:09	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/19/21 13:09	
Chlorobenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Chloroethane	0.23 U	5.0	0.23	1	01/19/21 13:09	
Chloroform	0.24 U	5.0	0.24	1	01/19/21 13:09	
Chloromethane	0.28 U	5.0	0.28	1	01/19/21 13:09	
Cyclohexane	0.26 U	10	0.26	1	01/19/21 13:09	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/19/21 13:09	
Dichloromethane	0.65 U	5.0	0.65	1	01/19/21 13:09	
Ethylbenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/19/21 13:09	
Methyl Acetate	0.33 U	10	0.33	1	01/19/21 13:09	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/19/21 13:09	
Methylcyclohexane	0.20 U	10	0.20	1	01/19/21 13:09	
Styrene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/19/21 13:09	
Toluene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/19/21 13:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100515-06

Units: ug/L
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	01/19/21 13:09	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/19/21 13:09	
Xylenes, Total	0.23 U	5.0	0.23	1	01/19/21 13:09	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/19/21 13:09	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/19/21 13:09	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/19/21 13:09	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/19/21 13:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/19/21 13:09	
Dibromofluoromethane	97	80 - 116	01/19/21 13:09	
Toluene-d8	100	87 - 121	01/19/21 13:09	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/15/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100457-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.4	20.0	107	75-125
1,1,2,2-Tetrachloroethane	8260C	19.8	20.0	99	78-126
1,1,2-Trichloroethane	8260C	21.4	20.0	107	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.3	20.0	112	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	22.0	20.0	110	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	27.5	20.0	137 *	71-118
1,2,4-Trichlorobenzene	8260C	19.6	20.0	98	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.5	20.0	93	55-136
1,2-Dibromoethane	8260C	20.8	20.0	104	82-127
1,2-Dichlorobenzene	8260C	20.2	20.0	101	80-119
1,2-Dichloroethane	8260C	20.7	20.0	104	71-127
1,2-Dichloropropane	8260C	22.0	20.0	110	80-119
1,3-Dichlorobenzene	8260C	20.6	20.0	103	83-121
1,4-Dichlorobenzene	8260C	20.3	20.0	101	79-119
2-Butanone (MEK)	8260C	19.5	20.0	97	61-137
2-Hexanone	8260C	18.8	20.0	94	63-124
4-Methyl-2-pentanone	8260C	19.7	20.0	99	66-124
Acetone	8260C	19.2	20.0	96	40-161
Benzene	8260C	22.2	20.0	111	79-119
Bromodichloromethane	8260C	20.7	20.0	104	81-123
Bromoform	8260C	20.8	20.0	104	65-146
Bromomethane	8260C	20.5	20.0	102	42-166
Carbon Disulfide	8260C	22.2	20.0	111	66-128
Carbon Tetrachloride	8260C	22.2	20.0	111	70-127
Chlorobenzene	8260C	21.4	20.0	107	80-121
Chloroethane	8260C	22.2	20.0	111	62-131
Chloroform	8260C	21.8	20.0	109	79-120
Chloromethane	8260C	23.7	20.0	119	65-135
Cyclohexane	8260C	20.9	20.0	104	69-120
Dibromochloromethane	8260C	21.3	20.0	107	72-128
Dichlorodifluoromethane (CFC 12)	8260C	27.9	20.0	139	59-155
Dichloromethane	8260C	20.8	20.0	104	73-122
Ethylbenzene	8260C	22.0	20.0	110	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/15/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100457-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	22.5	20.0	112	77-128
Methyl Acetate	8260C	15.9	20.0	79	61-133
Methyl tert-Butyl Ether	8260C	21.3	20.0	106	75-118
Methylcyclohexane	8260C	21.1	20.0	105	51-129
Styrene	8260C	22.0	20.0	110	80-124
Tetrachloroethene (PCE)	8260C	21.5	20.0	107	72-125
Toluene	8260C	22.1	20.0	111	79-119
Trichloroethene (TCE)	8260C	21.6	20.0	108	74-122
Trichlorofluoromethane (CFC 11)	8260C	24.1	20.0	121	71-136
Vinyl Chloride	8260C	23.0	20.0	115	74-159
cis-1,2-Dichloroethene	8260C	23.1	20.0	116	80-121
cis-1,3-Dichloropropene	8260C	20.9	20.0	104	77-122
trans-1,2-Dichloroethene	8260C	24.2	20.0	121 *	73-118
trans-1,3-Dichloropropene	8260C	21.9	20.0	109	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/19/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100515-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.0	20.0	100	75-125
1,1,2,2-Tetrachloroethane	8260C	20.0	20.0	100	78-126
1,1,2-Trichloroethane	8260C	20.3	20.0	102	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.7	20.0	98	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.7	20.0	99	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.9	20.0	120 *	71-118
1,2,4-Trichlorobenzene	8260C	19.7	20.0	98	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	20.8	20.0	104	55-136
1,2-Dibromoethane	8260C	20.0	20.0	100	82-127
1,2-Dichlorobenzene	8260C	19.9	20.0	100	80-119
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
1,2-Dichloropropane	8260C	19.1	20.0	96	80-119
1,3-Dichlorobenzene	8260C	20.2	20.0	101	83-121
1,4-Dichlorobenzene	8260C	19.8	20.0	99	79-119
2-Butanone (MEK)	8260C	17.5	20.0	87	61-137
2-Hexanone	8260C	17.3	20.0	86	63-124
4-Methyl-2-pentanone	8260C	17.7	20.0	89	66-124
Acetone	8260C	17.8	20.0	89	40-161
Benzene	8260C	19.9	20.0	99	79-119
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	22.3	20.0	112	65-146
Bromomethane	8260C	18.3	20.0	92	42-166
Carbon Disulfide	8260C	19.7	20.0	99	66-128
Carbon Tetrachloride	8260C	20.7	20.0	104	70-127
Chlorobenzene	8260C	20.2	20.0	101	80-121
Chloroethane	8260C	18.3	20.0	92	62-131
Chloroform	8260C	19.6	20.0	98	79-120
Chloromethane	8260C	21.3	20.0	107	65-135
Cyclohexane	8260C	19.3	20.0	96	69-120
Dibromochloromethane	8260C	22.6	20.0	113	72-128
Dichlorodifluoromethane (CFC 12)	8260C	25.1	20.0	125	59-155
Dichloromethane	8260C	19.4	20.0	97	73-122
Ethylbenzene	8260C	21.9	20.0	109	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/19/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100515-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.2	20.0	106	77-128
Methyl Acetate	8260C	15.8	20.0	79	61-133
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	75-118
Methylcyclohexane	8260C	19.8	20.0	99	51-129
Styrene	8260C	20.2	20.0	101	80-124
Tetrachloroethene (PCE)	8260C	19.6	20.0	98	72-125
Toluene	8260C	20.8	20.0	104	79-119
Trichloroethene (TCE)	8260C	19.9	20.0	99	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.5	20.0	108	71-136
Vinyl Chloride	8260C	20.4	20.0	102	74-159
cis-1,2-Dichloroethene	8260C	20.8	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	19.6	20.0	98	77-122
trans-1,2-Dichloroethene	8260C	22.0	20.0	110	73-118
trans-1,3-Dichloropropene	8260C	21.3	20.0	106	71-133



Volatile Organic Compounds by GC

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2100405-02

Service Request: R2100149
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	0.17 U	1.0	0.17	1	01/14/21 10:58	
Ethylene	0.35 U	1.0	0.35	1	01/14/21 10:58	
Methane	0.75 U	1.1	0.75	1	01/14/21 10:58	
Propane	0.28 U	1.0	0.28	1	01/14/21 10:58	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/14/21

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2100405-03					RQ2100405-04					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	26.4	26.0	101	26.0	26.0	100	76-126	1	20
Ethylene	RSK 175	24.3	24.3	100	24.2	24.3	100	73-129	<1	20
Methane	RSK 175	27.2	26.2	104	26.1	26.2	99	75-128	4	20
Propane	RSK 175	25.0	25.4	98	23.7	25.4	93	73-131	5	20



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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
401075-MW-20	R2100149-001	84	66	37
401075-MW-18	R2100149-002	100	69	40
401075-DUP-010621	R2100149-005	91	57	35
Method Blank	RQ2100232-03	66	58	34
Lab Control Sample	RQ2100232-04	83	70	35
Duplicate Lab Control Sample	RQ2100232-05	81	74	41
401075-MW-20 MS	RQ2100232-01	92	64	42
401075-MW-20 DMS	RQ2100232-02	95	72	46

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		31-110	10-107	10-165
401075-MW-20	R2100149-001	65	27	76
401075-MW-18	R2100149-002	67	30	74
401075-DUP-010621	R2100149-005	57	27	68
Method Blank	RQ2100232-03	55	24	72
Lab Control Sample	RQ2100232-04	61	26	82
Duplicate Lab Control Sample	RQ2100232-05	70	30	82
401075-MW-20 MS	RQ2100232-01	64	29	73
401075-MW-20 DMS	RQ2100232-02	66	31	67

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21
Date Analyzed: 01/13/21
Date Extracted: 01/11/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: 401075-MW-20
Lab Code: R2100149-001
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2100232-01			Duplicate Matrix Spike RQ2100232-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2,4,5-Tetrachlorobenzene	1.1 U	41.4	72.8	57	43.8	72.8	60	15-132	5	30
2,3,4,6-Tetrachlorophenol	1.1 U	68.6	72.7	94	67.4	72.7	93	42-136	1	30
2,4,5-Trichlorophenol	0.99 U	58.0	72.7	80	54.8	72.7	75	48-134	6	30
2,4,6-Trichlorophenol	1.3 U	52.1	72.7	72	55.0	72.7	76	44-135	5	30
2,4-Dichlorophenol	1.2 U	46.1	72.7	63	48.2	72.7	66	40-130	5	30
2,4-Dimethylphenol	1.3 U	47.9	72.7	66	49.3	72.7	68	42-121	3	30
2,4-Dinitrophenol	19 U	89.2	72.7	123	82.1	72.7	113	21-168	8	30
2,4-Dinitrotoluene	2.2 U	56.5	72.7	78	54.1	72.7	74	37-143	5	30
2,6-Dinitrotoluene	1.2 U	58.6	72.7	81	57.6	72.7	79	39-136	3	30
2-Chloronaphthalene	1.3 U	43.9	72.7	60	47.2	72.7	65	40-108	8	30
2-Chlorophenol	0.97 U	41.4	72.7	57	43.9	72.7	60	37-112	5	30
2-Methylnaphthalene	1.2 U	42.8	72.7	59	44.9	72.7	62	34-102	5	30
2-Methylphenol	0.91 U	42.0	72.7	58	43.4	72.7	60	37-102	3	30
2-Nitroaniline	1.3 U	55.3	72.7	76	54.6	72.7	75	40-136	1	30
2-Nitrophenol	1.4 U	46.6	72.7	64	46.2	72.7	64	27-143	<1	30
3,3'-Dichlorobenzidine	1.1 U	57.6	72.7	79	55.5	72.7	76	11-131	4	30
3- and 4-Methylphenol Coelution	1.1 U	42.8	72.7	59	41.7	72.7	57	30-95	3	30
3-Nitroaniline	2.3 U	54.7	72.7	75	50.3	72.7	69	19-117	8	30
4,6-Dinitro-2-methylphenol	18 U	65.0	72.7	89	64.6	72.7	89	25-154	<1	30
4-Bromophenyl Phenyl Ether	1.5 U	61.3	72.7	84	60.5	72.7	83	39-115	1	30
4-Chloro-3-methylphenol	0.98 U	55.3	72.7	76	53.7	72.7	74	41-126	3	30
4-Chloroaniline	0.91 U	61.5	72.7	85	58.4	72.7	80	19-111	6	30
4-Chlorophenyl Phenyl Ether	1.4 U	51.2	72.7	70	52.3	72.7	72	41-111	3	30
4-Nitroaniline	2.5 U	54.9	72.7	75	53.6	72.7	74	18-143	1	30
4-Nitrophenol	5.8 U	30.4 J	72.7	42	30.5 J	72.7	42	10-126	<1	30
Acenaphthene	1.3 U	47.5	72.7	65	49.5	72.7	68	43-117	5	30
Acenaphthylene	1.3 U	49.9	72.7	69	51.4	72.7	71	45-119	3	30
Acetophenone	1.2 U	93.4	145	64	94.6	145	65	40-113	2	30
Anthracene	1.2 U	61.7	72.7	85	57.6	72.7	79	45-127	7	30
Atrazine	1.9 U	86.3	72.7	119	80.6	72.7	111	50-165	7	30
Benz(a)anthracene	1.5 U	58.1	72.7	80	55.0	72.7	76	46-126	5	30
Benzaldehyde	3.4 U	47.8	72.7	66	50.9	72.7	70	32-133	6	30
Benzo(a)pyrene	1.1 U	72.3	72.7	99	68.5	72.7	94	44-114	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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21
Date Analyzed: 01/13/21
Date Extracted: 01/11/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: 401075-MW-20
Lab Code: R2100149-001
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2100232-01				Duplicate Matrix Spike RQ2100232-02				% Rec Limits	RPD	RPD Limit
	Sample	Result	Spike	% Rec	Result	Spike	% Rec				
	Result		Amount			Amount					
Benzo(b)fluoranthene	1.1 U	58.3	72.7	80	55.3	72.7	76	41-127	5	30	
Benzo(g,h,i)perylene	0.91 U	71.5	72.7	98	68.0	72.7	93	50-143	5	30	
Benzo(k)fluoranthene	1.1 U	61.0	72.7	84	57.7	72.7	79	46-139	6	30	
Biphenyl	1.3 U	46.4	72.7	64	48.3	72.7	66	10-126	3	30	
2,2'-Oxybis(1-chloropropane)	1.3 U	40.1	72.7	55	43.1	72.7	59	21-126	7	30	
Bis(2-chloroethoxy)methane	1.8 U	52.6	72.7	72	57.0	72.7	78	41-118	8	30	
Bis(2-chloroethyl) Ether	1.2 U	44.8	72.7	62	49.5	72.7	68	33-108	9	30	
Bis(2-ethylhexyl) Phthalate	0.91 U	61.0	72.7	84	58.0	72.7	80	41-132	5	30	
Butyl Benzyl Phthalate	1.3 U	61.5	72.7	85	57.1	72.7	78	41-148	9	30	
Caprolactam	0.91 U	20.3	72.7	28	20.2	72.7	28	10-48	<1	30	
Carbazole	1.4 U	74.0	72.7	102	70.0	72.7	96	39-144	6	30	
Chrysene	1.1 U	60.4	72.7	83	56.1	72.7	77	47-126	8	30	
Di-n-butyl Phthalate	1.9 U	74.5	72.7	102	70.6	72.7	97	43-130	5	30	
Di-n-octyl Phthalate	3.0 U	62.4	72.7	86	60.4	72.7	83	40-139	4	30	
Dibenz(a,h)anthracene	0.93 U	52.5	72.7	72	51.1	72.7	70	43-136	3	30	
Dibenzofuran	1.3 U	51.8	72.7	71	51.3	72.7	71	46-119	<1	30	
Diethyl Phthalate	0.98 U	53.5	72.7	74	49.3	72.7	68	36-122	8	30	
Dimethyl Phthalate	1.2 U	59.4	72.7	82	59.5	72.7	82	33-123	<1	30	
Fluoranthene	1.4 U	72.0	72.7	99	67.5	72.7	93	43-135	6	30	
Fluorene	1.2 U	53.3	72.7	73	53.7	72.7	74	43-113	1	30	
Hexachlorobenzene	1.4 U	63.5	72.7	87	60.4	72.7	83	42-125	5	30	
Hexachlorobutadiene	0.91 U	36.7	72.7	50	42.9	72.7	59	10-111	17	30	
Hexachlorocyclopentadiene	2.0 U	69.5	72.7	96	73.9	72.7	102	10-103	6	30	
Hexachloroethane	0.96 U	32.5	72.7	45	36.9	72.7	51	12-101	13	30	
Indeno(1,2,3-cd)pyrene	1.6 U	64.7	72.7	89	61.4	72.7	84	49-140	6	30	
Isophorone	1.3 U	46.3	72.7	64	48.8	72.7	67	40-111	5	30	
N-Nitrosodi-n-propylamine	1.1 U	49.1	72.7	67	50.1	72.7	69	35-108	3	30	
N-Nitrosodiphenylamine	2.4 U	66.2	72.7	91	64.3	72.7	88	43-127	3	30	
Naphthalene	1.1 U	40.7	72.7	56	44.8	72.7	62	37-108	10	30	
Nitrobenzene	1.4 U	41.9	72.7	58	46.8	72.7	64	35-112	10	30	
Pentachlorophenol (PCP)	8.9 U	92.2	72.7	127	86.2	72.7	119	29-164	7	30	
Phenanthrene	1.3 U	58.4	72.7	80	55.6	72.7	76	46-123	5	30	
Phenol	0.91 U	21.2	72.7	29	22.5	72.7	31	10-113	7	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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21
Date Analyzed: 01/13/21
Date Extracted: 01/11/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: 401075-MW-20
Lab Code: R2100149-001
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2100232-01			Duplicate Matrix Spike RQ2100232-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyrene	1.3 U	61.6	72.7	85	57.4	72.7	79	44-129	7	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.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100232-03

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
2,3,4,6-Tetrachlorophenol	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
2,4,5-Trichlorophenol	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
2,4,6-Trichlorophenol	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2,4-Dichlorophenol	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
2,4-Dimethylphenol	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2,4-Dinitrophenol	20 U	50	20	1	01/19/21 23:54	1/11/21	
2,4-Dinitrotoluene	2.4 U	10	2.4	1	01/19/21 23:54	1/11/21	
2,6-Dinitrotoluene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2-Chloronaphthalene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2-Chlorophenol	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
2-Methylnaphthalene	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
2-Methylphenol	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
2-Nitroaniline	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2-Nitrophenol	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	
3,3'-Dichlorobenzidine	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
3- and 4-Methylphenol Coelution	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
3-Nitroaniline	2.5 U	10	2.5	1	01/19/21 23:54	1/11/21	
4,6-Dinitro-2-methylphenol	20 U	50	20	1	01/19/21 23:54	1/11/21	
4-Bromophenyl Phenyl Ether	1.7 U	10	1.7	1	01/19/21 23:54	1/11/21	
4-Chloro-3-methylphenol	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
4-Chloroaniline	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
4-Chlorophenyl Phenyl Ether	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	
4-Nitroaniline	2.7 U	10	2.7	1	01/19/21 23:54	1/11/21	
4-Nitrophenol	6.4 U	50	6.4	1	01/19/21 23:54	1/11/21	
Acenaphthene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Acenaphthylene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Acetophenone	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Anthracene	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Atrazine	2.1 U	10	2.1	1	01/19/21 23:54	1/11/21	
Benz(a)anthracene	1.6 U	10	1.6	1	01/19/21 23:54	1/11/21	
Benzaldehyde	3.7 U	10	3.7	1	01/19/21 23:54	1/11/21	
Benzo(a)pyrene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
Benzo(b)fluoranthene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
Benzo(g,h,i)perylene	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
Benzo(k)fluoranthene	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Biphenyl	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
2,2'-Oxybis(1-chloropropane)	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Bis(2-chloroethoxy)methane	1.9 U	10	1.9	1	01/19/21 23:54	1/11/21	
Bis(2-chloroethyl) Ether	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Bis(2-ethylhexyl) Phthalate	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100232-03

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Butyl Benzyl Phthalate	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Caprolactam	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
Carbazole	1.6 U	10	1.6	1	01/19/21 23:54	1/11/21	
Chrysene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
Di-n-butyl Phthalate	2.0 U	10	2.0	1	01/19/21 23:54	1/11/21	
Di-n-octyl Phthalate	3.3 U	10	3.3	1	01/19/21 23:54	1/11/21	
Dibenz(a,h)anthracene	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
Dibenzofuran	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Diethyl Phthalate	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
Dimethyl Phthalate	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Fluoranthene	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	
Fluorene	1.3 U	10	1.3	1	01/19/21 23:54	1/11/21	
Hexachlorobenzene	1.6 U	10	1.6	1	01/19/21 23:54	1/11/21	
Hexachlorobutadiene	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
Hexachlorocyclopentadiene	2.2 U	10	2.2	1	01/19/21 23:54	1/11/21	
Hexachloroethane	1.1 U	10	1.1	1	01/19/21 23:54	1/11/21	
Indeno(1,2,3-cd)pyrene	1.8 U	10	1.8	1	01/19/21 23:54	1/11/21	
Isophorone	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
N-Nitrosodi-n-propylamine	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
N-Nitrosodiphenylamine	2.7 U	10	2.7	1	01/19/21 23:54	1/11/21	
Naphthalene	1.2 U	10	1.2	1	01/19/21 23:54	1/11/21	
Nitrobenzene	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	
Pentachlorophenol (PCP)	9.8 U	50	9.8	1	01/19/21 23:54	1/11/21	
Phenanthrene	1.4 U	10	1.4	1	01/19/21 23:54	1/11/21	
Phenol	1.0 U	10	1.0	1	01/19/21 23:54	1/11/21	
Pyrene	1.5 U	10	1.5	1	01/19/21 23:54	1/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	66	35 - 141	01/19/21 23:54	
2-Fluorobiphenyl	58	31 - 118	01/19/21 23:54	
2-Fluorophenol	34	10 - 105	01/19/21 23:54	
Nitrobenzene-d5	55	31 - 110	01/19/21 23:54	
Phenol-d6	24	10 - 107	01/19/21 23:54	
Terphenyl-d14	72	10 - 165	01/19/21 23:54	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/20/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2100232-04					Duplicate Lab Control Sample RQ2100232-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	8270D	50.8	80.1	63	52.0	80.1	65	15-132	3	30
2,3,4,6-Tetrachlorophenol	8270D	63.7	80.0	80	65.6	80.0	82	42-136	2	30
2,4,5-Trichlorophenol	8270D	58.6	80.0	73	59.5	80.0	74	48-134	1	30
2,4,6-Trichlorophenol	8270D	55.1	80.0	69	56.2	80.0	70	44-135	1	30
2,4-Dichlorophenol	8270D	48.4	80.0	61	51.5	80.0	64	48-127	5	30
2,4-Dimethylphenol	8270D	48.4	80.0	60	50.5	80.0	63	59-113	5	30
2,4-Dinitrophenol	8270D	39.3 J	80.0	49	48.2 J	80.0	60	21-154	20	30
2,4-Dinitrotoluene	8270D	62.9	80.0	79	62.2	80.0	78	54-130	1	30
2,6-Dinitrotoluene	8270D	68.5	80.0	86	66.5	80.0	83	51-127	4	30
2-Chloronaphthalene	8270D	48.4	80.0	61	52.9	80.0	66	40-108	8	30
2-Chlorophenol	8270D	40.9	80.0	51	46.6	80.0	58	42-112	13	30
2-Methylnaphthalene	8270D	45.0	80.0	56	51.1	80.0	64	34-102	13	30
2-Methylphenol	8270D	40.8	80.0	51	45.7	80.0	57	47-100	11	30
2-Nitroaniline	8270D	63.9	80.0	80	64.1	80.0	80	52-133	<1	30
2-Nitrophenol	8270D	47.7	80.0	60	50.9	80.0	64	43-131	6	30
3,3'-Dichlorobenzidine	8270D	66.5	80.0	83	65.3	80.0	82	43-126	1	30
3- and 4-Methylphenol Coelution	8270D	41.3	80.0	52	42.0	80.0	52	40-92	<1	30
3-Nitroaniline	8270D	54.6	80.0	68	55.1	80.0	69	42-111	1	30
4,6-Dinitro-2-methylphenol	8270D	56.0	80.0	70	54.9	80.0	69	36-152	1	30
4-Bromophenyl Phenyl Ether	8270D	69.2	80.0	86	71.6	80.0	89	48-114	3	30
4-Chloro-3-methylphenol	8270D	56.3	80.0	70	55.5	80.0	69	52-113	1	30
4-Chloroaniline	8270D	58.1	80.0	73	60.5	80.0	76	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	55.7	80.0	70	59.4	80.0	74	51-107	6	30
4-Nitroaniline	8270D	58.5	80.0	73	54.9	80.0	69	54-133	6	30
4-Nitrophenol	8270D	22.1 J	80.0	28	27.2 J	80.0	34	10-126	19	30
Acenaphthene	8270D	55.7	80.0	70	58.7	80.0	73	52-107	4	30
Acenaphthylene	8270D	57.5	80.0	72	60.2	80.0	75	55-109	4	30
Acetophenone	8270D	98.3	160	61	106	160	66	46-114	8	30
Anthracene	8270D	69.0	80.0	86	68.6	80.0	86	55-116	<1	30
Atrazine	8270D	83.8	80.0	105	96.7	80.0	121	61-164	14	30
Benz(a)anthracene	8270D	64.4	80.0	81	62.6	80.0	78	61-121	4	30
Benzaldehyde	8270D	51.7	80.0	65	57.4	80.0	72	45-132	10	30
Benzo(a)pyrene	8270D	79.1	80.0	99	76.8	80.0	96	44-114	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/20/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2100232-04					Duplicate Lab Control Sample RQ2100232-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	63.7	80.0	80	64.7	80.0	81	62-115	1	30
Benzo(g,h,i)perylene	8270D	68.1	80.0	85	67.4	80.0	84	63-136	1	30
Benzo(k)fluoranthene	8270D	69.7	80.0	87	68.7	80.0	86	49-133	1	30
Biphenyl	8270D	55.3	80.0	69	55.9	80.0	70	39-106	1	30
2,2'-Oxybis(1-chloropropane)	8270D	43.3	80.0	54	53.0	80.0	66	32-122	20	30
Bis(2-chloroethoxy)methane	8270D	58.9	80.0	74	60.5	80.0	76	55-110	3	30
Bis(2-chloroethyl) Ether	8270D	47.3	80.0	59	53.2	80.0	67	46-102	13	30
Bis(2-ethylhexyl) Phthalate	8270D	64.4	80.0	81	62.6	80.0	78	51-132	4	30
Butyl Benzyl Phthalate	8270D	65.0	80.0	81	64.2	80.0	80	41-148	1	30
Caprolactam	8270D	19.2	80.0	24	19.8	80.0	25	10-41	4	30
Carbazole	8270D	76.8	80.0	96	80.3	80.0	100	56-139	4	30
Chrysene	8270D	67.0	80.0	84	65.1	80.0	81	57-118	4	30
Di-n-butyl Phthalate	8270D	79.0	80.0	99	79.3	80.0	99	57-128	<1	30
Di-n-octyl Phthalate	8270D	64.9	80.0	81	65.0	80.0	81	62-124	<1	30
Dibenz(a,h)anthracene	8270D	54.9	80.0	69	53.8	80.0	67	54-135	3	30
Dibenzofuran	8270D	58.4	80.0	73	59.9	80.0	75	55-110	3	30
Diethyl Phthalate	8270D	58.1	80.0	73	56.3	80.0	70	53-113	4	30
Dimethyl Phthalate	8270D	66.9	80.0	84	65.8	80.0	82	51-112	2	30
Fluoranthene	8270D	75.8	80.0	95	75.4	80.0	94	66-127	1	30
Fluorene	8270D	60.9	80.0	76	61.4	80.0	77	54-106	1	30
Hexachlorobenzene	8270D	71.8	80.0	90	72.2	80.0	90	53-123	<1	30
Hexachlorobutadiene	8270D	36.4	80.0	46	43.0	80.0	54	16-95	16	30
Hexachlorocyclopentadiene	8270D	25.4	80.0	32	29.2	80.0	36	10-99	12	30
Hexachloroethane	8270D	25.0	80.0	31	33.5	80.0	42	15-92	30	30
Indeno(1,2,3-cd)pyrene	8270D	65.5	80.0	82	63.5	80.0	79	62-137	4	30
Isophorone	8270D	53.2	80.0	66	55.0	80.0	69	50-116	4	30
N-Nitrosodi-n-propylamine	8270D	53.3	80.0	67	54.3	80.0	68	49-115	1	30
N-Nitrosodiphenylamine	8270D	75.9	80.0	95	77.3	80.0	97	45-123	2	30
Naphthalene	8270D	40.3	80.0	50	50.0	80.0	63	38-99	23	30
Nitrobenzene	8270D	46.2	80.0	58	51.6	80.0	65	46-108	11	30
Pentachlorophenol (PCP)	8270D	75.5	80.0	94	73.2	80.0	91	29-164	3	30
Phenanthrene	8270D	66.3	80.0	83	64.9	80.0	81	58-118	2	30
Phenol	8270D	21.3	80.0	27	23.6	80.0	30	10-113	11	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/20/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec	% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyrene	8270D	68.4	80.0	86	67.0	80.0	84	61-122	2	30



Semivolatile Organic Compounds by GC

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)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
401075-MW-20	R2100149-001	50	47
401075-MW-18	R2100149-002	55	61
401075-DUP-010621	R2100149-005	54	57
Method Blank	RQ2100284-05	63	59
Lab Control Sample	RQ2100284-06	57	58
Duplicate Lab Control Sample	RQ2100284-07	52	53
401075-MW-20 MS	RQ2100284-01	54	60
401075-MW-20 DMS	RQ2100284-02	70	66

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21
Date Analyzed: 01/14/21
Date Extracted: 01/12/21

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name: 401075-MW-20 **Units:** ug/L
Lab Code: R2100149-001 **Basis:** NA
Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			% Rec Limits	RPD	RPD Limit
		Result	RQ2100284-01		Result	RQ2100284-02				
			Spike Amount	% Rec		Spike Amount	% Rec			
4,4'-DDD	0.019 U	0.234	0.364	64	0.309	0.364	85	38-157	28	30
4,4'-DDE	0.019 U	0.228	0.364	63	0.297	0.364	82	10-200	26	30
4,4'-DDT	0.019 U	0.235	0.364	65	0.325	0.364	89	19-154	32*	30
Aldrin	0.019 U	0.222	0.364	61	0.270	0.364	74	26-149	19	30
Dieldrin	0.019 U	0.252	0.364	69	0.335	0.364	92	41-164	28	30
Endosulfan I	0.019 U	0.242	0.364	67	0.319	0.364	88	47-149	27	30
Endosulfan II	0.019 U	0.248	0.364	68	0.338	0.364	93	51-148	30	30
Endosulfan Sulfate	0.019 U	0.236	0.364	65	0.334	0.364	92	10-170	34*	30
Endrin	0.019 U	0.243	0.364	67	0.329	0.364	91	48-165	30	30
Endrin Aldehyde	0.019 U	0.239	0.364	66	0.325	0.364	89	10-94	30	30
Endrin Ketone	0.019 U	0.267	0.364	73	0.367	0.364	101	48-162	32*	30
Heptachlor	0.019 U	0.230	0.364	63	0.288	0.364	79	29-168	22	30
Heptachlor Epoxide	0.019 U	0.253	0.364	69	0.332	0.364	91	29-180	27	30
Methoxychlor	0.019 U	0.250	0.364	69	0.354	0.364	97	38-162	34*	30
alpha-BHC	0.019 U	0.249	0.364	68	0.318	0.364	87	27-154	24	30
alpha-Chlordane	0.019 U	0.240	0.364	66	0.309	0.364	85	35-160	25	30
beta-BHC	0.019 U	0.266	0.364	73	0.345	0.364	95	32-184	26	30
delta-BHC	0.019 U	0.262	0.364	72	0.360	0.364	99	10-182	31*	30
gamma-BHC (Lindane)	0.019 U	0.248	0.364	68	0.320	0.364	88	43-164	26	30
gamma-Chlordane	0.019 U	0.236	0.364	65	0.293	0.364	80	35-165	22	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.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100284-05

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
4,4'-DDE	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
4,4'-DDT	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Aldrin	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Dieldrin	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Endosulfan I	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Endosulfan II	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Endosulfan Sulfate	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Endrin	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Endrin Aldehyde	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Endrin Ketone	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Heptachlor	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Heptachlor Epoxide	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Methoxychlor	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
Toxaphene	0.50 U	0.50	0.50	1	01/14/21 02:11	1/12/21	
alpha-BHC	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
alpha-Chlordane	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
beta-BHC	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
delta-BHC	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
gamma-BHC (Lindane)	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	
gamma-Chlordane	0.020 U	0.050	0.020	1	01/14/21 02:11	1/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 164	01/14/21 02:11	
Tetrachloro-m-xylene	59	10 - 147	01/14/21 02:11	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/14/21

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample RQ2100284-06					Duplicate Lab Control Sample RQ2100284-07					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	0.269	0.400	67	0.235	0.400	59	42-159	14	30
4,4'-DDE	8081B	0.274	0.400	68	0.243	0.400	61	47-147	12	30
4,4'-DDT	8081B	0.288	0.400	72	0.253	0.400	63	41-149	13	30
Aldrin	8081B	0.246	0.400	62	0.227	0.400	57	22-137	8	30
Dieldrin	8081B	0.288	0.400	72	0.251	0.400	63	52-144	14	30
Endosulfan I	8081B	0.273	0.400	68	0.241	0.400	60	52-136	13	30
Endosulfan II	8081B	0.290	0.400	72	0.236	0.400	59	57-138	20	30
Endosulfan Sulfate	8081B	0.273	0.400	68	0.212	0.400	53	34-156	25	30
Endrin	8081B	0.274	0.400	69	0.235	0.400	59	56-143	16	30
Endrin Aldehyde	8081B	0.261	0.400	65	0.216	0.400	54	10-166	19	30
Endrin Ketone	8081B	0.308	0.400	77	0.247	0.400	62	59-143	22	30
Heptachlor	8081B	0.258	0.400	64	0.234	0.400	58	32-141	10	30
Heptachlor Epoxide	8081B	0.283	0.400	71	0.250	0.400	63	51-143	12	30
Methoxychlor	8081B	0.294	0.400	73	0.245	0.400	61	56-149	18	30
alpha-BHC	8081B	0.274	0.400	69	0.243	0.400	61	36-151	12	30
alpha-Chlordane	8081B	0.273	0.400	68	0.243	0.400	61	50-139	12	30
beta-BHC	8081B	0.299	0.400	75	0.258	0.400	64	55-149	15	30
delta-BHC	8081B	0.302	0.400	75	0.249	0.400	62	29-159	19	30
gamma-BHC (Lindane)	8081B	0.273	0.400	68	0.240	0.400	60	41-149	13	30
gamma-Chlordane	8081B	0.291	0.400	73	0.253	0.400	63	50-140	14	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
401075-MW-20	R2100149-001	60	47
401075-MW-18	R2100149-002	63	59
401075-DUP-010621	R2100149-005	63	54
Method Blank	RQ2100284-05	76	57
Lab Control Sample	RQ2100284-06	77	64
Duplicate Lab Control Sample	RQ2100284-07	79	62
401075-MW-20 MS	RQ2100284-03	69	63
401075-MW-20 DMS	RQ2100284-04	67	62

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: 01/06/21
Date Received: 01/07/21
Date Analyzed: 01/14/21
Date Extracted: 01/12/21

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name: 401075-MW-20
Lab Code: R2100149-001
Analysis Method: 8082A
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2100284-03				Duplicate Matrix Spike RQ2100284-04					
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	0.46 U	3.60	3.64	99	3.46	3.64	95	32-142	4	30
Aroclor 1260	0.46 U	2.92	3.64	80	3.14	3.64	86	28-142	7	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.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100284-05

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	1.0	0.50	1	01/14/21 06:00	1/12/21	
Aroclor 1221	1.0 U	2.0	1.0	1	01/14/21 06:00	1/12/21	
Aroclor 1232	0.50 U	1.0	0.50	1	01/14/21 06:00	1/12/21	
Aroclor 1242	0.50 U	1.0	0.50	1	01/14/21 06:00	1/12/21	
Aroclor 1248	0.50 U	1.0	0.50	1	01/14/21 06:00	1/12/21	
Aroclor 1254	0.50 U	1.0	0.50	1	01/14/21 06:00	1/12/21	
Aroclor 1260	0.50 U	1.0	0.50	1	01/14/21 06:00	1/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	10 - 152	01/14/21 06:00	
Tetrachloro-m-xylene	57	14 - 129	01/14/21 06:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/14/21

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2100284-06					RQ2100284-07					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	3.63	4.00	91	3.88	4.00	97	49-123	7	30
Aroclor 1260	8082A	3.64	4.00	91	3.87	4.00	97	30-120	6	30



Metals

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

METALS

-3-

BLANKS

Contract: R2100149

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 401075-MW-20

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		M
		1	2	3						
Aluminum	23.00 U	23.00 U	23.00 U	23.00 U			23.000	U		P
Antimony	4.70 U	4.70 U	4.70 U	4.70 U			4.700	U		P
Arsenic	5.50 U	5.50 U	5.50 U	5.50 U			5.500	U		P
Barium	3.00 U	3.00 U	3.00 U	3.00 U			3.000	U		P
Beryllium	0.13 U	0.13 U	0.13 U	0.13 U			0.130	U		P
Cadmium	0.35 U	0.35 U	0.35 U	0.35 U			0.350	U		P
Mercury	0.077 U	0.077 U	0.077 U	0.077 U			0.077	U		CV
Calcium	220.00 U	220.00 U	220.00 U	220.00 U			220.000	U		P
Chromium	0.59 U	0.59 U	0.59 U	0.59 U			0.590	U		P
Cobalt	0.89 U	0.89 U	0.89 U	0.89 U			0.890	U		P
Copper	3.90 U	3.90 U	3.90 U	3.90 U			3.900	U		P
Iron	61.00 U	61.00 U	61.00 U	61.00 U			61.000	U		P
Lead	2.10 U	2.10 U	2.10 U	2.10 U			2.100	U		P
Magnesium	29.00 U	29.00 U	29.00 U	29.00 U			29.000	U		P
Manganese	3.70 U	3.70 U	3.70 U	3.70 U			3.700	U		P
Nickel	2.60 U	2.60 U	2.60 U	2.60 U			2.600	U		P
Potassium	200.00 U	200.00 U	200.00 U	200.00 U			200.000	U		P
Selenium	6.40 U	6.40 U	6.40 U	6.40 U			6.400	U		P
Silver	0.57 U	0.57 U	0.57 U	0.57 U			0.570	U		P
Sodium	130.00 U	130.00 U	130.00 U	147.40 J			130.000	U		P
Thallium	6.60 U	6.60 U	6.60 U	6.60 U			6.600	U		P
Vanadium	0.67 U	0.67 U	0.67 U	0.67 U			0.670	U		P
Zinc	9.40 U	9.40 U	9.40 U	9.40 U			9.400	U		P

Comments:

METALS

-3-

BLANKS

Contract: R2100149

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 401075-MW-20

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			23.00	U	23.00	U	23.00	U			P
Antimony			4.70	U	4.70	U	4.70	U			P
Arsenic			5.50	U	5.50	U	5.50	U			P
Barium			3.00	U	3.00	U	3.00	U			P
Beryllium			0.13	U	0.13	U	0.13	U			P
Cadmium			0.35	U	0.35	U	0.35	U			P
Mercury			0.077	U							CV
Calcium			220.00	U	220.00	U	220.00	U			P
Chromium			0.59	U	0.59	U	0.59	U			P
Cobalt			0.89	U	0.89	U	0.89	U			P
Copper			3.90	U	3.90	U	3.90	U			P
Iron			61.00	U	61.00	U	61.00	U			P
Lead			2.10	U	2.10	U	2.10	U			P
Magnesium			29.00	U	29.00	U	29.00	U			P
Manganese			3.70	U	3.70	U	3.70	U			P
Nickel			2.60	U	2.60	U	2.60	U			P
Potassium			200.00	U	200.00	U	200.00	U			P
Selenium			6.40	U	6.40	U	6.40	U			P
Silver			0.57	U	0.57	U	0.57	U			P
Sodium			130.00	U	130.00	U	130.00	U			P
Thallium			6.60	U	6.60	U	6.60	U			P
Vanadium			0.67	U	0.67	U	0.67	U			P
Zinc			9.40	U	9.40	U	9.40	U			P

Comments:

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

401075-MW-20S

Contract: R2100149

Lab Code: Case No.: SAS No.: SDG NO.: 401075-MW-20

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	1990.00	23.00 U	2000.0	100		P
Antimony	75 - 125	492.00	4.70 U	500.0	98		P
Arsenic	75 - 125	41.50	5.50 U	40.0	104		P
Barium	75 - 125	2140.00	169.00	2000.0	99		P
Beryllium	75 - 125	49.20	0.13 U	50.0	98		P
Cadmium	75 - 125	48.10	0.35 U	50.0	96		P
Mercury	75 - 125	0.798	0.077 U	1.00	80		CV
Calcium		106000.00	104000.00	2000.0	100		P
Chromium	75 - 125	193.00	0.59 U	200.0	96		P
Cobalt	75 - 125	490.00	0.89 U	500.0	98		P
Copper	75 - 125	259.00	3.90 U	250.0	104		P
Iron	75 - 125	2730.00	1740.00	1000.0	99		P
Lead	75 - 125	489.00	2.10 U	500.0	98		P
Magnesium		46400.00	44100.00	2000.0	115		P
Manganese	75 - 125	1490.00	1010.00	500.0	96		P
Nickel	75 - 125	483.00	2.60 U	500.0	97		P
Potassium	75 - 125	32700.00	12400.00	20000.0	102		P
Selenium	75 - 125	975.00	6.40 U	1010.0	97		P
Silver	75 - 125	50.30	0.57 U	50.0	101		P
Sodium		158000.00	141000.00	20000.0	85		P
Thallium	75 - 125	2070.00	6.60 U	2000.0	104		P
Vanadium	75 - 125	500.00	0.67 U	500.0	100		P
Zinc	75 - 125	493.00	9.40 U	500.0	99		P

Comments:

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

401075-MW-20SD

Contract: R2100149

Lab Code: Case No.: SAS No.: SDG NO.: 401075-MW-20

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	1990.00	23.00 U	2000.0	100		P
Antimony	75 - 125	494.00	4.70 U	500.0	99		P
Arsenic	75 - 125	40.90	5.50 U	40.0	102		P
Barium	75 - 125	2150.00	169.00	2000.0	99		P
Beryllium	75 - 125	49.30	0.13 U	50.0	99		P
Cadmium	75 - 125	48.00	0.35 U	50.0	96		P
Mercury	75 - 125	0.799	0.077 U	1.00	80		CV
Calcium		105000.00	104000.00	2000.0	50		P
Chromium	75 - 125	193.00	0.59 U	200.0	96		P
Cobalt	75 - 125	489.00	0.89 U	500.0	98		P
Copper	75 - 125	258.00	3.90 U	250.0	103		P
Iron	75 - 125	2720.00	1740.00	1000.0	98		P
Lead	75 - 125	489.00	2.10 U	500.0	98		P
Magnesium		46200.00	44100.00	2000.0	105		P
Manganese	75 - 125	1490.00	1010.00	500.0	96		P
Nickel	75 - 125	485.00	2.60 U	500.0	97		P
Potassium	75 - 125	32700.00	12400.00	20000.0	102		P
Selenium	75 - 125	969.00	6.40 U	1010.0	96		P
Silver	75 - 125	50.50	0.57 U	50.0	101		P
Sodium		158000.00	141000.00	20000.0	85		P
Thallium	75 - 125	2070.00	6.60 U	2000.0	104		P
Vanadium	75 - 125	499.00	0.67 U	500.0	100		P
Zinc	75 - 125	490.00	9.40 U	500.0	98		P

Comments:

METALS
-6-
DUPLICATES

SAMPLE NO.

401075-MW-20SD

Contract: R2100149

Lab Code: Case No.: SAS No.: SDG NO.: 401075-MW-20

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		1990.00		1990.00		0		P
Antimony		492.00		494.00		0		P
Arsenic		41.50		40.90		1		P
Barium		2140.00		2150.00		0		P
Beryllium		49.20		49.30		0		P
Cadmium		48.10		48.00		0		P
Mercury		0.798		0.799		0		CV
Calcium		106000.00		105000.00		1		P
Chromium		193.00		193.00		0		P
Cobalt		490.00		489.00		0		P
Copper		259.00		258.00		0		P
Iron		2730.00		2720.00		0		P
Lead		489.00		489.00		0		P
Magnesium		46400.00		46200.00		0		P
Manganese		1490.00		1490.00		0		P
Nickel		483.00		485.00		0		P
Potassium		32700.00		32700.00		0		P
Selenium		975.00		969.00		1		P
Silver		50.30		50.50		0		P
Sodium		158000.00		158000.00		0		P
Thallium		2070.00		2070.00		0		P
Vanadium		500.00		499.00		0		P
Zinc		493.00		490.00		1		P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: **R2100149**

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: **401075-MW-20**

Solid LCS Source: _____

Aqueous LCS Source: **CPI**

Analyte	Aqueous (ug/L			Solid (mg/K					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	2000	1960	98						
Antimony	500	483	97						
Arsenic	40	39	98						
Barium	2000	2020	101						
Beryllium	50	50	100						
Cadmium	50	50	100						
Mercury	1.000	1.010	101						
Calcium	2000	2030	102						
Chromium	200	197	98						
Cobalt	500	500	100						
Copper	250	245	98						
Iron	1000	988	99						
Lead	500	496	99						
Magnesium	2000	1920	96						
Manganese	500	479	96						
Nickel	500	498	100						
Potassium	20000	19300	96						
Selenium	1010	958	95						
Silver	50	48	96						
Sodium	20000	19900	100						
Thallium	2000	1880	94						
Vanadium	500	499	100						
Zinc	500	493	99						

Comments: _____



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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2100149-MB

Service Request: R2100149
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	1.8 U	mg/L	2.0	1.8	1	01/10/21 04:21	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	0.5 U	mg/L	1.0	0.5	1	01/14/21 18:18	
Nitrate as Nitrogen	9056A	0.02 U	mg/L	0.10	0.02	1	01/07/21 12:54	
Nitrite as Nitrogen	9056A	0.02 U	mg/L	0.10	0.02	1	01/07/21 12:54	
Sulfate	9056A	0.04 U	mg/L	0.20	0.04	1	01/07/21 12:54	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100149
Date Analyzed: 01/07/21 - 01/14/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2100149-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	20.8	20.0	104	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.13	10.0	91	80-121
Nitrate as Nitrogen	9056A	0.974	1.00	97	80-120
Nitrite as Nitrogen	9056A	1.00	1.00	100	80-120
Sulfate	9056A	1.97	2.00	99	80-120



January 25, 2021

Service Request No:R2100209

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 January 08, 2021
For your reference, these analyses have been assigned our service request number **R2100209**.

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



Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners
Sample Matrix: Water

Service Request: R2100209
Date Received: 01/08/2021

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:

Five water samples were received for analysis at ALS Environmental on 01/08/2021. 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.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 01/19/2021: 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, 01/19/2021: 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, 01/20/2021: 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, 01/20/2021: 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.

Approved by _____

Date 01/25/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: 401075-MW-12	Lab ID: R2100209-001
--------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	8.0		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Methane, Dissolved	13		0.75	1.1	ug/L	RSK 175

CLIENT ID: 401075-MW-12b	Lab ID: R2100209-002
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	64		18	20	mg/L	SM 2320 B-1997 (2011)
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	9056A
Nitrite as Nitrogen	0.2	J	0.2	1.0	mg/L	9056A
Sulfate	4.6		0.4	2.0	mg/L	9056A

CLIENT ID: 401075-MW-01	Lab ID: R2100209-003
--------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Chloroform	0.54	J	0.48	10	ug/L	8260C
Tetrachloroethene (PCE)	230		0.42	10	ug/L	8260C
Trichloroethene (TCE)	58		0.40	10	ug/L	8260C
cis-1,2-Dichloroethene	47		0.46	10	ug/L	8260C
trans-1,2-Dichloroethene	3.1	J	0.40	10	ug/L	8260C

CLIENT ID: 401075-FB-010721	Lab ID: R2100209-005
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
2-Butanone (MEK)	1.3	J	0.78	10	ug/L	8260C
Acetone	13		5.0	10	ug/L	8260C
Benzene	0.39	J	0.20	5.0	ug/L	8260C
Ethylbenzene	0.64	J	0.20	5.0	ug/L	8260C
Toluene	6.3		0.20	5.0	ug/L	8260C
Xylenes, Total	3.8	J	0.23	5.0	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)
Project: Admiral Cleaners/1602504/0002

Service Request:R2100209

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2100209-001	401075-MW-12	1/6/2021	1520
R2100209-002	401075-MW-12b	1/7/2021	1055
R2100209-003	401075-MW-01	1/6/2021	1535
R2100209-004	401075-TB-12222020	1/7/2021	
R2100209-005	401075-FB-010721	1/7/2021	1140



Cooler Receipt and Preservation Check Form

R2100209

5

EA Engineering, Science, and Technology
Admiral CleanersProject/Client: EA Folder Number: _____Cooler received on 1/8/21 by: A COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials <u>Alk, O</u> Sulfide have sig* bubbles?	<u>Y</u> NA NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 1/8/21 Time: 1015 ID: IR#7 R#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.9</u>						
Within 0-6°C?	<u>Y</u> 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 e on 1/8/21 at 1020
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 1/8/21 Time: 1550 by: AW

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
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?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO 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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>Client label</u>					

**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: Client label

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: ALPC Secondary Review: AW

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

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: EA Engineering, Science, and Technology
Project: Admiral Cleaners/1602504/0002

Service Request: R2100209

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2100209-001.01	RSK 175				
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
		1/14/2021	1101	In Lab / FNAEGLER	
		1/14/2021	1112	R-001-S02 / FNAEGLER	
R2100209-001.02					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
R2100209-001.03					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
R2100209-001.04	SM 5310 C-2000(2011)				
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1958	R-017 / DWARD	
R2100209-001.05					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1958	R-017 / DWARD	
R2100209-001.06					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1958	R-017 / DWARD	
R2100209-001.07					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
R2100209-001.08	8260C				
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
R2100209-001.09					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
		1/19/2021	1454	In Lab / KRUEST	
R2100209-001.09					
		1/19/2021	1531	R-001-S10 / KRUEST	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: EA Engineering, Science, and Technology
Project: Admiral Cleaners/1602504/0002

Service Request: R2100209

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
R2100209-002.10					
	9056A,9056A,9056A				
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1958	R-017 / DWARD	
		1/8/2021	1959	RT000386 / DWARD	
R2100209-002.19					
	SM 2320 B-1997(2011)				
		1/8/2021	1557	SMO / GLAFORCE	
		1/13/2021	1316	RT000686 / GLAFORCE	
		1/13/2021	1318	R-014 / GLAFORCE	
R2100209-003.01					
	8260C				
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
		1/19/2021	1455	In Lab / KRUEST	
		1/19/2021	1531	R-001-S10 / KRUEST	
		1/20/2021	1148	In Lab / KRUEST	
		1/20/2021	1207	R-001-S10 / KRUEST	
R2100209-004.01					
	8260C				
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
		1/19/2021	1454	In Lab / KRUEST	
		1/19/2021	1531	R-001-S10 / KRUEST	
R2100209-004.02					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
R2100209-004.03					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
R2100209-005.01					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
		1/19/2021	1454	In Lab / KRUEST	
		1/19/2021	1531	R-001-S10 / KRUEST	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: EA Engineering, Science, and Technology
Project: Admiral Cleaners/1602504/0002

Service Request: R2100209

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2100209-005.02	8260C				
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	
		1/20/2021	1148	In Lab / KRUEST	
		1/20/2021	1207	R-001-S10 / KRUEST	
R2100209-005.03					
		1/8/2021	1557	SMO / GLAFORCE	
		1/8/2021	1559	R-001 / GLAFORCE	



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.	+	Correlation coefficient for MSA is <0.995.
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/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
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.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	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 Certifications¹

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 laboratory's 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.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002

Service Request: R2100209

Sample Name: 401075-MW-12
Lab Code: R2100209-001
Sample Matrix: Water

Date Collected: 01/6/21
Date Received: 01/8/21

Analysis Method
8260C
RSK 175
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
KRUEST
FNAEGLER
SMEDBURY

Sample Name: 401075-MW-12b
Lab Code: R2100209-002
Sample Matrix: Water

Date Collected: 01/7/21
Date Received: 01/8/21

Analysis Method
9056A
SM 2320 B-1997(2011)

Extracted/Digested By

Analyzed By
KWONG
KWONG

Sample Name: 401075-MW-01
Lab Code: R2100209-003
Sample Matrix: Water

Date Collected: 01/6/21
Date Received: 01/8/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: 401075-TB-12222020
Lab Code: R2100209-004
Sample Matrix: Water

Date Collected: 01/7/21
Date Received: 01/8/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002

Service Request: R2100209

Sample Name: 401075-FB-010721
Lab Code: R2100209-005
Sample Matrix: Water

Date Collected: 01/7/21
Date Received: 01/8/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
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

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/06/21 15:20
Date Received: 01/08/21 10:00

Sample Name: 401075-MW-12
Lab Code: R2100209-001

Units: ug/L
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	01/19/21 19:42	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/19/21 19:42	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/19/21 19:42	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 19:42	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 19:42	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/19/21 19:42	
2-Hexanone	0.20 U	10	0.20	1	01/19/21 19:42	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/19/21 19:42	
Acetone	5.0 U	10	5.0	1	01/19/21 19:42	
Benzene	0.20 U	5.0	0.20	1	01/19/21 19:42	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/19/21 19:42	
Bromoform	0.25 U	5.0	0.25	1	01/19/21 19:42	
Bromomethane	0.70 U	5.0	0.70	1	01/19/21 19:42	
Carbon Disulfide	0.42 U	10	0.42	1	01/19/21 19:42	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/19/21 19:42	
Chlorobenzene	0.20 U	5.0	0.20	1	01/19/21 19:42	
Chloroethane	0.23 U	5.0	0.23	1	01/19/21 19:42	
Chloroform	0.24 U	5.0	0.24	1	01/19/21 19:42	
Chloromethane	0.28 U	5.0	0.28	1	01/19/21 19:42	
Cyclohexane	0.26 U	10	0.26	1	01/19/21 19:42	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/19/21 19:42	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/19/21 19:42	
Dichloromethane	0.65 U	5.0	0.65	1	01/19/21 19:42	
Ethylbenzene	0.20 U	5.0	0.20	1	01/19/21 19:42	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/19/21 19:42	
Methyl Acetate	0.33 U	10	0.33	1	01/19/21 19:42	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/19/21 19:42	
Methylcyclohexane	0.20 U	10	0.20	1	01/19/21 19:42	
Styrene	0.20 U	5.0	0.20	1	01/19/21 19:42	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/19/21 19:42	
Toluene	0.20 U	5.0	0.20	1	01/19/21 19:42	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/19/21 19:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/06/21 15:20
Date Received: 01/08/21 10:00

Sample Name: 401075-MW-12
Lab Code: R2100209-001

Units: ug/L
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	01/19/21 19:42	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/19/21 19:42	
Xylenes, Total	0.23 U	5.0	0.23	1	01/19/21 19:42	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/19/21 19:42	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/19/21 19:42	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/19/21 19:42	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/19/21 19:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/19/21 19:42	
Dibromofluoromethane	100	80 - 116	01/19/21 19:42	
Toluene-d8	102	87 - 121	01/19/21 19:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/06/21 15:35
Date Received: 01/08/21 10:00

Sample Name: 401075-MW-01
Lab Code: R2100209-003

Units: ug/L
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)	0.40 U	10	0.40	2	01/20/21 13:19	
1,1,2,2-Tetrachloroethane	0.40 U	10	0.40	2	01/20/21 13:19	
1,1,2-Trichloroethane	0.40 U	10	0.40	2	01/20/21 13:19	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.40 U	10	0.40	2	01/20/21 13:19	
1,1-Dichloroethane (1,1-DCA)	0.40 U	10	0.40	2	01/20/21 13:19	
1,1-Dichloroethene (1,1-DCE)	0.40 U	10	0.40	2	01/20/21 13:19	
1,2,4-Trichlorobenzene	0.68 U	10	0.68	2	01/20/21 13:19	
1,2-Dibromo-3-chloropropane (DBCP)	0.90 U	10	0.90	2	01/20/21 13:19	
1,2-Dibromoethane	0.40 U	10	0.40	2	01/20/21 13:19	
1,2-Dichlorobenzene	0.40 U	10	0.40	2	01/20/21 13:19	
1,2-Dichloroethane	0.40 U	10	0.40	2	01/20/21 13:19	
1,2-Dichloropropane	0.40 U	10	0.40	2	01/20/21 13:19	
1,3-Dichlorobenzene	0.40 U	10	0.40	2	01/20/21 13:19	
1,4-Dichlorobenzene	0.40 U	10	0.40	2	01/20/21 13:19	
2-Butanone (MEK)	1.6 U	20	1.6	2	01/20/21 13:19	
2-Hexanone	0.40 U	20	0.40	2	01/20/21 13:19	
4-Methyl-2-pentanone	0.40 U	20	0.40	2	01/20/21 13:19	
Acetone	10 U	20	10	2	01/20/21 13:19	
Benzene	0.40 U	10	0.40	2	01/20/21 13:19	
Bromodichloromethane	0.40 U	10	0.40	2	01/20/21 13:19	
Bromoform	0.50 U	10	0.50	2	01/20/21 13:19	
Bromomethane	1.4 U	10	1.4	2	01/20/21 13:19	
Carbon Disulfide	0.84 U	20	0.84	2	01/20/21 13:19	
Carbon Tetrachloride	0.68 U	10	0.68	2	01/20/21 13:19	
Chlorobenzene	0.40 U	10	0.40	2	01/20/21 13:19	
Chloroethane	0.46 U	10	0.46	2	01/20/21 13:19	
Chloroform	0.54 J	10	0.48	2	01/20/21 13:19	
Chloromethane	0.56 U	10	0.56	2	01/20/21 13:19	
Cyclohexane	0.52 U	20	0.52	2	01/20/21 13:19	
Dibromochloromethane	0.40 U	10	0.40	2	01/20/21 13:19	
Dichlorodifluoromethane (CFC 12)	0.42 U	10	0.42	2	01/20/21 13:19	
Dichloromethane	1.3 U	10	1.3	2	01/20/21 13:19	
Ethylbenzene	0.40 U	10	0.40	2	01/20/21 13:19	
Isopropylbenzene (Cumene)	0.40 U	10	0.40	2	01/20/21 13:19	
Methyl Acetate	0.66 U	20	0.66	2	01/20/21 13:19	
Methyl tert-Butyl Ether	0.40 U	10	0.40	2	01/20/21 13:19	
Methylcyclohexane	0.40 U	20	0.40	2	01/20/21 13:19	
Styrene	0.40 U	10	0.40	2	01/20/21 13:19	
Tetrachloroethene (PCE)	230	10	0.42	2	01/20/21 13:19	
Toluene	0.40 U	10	0.40	2	01/20/21 13:19	
Trichloroethene (TCE)	58	10	0.40	2	01/20/21 13:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/06/21 15:35
Date Received: 01/08/21 10:00

Sample Name: 401075-MW-01
Lab Code: R2100209-003

Units: ug/L
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)	0.48 U	10	0.48	2	01/20/21 13:19	
Vinyl Chloride	0.40 U	10	0.40	2	01/20/21 13:19	
Xylenes, Total	0.46 U	10	0.46	2	01/20/21 13:19	
cis-1,2-Dichloroethene	47	10	0.46	2	01/20/21 13:19	
cis-1,3-Dichloropropene	0.40 U	10	0.40	2	01/20/21 13:19	
trans-1,2-Dichloroethene	3.1 J	10	0.40	2	01/20/21 13:19	
trans-1,3-Dichloropropene	0.46 U	10	0.46	2	01/20/21 13:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	01/20/21 13:19	
Dibromofluoromethane	99	80 - 116	01/20/21 13:19	
Toluene-d8	99	87 - 121	01/20/21 13:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/07/21
Date Received: 01/08/21 10:00

Sample Name: 401075-TB-12222020
Lab Code: R2100209-004

Units: ug/L
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	01/19/21 18:59	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/19/21 18:59	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/19/21 18:59	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 18:59	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 18:59	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/19/21 18:59	
2-Hexanone	0.20 U	10	0.20	1	01/19/21 18:59	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/19/21 18:59	
Acetone	5.0 U	10	5.0	1	01/19/21 18:59	
Benzene	0.20 U	5.0	0.20	1	01/19/21 18:59	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/19/21 18:59	
Bromoform	0.25 U	5.0	0.25	1	01/19/21 18:59	
Bromomethane	0.70 U	5.0	0.70	1	01/19/21 18:59	
Carbon Disulfide	0.42 U	10	0.42	1	01/19/21 18:59	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/19/21 18:59	
Chlorobenzene	0.20 U	5.0	0.20	1	01/19/21 18:59	
Chloroethane	0.23 U	5.0	0.23	1	01/19/21 18:59	
Chloroform	0.24 U	5.0	0.24	1	01/19/21 18:59	
Chloromethane	0.28 U	5.0	0.28	1	01/19/21 18:59	
Cyclohexane	0.26 U	10	0.26	1	01/19/21 18:59	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/19/21 18:59	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/19/21 18:59	
Dichloromethane	0.65 U	5.0	0.65	1	01/19/21 18:59	
Ethylbenzene	0.20 U	5.0	0.20	1	01/19/21 18:59	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/19/21 18:59	
Methyl Acetate	0.33 U	10	0.33	1	01/19/21 18:59	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/19/21 18:59	
Methylcyclohexane	0.20 U	10	0.20	1	01/19/21 18:59	
Styrene	0.20 U	5.0	0.20	1	01/19/21 18:59	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/19/21 18:59	
Toluene	0.20 U	5.0	0.20	1	01/19/21 18:59	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/19/21 18:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/07/21
Date Received: 01/08/21 10:00

Sample Name: 401075-TB-12222020
Lab Code: R2100209-004

Units: ug/L
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	01/19/21 18:59	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/19/21 18:59	
Xylenes, Total	0.23 U	5.0	0.23	1	01/19/21 18:59	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/19/21 18:59	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/19/21 18:59	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/19/21 18:59	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/19/21 18:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	01/19/21 18:59	
Dibromofluoromethane	101	80 - 116	01/19/21 18:59	
Toluene-d8	103	87 - 121	01/19/21 18:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/07/21 11:40
Date Received: 01/08/21 10:00

Sample Name: 401075-FB-010721
Lab Code: R2100209-005

Units: ug/L
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	01/20/21 12:57	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/20/21 12:57	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/20/21 12:57	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/20/21 12:57	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/20/21 12:57	
2-Butanone (MEK)	1.3 J	10	0.78	1	01/20/21 12:57	
2-Hexanone	0.20 U	10	0.20	1	01/20/21 12:57	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/20/21 12:57	
Acetone	13	10	5.0	1	01/20/21 12:57	
Benzene	0.39 J	5.0	0.20	1	01/20/21 12:57	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/20/21 12:57	
Bromoform	0.25 U	5.0	0.25	1	01/20/21 12:57	
Bromomethane	0.70 U	5.0	0.70	1	01/20/21 12:57	
Carbon Disulfide	0.42 U	10	0.42	1	01/20/21 12:57	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/20/21 12:57	
Chlorobenzene	0.20 U	5.0	0.20	1	01/20/21 12:57	
Chloroethane	0.23 U	5.0	0.23	1	01/20/21 12:57	
Chloroform	0.24 U	5.0	0.24	1	01/20/21 12:57	
Chloromethane	0.28 U	5.0	0.28	1	01/20/21 12:57	
Cyclohexane	0.26 U	10	0.26	1	01/20/21 12:57	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/20/21 12:57	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/20/21 12:57	
Dichloromethane	0.65 U	5.0	0.65	1	01/20/21 12:57	
Ethylbenzene	0.64 J	5.0	0.20	1	01/20/21 12:57	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/20/21 12:57	
Methyl Acetate	0.33 U	10	0.33	1	01/20/21 12:57	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/20/21 12:57	
Methylcyclohexane	0.20 U	10	0.20	1	01/20/21 12:57	
Styrene	0.20 U	5.0	0.20	1	01/20/21 12:57	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/20/21 12:57	
Toluene	6.3	5.0	0.20	1	01/20/21 12:57	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/20/21 12:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/07/21 11:40
Date Received: 01/08/21 10:00

Sample Name: 401075-FB-010721
Lab Code: R2100209-005

Units: ug/L
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	01/20/21 12:57	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/20/21 12:57	
Xylenes, Total	3.8 J	5.0	0.23	1	01/20/21 12:57	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/20/21 12:57	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/20/21 12:57	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/20/21 12:57	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/20/21 12:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	01/20/21 12:57	
Dibromofluoromethane	97	80 - 116	01/20/21 12:57	
Toluene-d8	99	87 - 121	01/20/21 12:57	



Volatile Organic Compounds by GC

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: 01/06/21 15:20
Date Received: 01/08/21 10:00

Sample Name: 401075-MW-12
Lab Code: R2100209-001

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	0.17 U	1.0	0.17	1	01/14/21 12:16	
Ethylene	0.35 U	1.0	0.35	1	01/14/21 12:16	
Methane	13	1.1	0.75	1	01/14/21 12:16	
Propane	0.28 U	1.0	0.28	1	01/14/21 12:16	



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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water
Sample Name: 401075-MW-12
Lab Code: R2100209-001

Service Request: R2100209
Date Collected: 01/06/21 15:20
Date Received: 01/08/21 10:00
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.0	mg/L	1.0	0.5	1	01/16/21 18:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Sample Name: 401075-MW-12b
Lab Code: R2100209-002

Service Request: R2100209
Date Collected: 01/07/21 10:55
Date Received: 01/08/21 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	64	mg/L	20	18	10	01/10/21 05:40	
Nitrate as Nitrogen	9056A	0.4 J	mg/L	1.0	0.2	10	01/08/21 17:23	
Nitrite as Nitrogen	9056A	0.2 J	mg/L	1.0	0.2	10	01/08/21 17:23	
Sulfate	9056A	4.6	mg/L	2.0	0.4	10	01/08/21 17:23	



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

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)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
401075-MW-12	R2100209-001	95	100	102
401075-MW-01	R2100209-003	92	99	99
401075-TB-12222020	R2100209-004	97	101	103
401075-FB-010721	R2100209-005	94	97	99
Method Blank	RQ2100515-06	93	97	100
Method Blank	RQ2100556-04	90	94	96
Lab Control Sample	RQ2100515-03	94	101	99
Lab Control Sample	RQ2100556-03	97	99	98

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100515-06

Units: ug/L
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	01/19/21 13:09	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/19/21 13:09	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/19/21 13:09	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/19/21 13:09	
2-Hexanone	0.20 U	10	0.20	1	01/19/21 13:09	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/19/21 13:09	
Acetone	5.0 U	10	5.0	1	01/19/21 13:09	
Benzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
Bromoform	0.25 U	5.0	0.25	1	01/19/21 13:09	
Bromomethane	0.70 U	5.0	0.70	1	01/19/21 13:09	
Carbon Disulfide	0.42 U	10	0.42	1	01/19/21 13:09	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/19/21 13:09	
Chlorobenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Chloroethane	0.23 U	5.0	0.23	1	01/19/21 13:09	
Chloroform	0.24 U	5.0	0.24	1	01/19/21 13:09	
Chloromethane	0.28 U	5.0	0.28	1	01/19/21 13:09	
Cyclohexane	0.26 U	10	0.26	1	01/19/21 13:09	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/19/21 13:09	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/19/21 13:09	
Dichloromethane	0.65 U	5.0	0.65	1	01/19/21 13:09	
Ethylbenzene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/19/21 13:09	
Methyl Acetate	0.33 U	10	0.33	1	01/19/21 13:09	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/19/21 13:09	
Methylcyclohexane	0.20 U	10	0.20	1	01/19/21 13:09	
Styrene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/19/21 13:09	
Toluene	0.20 U	5.0	0.20	1	01/19/21 13:09	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/19/21 13:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100515-06

Units: ug/L
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	01/19/21 13:09	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/19/21 13:09	
Xylenes, Total	0.23 U	5.0	0.23	1	01/19/21 13:09	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/19/21 13:09	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/19/21 13:09	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/19/21 13:09	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/19/21 13:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/19/21 13:09	
Dibromofluoromethane	97	80 - 116	01/19/21 13:09	
Toluene-d8	100	87 - 121	01/19/21 13:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100556-04

Units: ug/L
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	01/20/21 12:03	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	01/20/21 12:03	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	01/20/21 12:03	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	01/20/21 12:03	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	01/20/21 12:03	
2-Butanone (MEK)	0.78 U	10	0.78	1	01/20/21 12:03	
2-Hexanone	0.20 U	10	0.20	1	01/20/21 12:03	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	01/20/21 12:03	
Acetone	5.0 U	10	5.0	1	01/20/21 12:03	
Benzene	0.20 U	5.0	0.20	1	01/20/21 12:03	
Bromodichloromethane	0.20 U	5.0	0.20	1	01/20/21 12:03	
Bromoform	0.25 U	5.0	0.25	1	01/20/21 12:03	
Bromomethane	0.70 U	5.0	0.70	1	01/20/21 12:03	
Carbon Disulfide	0.42 U	10	0.42	1	01/20/21 12:03	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	01/20/21 12:03	
Chlorobenzene	0.20 U	5.0	0.20	1	01/20/21 12:03	
Chloroethane	0.23 U	5.0	0.23	1	01/20/21 12:03	
Chloroform	0.24 U	5.0	0.24	1	01/20/21 12:03	
Chloromethane	0.28 U	5.0	0.28	1	01/20/21 12:03	
Cyclohexane	0.26 U	10	0.26	1	01/20/21 12:03	
Dibromochloromethane	0.20 U	5.0	0.20	1	01/20/21 12:03	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	01/20/21 12:03	
Dichloromethane	0.65 U	5.0	0.65	1	01/20/21 12:03	
Ethylbenzene	0.20 U	5.0	0.20	1	01/20/21 12:03	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	01/20/21 12:03	
Methyl Acetate	0.33 U	10	0.33	1	01/20/21 12:03	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	01/20/21 12:03	
Methylcyclohexane	0.20 U	10	0.20	1	01/20/21 12:03	
Styrene	0.20 U	5.0	0.20	1	01/20/21 12:03	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	01/20/21 12:03	
Toluene	0.20 U	5.0	0.20	1	01/20/21 12:03	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	01/20/21 12:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2100556-04

Units: ug/L
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	01/20/21 12:03	
Vinyl Chloride	0.20 U	5.0	0.20	1	01/20/21 12:03	
Xylenes, Total	0.23 U	5.0	0.23	1	01/20/21 12:03	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	01/20/21 12:03	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	01/20/21 12:03	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	01/20/21 12:03	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	01/20/21 12:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	01/20/21 12:03	
Dibromofluoromethane	94	80 - 116	01/20/21 12:03	
Toluene-d8	96	87 - 121	01/20/21 12:03	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Analyzed: 01/19/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100515-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.0	20.0	100	75-125
1,1,2,2-Tetrachloroethane	8260C	20.0	20.0	100	78-126
1,1,2-Trichloroethane	8260C	20.3	20.0	102	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.7	20.0	98	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.7	20.0	99	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.9	20.0	120 *	71-118
1,2,4-Trichlorobenzene	8260C	19.7	20.0	98	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	20.8	20.0	104	55-136
1,2-Dibromoethane	8260C	20.0	20.0	100	82-127
1,2-Dichlorobenzene	8260C	19.9	20.0	100	80-119
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
1,2-Dichloropropane	8260C	19.1	20.0	96	80-119
1,3-Dichlorobenzene	8260C	20.2	20.0	101	83-121
1,4-Dichlorobenzene	8260C	19.8	20.0	99	79-119
2-Butanone (MEK)	8260C	17.5	20.0	87	61-137
2-Hexanone	8260C	17.3	20.0	86	63-124
4-Methyl-2-pentanone	8260C	17.7	20.0	89	66-124
Acetone	8260C	17.8	20.0	89	40-161
Benzene	8260C	19.9	20.0	99	79-119
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	22.3	20.0	112	65-146
Bromomethane	8260C	18.3	20.0	92	42-166
Carbon Disulfide	8260C	19.7	20.0	99	66-128
Carbon Tetrachloride	8260C	20.7	20.0	104	70-127
Chlorobenzene	8260C	20.2	20.0	101	80-121
Chloroethane	8260C	18.3	20.0	92	62-131
Chloroform	8260C	19.6	20.0	98	79-120
Chloromethane	8260C	21.3	20.0	107	65-135
Cyclohexane	8260C	19.3	20.0	96	69-120
Dibromochloromethane	8260C	22.6	20.0	113	72-128
Dichlorodifluoromethane (CFC 12)	8260C	25.1	20.0	125	59-155
Dichloromethane	8260C	19.4	20.0	97	73-122
Ethylbenzene	8260C	21.9	20.0	109	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Analyzed: 01/19/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100515-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.2	20.0	106	77-128
Methyl Acetate	8260C	15.8	20.0	79	61-133
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	75-118
Methylcyclohexane	8260C	19.8	20.0	99	51-129
Styrene	8260C	20.2	20.0	101	80-124
Tetrachloroethene (PCE)	8260C	19.6	20.0	98	72-125
Toluene	8260C	20.8	20.0	104	79-119
Trichloroethene (TCE)	8260C	19.9	20.0	99	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.5	20.0	108	71-136
Vinyl Chloride	8260C	20.4	20.0	102	74-159
cis-1,2-Dichloroethene	8260C	20.8	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	19.6	20.0	98	77-122
trans-1,2-Dichloroethene	8260C	22.0	20.0	110	73-118
trans-1,3-Dichloropropene	8260C	21.3	20.0	106	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Analyzed: 01/20/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100556-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.7	20.0	99	75-125
1,1,2,2-Tetrachloroethane	8260C	19.3	20.0	97	78-126
1,1,2-Trichloroethane	8260C	20.1	20.0	100	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.3	20.0	102	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.5	20.0	102	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.8	20.0	119 *	71-118
1,2,4-Trichlorobenzene	8260C	19.8	20.0	99	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.1	20.0	85	55-136
1,2-Dibromoethane	8260C	19.9	20.0	99	82-127
1,2-Dichlorobenzene	8260C	19.6	20.0	98	80-119
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
1,2-Dichloropropane	8260C	19.8	20.0	99	80-119
1,3-Dichlorobenzene	8260C	20.6	20.0	103	83-121
1,4-Dichlorobenzene	8260C	20.2	20.0	101	79-119
2-Butanone (MEK)	8260C	17.2	20.0	86	61-137
2-Hexanone	8260C	16.9	20.0	85	63-124
4-Methyl-2-pentanone	8260C	17.9	20.0	89	66-124
Acetone	8260C	17.5	20.0	87	40-161
Benzene	8260C	20.7	20.0	104	79-119
Bromodichloromethane	8260C	20.0	20.0	100	81-123
Bromoform	8260C	21.1	20.0	105	65-146
Bromomethane	8260C	19.6	20.0	98	42-166
Carbon Disulfide	8260C	18.5	20.0	92	66-128
Carbon Tetrachloride	8260C	20.3	20.0	102	70-127
Chlorobenzene	8260C	20.6	20.0	103	80-121
Chloroethane	8260C	19.5	20.0	97	62-131
Chloroform	8260C	19.9	20.0	100	79-120
Chloromethane	8260C	22.0	20.0	110	65-135
Cyclohexane	8260C	19.3	20.0	96	69-120
Dibromochloromethane	8260C	21.7	20.0	109	72-128
Dichlorodifluoromethane (CFC 12)	8260C	24.8	20.0	124	59-155
Dichloromethane	8260C	19.5	20.0	97	73-122
Ethylbenzene	8260C	21.3	20.0	107	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Analyzed: 01/20/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2100556-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.3	20.0	107	77-128
Methyl Acetate	8260C	14.9	20.0	74	61-133
Methyl tert-Butyl Ether	8260C	20.7	20.0	103	75-118
Methylcyclohexane	8260C	19.5	20.0	98	51-129
Styrene	8260C	20.9	20.0	105	80-124
Tetrachloroethene (PCE)	8260C	20.4	20.0	102	72-125
Toluene	8260C	20.3	20.0	101	79-119
Trichloroethene (TCE)	8260C	19.9	20.0	100	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.7	20.0	109	71-136
Vinyl Chloride	8260C	21.4	20.0	107	74-159
cis-1,2-Dichloroethene	8260C	21.8	20.0	109	80-121
cis-1,3-Dichloropropene	8260C	19.0	20.0	95	77-122
trans-1,2-Dichloroethene	8260C	22.9	20.0	114	73-118
trans-1,3-Dichloropropene	8260C	19.9	20.0	99	71-133



Volatile Organic Compounds by GC

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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2100405-02

Service Request: R2100209
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	0.17 U	1.0	0.17	1	01/14/21 10:58	
Ethylene	0.35 U	1.0	0.35	1	01/14/21 10:58	
Methane	0.75 U	1.1	0.75	1	01/14/21 10:58	
Propane	0.28 U	1.0	0.28	1	01/14/21 10:58	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Analyzed: 01/14/21

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2100405-03					RQ2100405-04					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	26.4	26.0	101	26.0	26.0	100	76-126	1	20
Ethylene	RSK 175	24.3	24.3	100	24.2	24.3	100	73-129	<1	20
Methane	RSK 175	27.2	26.2	104	26.1	26.2	99	75-128	4	20
Propane	RSK 175	25.0	25.4	98	23.7	25.4	93	73-131	5	20



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

Analytical Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2100209-MB

Service Request: R2100209
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	1.8 U	mg/L	2.0	1.8	1	01/10/21 04:21	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	0.5 U	mg/L	1.0	0.5	1	01/16/21 17:16	
Nitrate as Nitrogen	9056A	0.02 U	mg/L	0.10	0.02	1	01/08/21 17:08	
Nitrite as Nitrogen	9056A	0.02 U	mg/L	0.10	0.02	1	01/08/21 17:08	
Sulfate	9056A	0.04 U	mg/L	0.20	0.04	1	01/08/21 17:08	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: EA Engineering, Science, and Technology (EAEST)
Project: Admiral Cleaners/1602504/0002
Sample Matrix: Water

Service Request: R2100209
Date Analyzed: 01/08/21 - 01/16/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2100209-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	20.8	20.0	104	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.79	10.0	98	80-121
Nitrate as Nitrogen	9056A	0.991	1.00	99	80-120
Nitrite as Nitrogen	9056A	1.02	1.00	102	80-120
Sulfate	9056A	2.01	2.00	101	80-120