UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

May 5, 2020

4LSASD-LSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 20-0226, Cristex Drum Site

FROM: Kristin Trapp
OCS Analyst

THRU: Jeffrey Wilmoth, Chief
LSB Organic Chemistry Section

TO: Neema Atashi

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Volatile Organics (VOA)		
Volatile organic compounds	EPA 8260C (Water)	ISO

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 20-0226, Cristex Drum Site

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
RB001_MW19S	E201503-01	Rinse Water Blank	4/6/20 12:30	4/8/20 10:00
TB001_CD CSIA	E201503-02	Trip Blank - Water	4/6/20 16:20	4/8/20 10:00
MW15S_CSIA	E201503-03	Groundwater	4/6/20 12:55	4/8/20 10:00
MW915S_CSIA	E201503-04	Groundwater	4/6/20 12:55	4/8/20 10:00
MW19S_CSIA	E201503-05	Groundwater	4/6/20 12:00	4/8/20 10:00
MW21S_CSIA	E201503-06	Groundwater	4/7/20 07:50	4/8/20 10:00

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QR-1	MRL verification recovery less than lower control limits.
T-1	Sample received in cooler with temperature blank greater than 6 degrees C.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR The EPA Region 4 Laboratory has not requested accreditation for this test.

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Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: RB001_MW19S **Lab ID:** E201503-01

Station ID: **Matrix:** Rinse Water Blank

Date Collected: 4/6/20 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
67-64-1	Acetone	4.0	U, T-1	ug/L	4.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
71-43-2	Benzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C

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Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: RB001_MW19S **Lab ID:** E201503-01

Station ID: **Matrix:** Rinse Water Blank

Date Collected: 4/6/20 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, J, QR-1, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:00	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
95-47-6	o-Xylene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C

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Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: RB001_MW19S
Lab ID: E201503-01
Station ID:
Matrix: Rinse Water Blank

Date Collected: 4/6/20 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
100-42-5	Styrene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
108-88-3	Toluene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:00	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, T-1	ug/L	10	4/14/20 9:52	4/14/20 14:00	EPA 8260C

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Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: TB001_CD CSIA **Lab ID:** E201503-02

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 4/6/20 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
67-64-1	Acetone	4.0	U, T-1	ug/L	4.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
71-43-2	Benzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C

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Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: TB001_CD CSIA **Lab ID:** E201503-02

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 4/6/20 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, J, QR-1, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-1	ug/L	1.0	4/14/20 9:52	4/14/20 14:27	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
95-47-6	o-Xylene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: TB001_CD CSIA **Lab ID:** E201503-02

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 4/6/20 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
100-42-5	Styrene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
108-88-3	Toluene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	4/14/20 9:52	4/14/20 14:27	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, T-1	ug/L	10	4/14/20 9:52	4/14/20 14:27	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW15S_CSIA
Station ID: MW15S
Lab ID: E201503-03
Matrix: Groundwater

Date Collected: 4/6/20 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 15:19	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
71-55-6	1,1,1-Trichloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
79-00-5	1,1,2-Trichloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-34-3	1,1-Dichloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
563-58-6	1,1-Dichloropropene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
96-18-4	1,2,3-Trichloropropane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 15:19	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
95-50-1	1,2-Dichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
107-06-2	1,2-Dichloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
78-87-5	1,2-Dichloropropane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
541-73-1	1,3-Dichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
142-28-9	1,3-Dichloropropane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
106-46-7	1,4-Dichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
594-20-7	2,2-Dichloropropane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
67-64-1	Acetone	400	U, T-1	ug/L	400	4/14/20 9:52	4/14/20 15:19	EPA 8260C
71-43-2	Benzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
108-86-1	Bromobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
74-97-5	Bromochloromethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
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D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW15S_CSIA
Lab ID: E201503-03
Station ID: MW15S
Matrix: Groundwater

Date Collected: 4/6/20 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-25-2	Bromoform	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 15:19	EPA 8260C
74-83-9	Bromomethane	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-15-0	Carbon disulfide	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 15:19	EPA 8260C
56-23-5	Carbon Tetrachloride	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
108-90-7	Chlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-00-3	Chloroethane	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 15:19	EPA 8260C
67-66-3	Chloroform	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
74-87-3	Chloromethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	980	T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
110-82-7	Cyclohexane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
124-48-1	Dibromochloromethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
74-95-3	Dibromomethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
100-41-4	Ethyl Benzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
87-68-3	Hexachlorobutadiene	50	U, J, QR-1, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
98-82-8	Isopropylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
79-20-9	Methyl Acetate	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 15:19	EPA 8260C
591-78-6	Methyl Butyl Ketone	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 15:19	EPA 8260C
78-93-3	Methyl Ethyl Ketone	400	U, T-1	ug/L	400	4/14/20 9:52	4/14/20 15:19	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 15:19	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
108-87-2	Methylcyclohexane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-09-2	Methylene Chloride	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
104-51-8	n-Butylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
103-65-1	n-Propylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
95-49-8	o-Chlorotoluene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
95-47-6	o-Xylene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW15S_CSIA
Lab ID: E201503-03
Station ID: MW15S
Matrix: Groundwater

Date Collected: 4/6/20 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
99-87-6	p-Isopropyltoluene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
135-98-8	sec-Butylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
100-42-5	Styrene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
98-06-6	tert-Butylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	8600	T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
108-88-3	Toluene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	430	T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
75-01-4	Vinyl chloride	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 15:19	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	1000	U, T-1	ug/L	1000	4/14/20 9:52	4/14/20 15:19	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW915S_CSIA
Lab ID: E201503-04
Station ID: MW15S
Matrix: Groundwater

Date Collected: 4/6/20 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:11	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
71-55-6	1,1,1-Trichloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
79-00-5	1,1,2-Trichloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-34-3	1,1-Dichloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
563-58-6	1,1-Dichloropropene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
96-18-4	1,2,3-Trichloropropane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:11	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
95-50-1	1,2-Dichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
107-06-2	1,2-Dichloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
78-87-5	1,2-Dichloropropane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
541-73-1	1,3-Dichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
142-28-9	1,3-Dichloropropane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
106-46-7	1,4-Dichlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
594-20-7	2,2-Dichloropropane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
67-64-1	Acetone	400	U, T-1	ug/L	400	4/14/20 9:52	4/14/20 16:11	EPA 8260C
71-43-2	Benzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
108-86-1	Bromobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
74-97-5	Bromochloromethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW915S_CSIA
Lab ID: E201503-04
Station ID: MW15S
Matrix: Groundwater

Date Collected: 4/6/20 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-25-2	Bromoform	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:11	EPA 8260C
74-83-9	Bromomethane	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-15-0	Carbon disulfide	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 16:11	EPA 8260C
56-23-5	Carbon Tetrachloride	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
108-90-7	Chlorobenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-00-3	Chloroethane	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 16:11	EPA 8260C
67-66-3	Chloroform	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
74-87-3	Chloromethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	1200	T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
110-82-7	Cyclohexane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
124-48-1	Dibromochloromethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
74-95-3	Dibromomethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
100-41-4	Ethyl Benzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
87-68-3	Hexachlorobutadiene	50	U, J, QR-1, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
98-82-8	Isopropylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
79-20-9	Methyl Acetate	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:11	EPA 8260C
591-78-6	Methyl Butyl Ketone	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:11	EPA 8260C
78-93-3	Methyl Ethyl Ketone	400	U, T-1	ug/L	400	4/14/20 9:52	4/14/20 16:11	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:11	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
108-87-2	Methylcyclohexane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-09-2	Methylene Chloride	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
104-51-8	n-Butylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
103-65-1	n-Propylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
95-49-8	o-Chlorotoluene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
95-47-6	o-Xylene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW915S_CSIA
Lab ID: E201503-04
Station ID: MW15S
Matrix: Groundwater

Date Collected: 4/6/20 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
99-87-6	p-Isopropyltoluene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
135-98-8	sec-Butylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
100-42-5	Styrene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
98-06-6	tert-Butylbenzene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	8600	T-1	ug/L	100	4/14/20 9:52	4/16/20 18:30	EPA 8260C
108-88-3	Toluene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	510	T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
75-01-4	Vinyl chloride	17	J, Q-2, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:11	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	1000	U, T-1	ug/L	1000	4/14/20 9:52	4/14/20 16:11	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW19S_CSIA
Lab ID: E201503-05
Station ID: MW19S
Matrix: Groundwater

Date Collected: 4/6/20 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:37	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
71-55-6	1,1,1-Trichloroethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
79-00-5	1,1,2-Trichloroethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-34-3	1,1-Dichloroethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
563-58-6	1,1-Dichloropropene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
96-18-4	1,2,3-Trichloropropane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:37	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
95-50-1	1,2-Dichlorobenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
107-06-2	1,2-Dichloroethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
78-87-5	1,2-Dichloropropane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
541-73-1	1,3-Dichlorobenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
142-28-9	1,3-Dichloropropane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
106-46-7	1,4-Dichlorobenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
594-20-7	2,2-Dichloropropane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
67-64-1	Acetone	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 16:37	EPA 8260C
71-43-2	Benzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
108-86-1	Bromobenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
74-97-5	Bromochloromethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW19S_CSIA
Station ID: MW19S
Lab ID: E201503-05
Matrix: Groundwater

Date Collected: 4/6/20 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-25-2	Bromoform	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:37	EPA 8260C
74-83-9	Bromomethane	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-15-0	Carbon disulfide	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:37	EPA 8260C
56-23-5	Carbon Tetrachloride	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
108-90-7	Chlorobenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-00-3	Chloroethane	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 16:37	EPA 8260C
67-66-3	Chloroform	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
74-87-3	Chloromethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	470	T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
110-82-7	Cyclohexane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
124-48-1	Dibromochloromethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
74-95-3	Dibromomethane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
100-41-4	Ethyl Benzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
87-68-3	Hexachlorobutadiene	25	U, J, QR-1, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
98-82-8	Isopropylbenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
79-20-9	Methyl Acetate	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:37	EPA 8260C
591-78-6	Methyl Butyl Ketone	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:37	EPA 8260C
78-93-3	Methyl Ethyl Ketone	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 16:37	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 16:37	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
108-87-2	Methylcyclohexane	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-09-2	Methylene Chloride	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
104-51-8	n-Butylbenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
103-65-1	n-Propylbenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
95-49-8	o-Chlorotoluene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
95-47-6	o-Xylene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW19S_CSIA
Lab ID: E201503-05
Station ID: MW19S
Matrix: Groundwater

Date Collected: 4/6/20 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
99-87-6	p-Isopropyltoluene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
135-98-8	sec-Butylbenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
100-42-5	Styrene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
98-06-6	tert-Butylbenzene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4600	T-1	ug/L	50	4/14/20 9:52	4/16/20 18:56	EPA 8260C
108-88-3	Toluene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	240	T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
75-01-4	Vinyl chloride	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 16:37	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	500	U, T-1	ug/L	500	4/14/20 9:52	4/14/20 16:37	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW21S_CSIA
Station ID: MW21S
Lab ID: E201503-06
Matrix: Groundwater

Date Collected: 4/7/20 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 17:04	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
71-55-6	1,1,1-Trichloroethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
79-00-5	1,1,2-Trichloroethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-34-3	1,1-Dichloroethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	46	T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
563-58-6	1,1-Dichloropropene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
96-18-4	1,2,3-Trichloropropane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 17:04	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
95-50-1	1,2-Dichlorobenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
107-06-2	1,2-Dichloroethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
78-87-5	1,2-Dichloropropane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
541-73-1	1,3-Dichlorobenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
142-28-9	1,3-Dichloropropane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
106-46-7	1,4-Dichlorobenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
594-20-7	2,2-Dichloropropane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
67-64-1	Acetone	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 17:04	EPA 8260C
71-43-2	Benzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
108-86-1	Bromobenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
74-97-5	Bromochloromethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW21S_CSIA
Lab ID: E201503-06
Station ID: MW21S
Matrix: Groundwater

Date Collected: 4/7/20 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-25-2	Bromoform	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 17:04	EPA 8260C
74-83-9	Bromomethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-15-0	Carbon disulfide	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 17:04	EPA 8260C
56-23-5	Carbon Tetrachloride	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
108-90-7	Chlorobenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-00-3	Chloroethane	50	U, T-1	ug/L	50	4/14/20 9:52	4/14/20 17:04	EPA 8260C
67-66-3	Chloroform	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
74-87-3	Chloromethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	2300	T-1	ug/L	25	4/14/20 9:52	4/16/20 19:22	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
110-82-7	Cyclohexane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
124-48-1	Dibromochloromethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
74-95-3	Dibromomethane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
100-41-4	Ethyl Benzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
87-68-3	Hexachlorobutadiene	12	U, J, QR-1, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
98-82-8	Isopropylbenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
79-20-9	Methyl Acetate	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 17:04	EPA 8260C
591-78-6	Methyl Butyl Ketone	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 17:04	EPA 8260C
78-93-3	Methyl Ethyl Ketone	100	U, T-1	ug/L	100	4/14/20 9:52	4/14/20 17:04	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	25	U, T-1	ug/L	25	4/14/20 9:52	4/14/20 17:04	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
108-87-2	Methylcyclohexane	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-09-2	Methylene Chloride	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
104-51-8	n-Butylbenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
103-65-1	n-Propylbenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
95-49-8	o-Chlorotoluene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
95-47-6	o-Xylene	11	J, Q-2, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics

Project: 20-0226, Cristex Drum Site

Sample ID: MW21S_CSIA
Station ID: MW21S
Lab ID: E201503-06
Matrix: Groundwater

Date Collected: 4/7/20 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
99-87-6	p-Isopropyltoluene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
135-98-8	sec-Butylbenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
100-42-5	Styrene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
98-06-6	tert-Butylbenzene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2500	T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
108-88-3	Toluene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	13	T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	590	T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	12	U, T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
75-01-4	Vinyl chloride	1200	T-1	ug/L	12	4/14/20 9:52	4/14/20 17:04	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U, T-1	ug/L	200	4/14/20 9:52	4/14/20 17:04	EPA 8260C

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
Blank (2004012-BLK1)				Prepared & Analyzed: 04/14/20						
EPA 8260C										
(m- and/or p-)Xylene	U	1.0	ug/L							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Acetone	U	4.0	"							U
Benzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Bromoform	U	1.0	"							U
Bromomethane	U	2.0	"							U
Carbon disulfide	U	2.0	"							U
Carbon Tetrachloride	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Chloroethane	U	2.0	"							U
Chloroform	U	0.50	"							U
Chloromethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
cis-1,3-Dichloropropene	U	0.50	"							U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
Blank (2004012-BLK1)				Prepared & Analyzed: 04/14/20						
Cyclohexane	U	0.50	ug/L							U
Dibromochloromethane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
o-Xylene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
Styrene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
Toluene	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
LCS (2004012-BS1)				Prepared & Analyzed: 04/14/20						
EPA 8260C										
(m- and/or p-)Xylene	42.150		ug/L	40.000		105	91.3-117			
1,1,1,2-Tetrachloroethane	21.400		"	20.000		107	76.5-128			
1,1,1-Trichloroethane	23.020		"	20.000		115	79.3-126			
1,1,2,2-Tetrachloroethane	20.500		"	20.000		102	80.2-118			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	23.440		"	20.000		117	80-124			
1,1,2-Trichloroethane	20.040		"	20.000		100	87.1-111			
1,1-Dichloroethane	20.920		"	20.000		105	87.8-113			
1,1-Dichloroethene (1,1-Dichloroethylene)	22.270		"	20.000		111	85.4-116			
1,1-Dichloropropene	22.460		"	20.000		112	89.4-115			
1,2,3-Trichlorobenzene	20.480		"	20.000		102	85-117			
1,2,3-Trichloropropane	19.050		"	20.000		95.2	83.4-114			
1,2,4-Trichlorobenzene	20.310		"	20.000		102	83.9-117			
1,2,4-Trimethylbenzene	20.680		"	20.000		103	86.5-121			
1,2-Dibromo-3-Chloropropane (DBCP)	42.100		"	40.000		105	72.3-136			
1,2-Dibromoethane (EDB)	21.640		"	20.000		108	87.3-115			
1,2-Dichlorobenzene	20.210		"	20.000		101	86.4-111			
1,2-Dichloroethane	20.800		"	20.000		104	83.9-122			
1,2-Dichloropropane	21.500		"	20.000		108	88-113			
1,3,5-Trimethylbenzene	20.410		"	20.000		102	86.8-119			
1,3-Dichlorobenzene	20.280		"	20.000		101	86.4-112			
1,3-Dichloropropane	19.600		"	20.000		98.0	87.4-113			
1,4-Dichlorobenzene	19.970		"	20.000		99.8	86.5-110			
2,2-Dichloropropane	22.270		"	20.000		111	53.4-154			
Acetone	51.000		"	40.000		128	49.7-153			QC-2
Benzene	21.510		"	20.000		108	89.6-113			
Bromobenzene	19.790		"	20.000		99.0	84.6-112			
Bromochloromethane	22.860		"	20.000		114	83.6-117			
Bromodichloromethane	21.900		"	20.000		110	80-125			
Bromoform	49.600		"	40.000		124	63.1-142			QC-2
Bromomethane	21.720		"	20.000		109	49.9-140			
Carbon disulfide	22.430		"	20.000		112	81.7-114			
Carbon Tetrachloride	23.640		"	20.000		118	68.8-140			
Chlorobenzene	20.740		"	20.000		104	88.4-109			
Chloroethane	20.120		"	20.000		101	76.7-118			
Chloroform	21.400		"	20.000		107	87.9-115			
Chloromethane	26.800		"	20.000		134	68.9-118			QC-2, QL-2
cis-1,2-Dichloroethene	20.690		"	20.000		103	87.6-115			
cis-1,3-Dichloropropene	20.730		"	20.000		104	81-121			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
LCS (2004012-BS1)				Prepared & Analyzed: 04/14/20						
Cyclohexane	23.590		ug/L	20.000		118	83.5-122			
Dibromochloromethane	22.290		"	20.000		111	71.7-133			
Dibromomethane	22.050		"	20.000		110	87.3-117			
Dichlorodifluoromethane (Freon 12)	24.260		"	20.000		121	63.5-132			QC-2
Ethyl Benzene	20.820		"	20.000		104	90-114			
Hexachlorobutadiene	21.190		"	20.000		106	80.2-116			
Isopropylbenzene	20.560		"	20.000		103	84.5-120			
Methyl Acetate	45.860		"	40.000		115	75.8-121			
Methyl Butyl Ketone	45.800		"	40.000		114	69.9-136			
Methyl Ethyl Ketone	48.910		"	40.000		122	68.1-135			QC-2
Methyl Isobutyl Ketone	43.620		"	40.000		109	77-127			
Methyl T-Butyl Ether (MTBE)	24.900		"	20.000		124	80.1-123			QC-2, QL-2
Methylcyclohexane	23.980		"	20.000		120	82.6-124			
Methylene Chloride	21.370		"	20.000		107	81.2-118			
n-Butylbenzene	20.600		"	20.000		103	85.7-121			
n-Propylbenzene	20.140		"	20.000		101	87-117			
o-Chlorotoluene	19.660		"	20.000		98.3	85.8-114			
o-Xylene	20.950		"	20.000		105	88.9-116			
p-Chlorotoluene	19.950		"	20.000		99.8	86.5-114			
p-Isopropyltoluene	21.320		"	20.000		107	86.3-123			
sec-Butylbenzene	20.600		"	20.000		103	86.2-120			
Styrene	21.840		"	20.000		109	89.9-119			
tert-Butylbenzene	20.360		"	20.000		102	85.2-119			
Tetrachloroethene (Tetrachloroethylene)	21.440		"	20.000		107	85.1-113			
Toluene	20.730		"	20.000		104	87.7-111			
trans-1,2-Dichloroethene	20.860		"	20.000		104	86.6-114			
trans-1,3-Dichloropropene	21.570		"	20.000		108	77.4-127			
Trichloroethene (Trichloroethylene)	21.590		"	20.000		108	87.8-114			
Trichlorofluoromethane (Freon 11)	24.000		"	20.000		120	78-129			
Vinyl chloride	23.050		"	20.000		115	78.8-115			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
LCS Dup (2004012-BSD1)				Prepared & Analyzed: 04/14/20						
EPA 8260C										
(m- and/or p-)Xylene	40.380		ug/L	40.000		101	91.3-117	4.29	10	
1,1,1,2-Tetrachloroethane	20.740		"	20.000		104	76.5-128	3.13	10	
1,1,1-Trichloroethane	21.950		"	20.000		110	79.3-126	4.76	10	
1,1,2,2-Tetrachloroethane	19.370		"	20.000		96.8	80.2-118	5.67	16	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	22.410		"	20.000		112	80-124	4.49	10	
1,1,2-Trichloroethane	19.230		"	20.000		96.2	87.1-111	4.13	11	
1,1-Dichloroethane	19.840		"	20.000		99.2	87.8-113	5.30	10	
1,1-Dichloroethene (1,1-Dichloroethylene)	20.950		"	20.000		105	85.4-116	6.11	11	
1,1-Dichloropropene	21.510		"	20.000		108	89.4-115	4.32	10	
1,2,3-Trichlorobenzene	19.810		"	20.000		99.0	85-117	3.33	12	
1,2,3-Trichloropropane	18.110		"	20.000		90.6	83.4-114	5.06	20	
1,2,4-Trichlorobenzene	19.760		"	20.000		98.8	83.9-117	2.75	13	
1,2,4-Trimethylbenzene	19.900		"	20.000		99.5	86.5-121	3.84	11	
1,2-Dibromo-3-Chloropropane (DBCP)	41.930		"	40.000		105	72.3-136	0.405	26	
1,2-Dibromoethane (EDB)	20.270		"	20.000		101	87.3-115	6.54	12	
1,2-Dichlorobenzene	18.820		"	20.000		94.1	86.4-111	7.12	10	
1,2-Dichloroethane	19.640		"	20.000		98.2	83.9-122	5.74	10	
1,2-Dichloropropane	20.120		"	20.000		101	88-113	6.63	10	
1,3,5-Trimethylbenzene	19.940		"	20.000		99.7	86.8-119	2.33	10	
1,3-Dichlorobenzene	19.640		"	20.000		98.2	86.4-112	3.21	10	
1,3-Dichloropropane	18.370		"	20.000		91.8	87.4-113	6.48	10	
1,4-Dichlorobenzene	19.720		"	20.000		98.6	86.5-110	1.26	11	
2,2-Dichloropropane	21.170		"	20.000		106	53.4-154	5.06	10	
Acetone	48.790		"	40.000		122	49.7-153	4.43	65	QC-2
Benzene	20.530		"	20.000		103	89.6-113	4.66	10	
Bromobenzene	19.300		"	20.000		96.5	84.6-112	2.51	10	
Bromochloromethane	21.370		"	20.000		107	83.6-117	6.74	10	
Bromodichloromethane	20.900		"	20.000		104	80-125	4.67	10	
Bromoform	47.010		"	40.000		118	63.1-142	5.36	16	QC-2
Bromomethane	22.130		"	20.000		111	49.9-140	1.87	20	
Carbon disulfide	21.680		"	20.000		108	81.7-114	3.40	10	
Carbon Tetrachloride	22.500		"	20.000		112	68.8-140	4.94	10	
Chlorobenzene	19.650		"	20.000		98.2	88.4-109	5.40	10	
Chloroethane	20.340		"	20.000		102	76.7-118	1.09	12	
Chloroform	20.240		"	20.000		101	87.9-115	5.57	10	
Chloromethane	24.960		"	20.000		125	68.9-118	7.11	12	QC-2, QL-2
cis-1,2-Dichloroethene	19.940		"	20.000		99.7	87.6-115	3.69	10	
cis-1,3-Dichloropropene	19.700		"	20.000		98.5	81-121	5.10	10	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
LCS Dup (2004012-BSD1)				Prepared & Analyzed: 04/14/20						
Cyclohexane	22.730		ug/L	20.000		114	83.5-122	3.71	10	
Dibromochloromethane	21.230		"	20.000		106	71.7-133	4.87	12	
Dibromomethane	20.830		"	20.000		104	87.3-117	5.69	10	
Dichlorodifluoromethane (Freon 12)	23.730		"	20.000		119	63.5-132	2.21	13	QC-2
Ethyl Benzene	19.710		"	20.000		98.6	90-114	5.48	10	
Hexachlorobutadiene	20.770		"	20.000		104	80.2-116	2.00	13	
Isopropylbenzene	19.870		"	20.000		99.4	84.5-120	3.41	10	
Methyl Acetate	44.630		"	40.000		112	75.8-121	2.72	22	
Methyl Butyl Ketone	44.270		"	40.000		111	69.9-136	3.40	38	
Methyl Ethyl Ketone	46.360		"	40.000		116	68.1-135	5.35	49	QC-2
Methyl Isobutyl Ketone	42.290		"	40.000		106	77-127	3.10	22	
Methyl T-Butyl Ether (MTBE)	23.260		"	20.000		116	80.1-123	6.81	10	QC-2
Methylcyclohexane	23.230		"	20.000		116	82.6-124	3.18	10	
Methylene Chloride	19.890		"	20.000		99.4	81.2-118	7.17	10	
n-Butylbenzene	20.020		"	20.000		100	85.7-121	2.86	10	
n-Propylbenzene	19.500		"	20.000		97.5	87-117	3.23	10	
o-Chlorotoluene	19.180		"	20.000		95.9	85.8-114	2.47	10	
o-Xylene	19.940		"	20.000		99.7	88.9-116	4.94	10	
p-Chlorotoluene	19.260		"	20.000		96.3	86.5-114	3.52	10	
p-Isopropyltoluene	20.400		"	20.000		102	86.3-123	4.41	10	
sec-Butylbenzene	20.070		"	20.000		100	86.2-120	2.61	10	
Styrene	20.740		"	20.000		104	89.9-119	5.17	10	
tert-Butylbenzene	20.250		"	20.000		101	85.2-119	0.542	10	
Tetrachloroethene (Tetrachloroethylene)	21.410		"	20.000		107	85.1-113	0.140	10	
Toluene	20.080		"	20.000		100	87.7-111	3.19	10	
trans-1,2-Dichloroethene	19.860		"	20.000		99.3	86.6-114	4.91	10	
trans-1,3-Dichloropropene	20.190		"	20.000		101	77.4-127	6.61	10	
Trichloroethene (Trichloroethylene)	21.010		"	20.000		105	87.8-114	2.72	10	
Trichlorofluoromethane (Freon 11)	22.780		"	20.000		114	78-129	5.22	10	
Vinyl chloride	21.350		"	20.000		107	78.8-115	7.66	10	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
Duplicate (2004012-DUP1)		**Source: E201503-03**		Prepared & Analyzed: 04/14/20						**T-1**
EPA 8260C										
(m- and/or p-)Xylene	U	100	ug/L		U				20	U
1,1,1,2-Tetrachloroethane	U	50	"		U				20	U
1,1,1-Trichloroethane	U	50	"		U				20	U
1,1,2,2-Tetrachloroethane	U	50	"		U				20	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	50	"		U				20	U
1,1,2-Trichloroethane	U	50	"		U				20	U
1,1-Dichloroethane	U	50	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	50	"		U				20	U
1,1-Dichloropropene	U	50	"		U				20	U
1,2,3-Trichlorobenzene	U	50	"		U				20	U
1,2,3-Trichloropropane	U	50	"		U				20	U
1,2,4-Trichlorobenzene	U	50	"		U				20	U
1,2,4-Trimethylbenzene	U	50	"		U				20	U
1,2-Dibromo-3-Chloropropane (DBCP)	U	100	"		U				20	U
1,2-Dibromoethane (EDB)	U	50	"		U				20	U
1,2-Dichlorobenzene	U	50	"		U				20	U
1,2-Dichloroethane	U	50	"		U				20	U
1,2-Dichloropropane	U	50	"		U				20	U
1,3,5-Trimethylbenzene	U	50	"		U				20	U
1,3-Dichlorobenzene	U	50	"		U				20	U
1,3-Dichloropropane	U	50	"		U				20	U
1,4-Dichlorobenzene	U	50	"		U				20	U
2,2-Dichloropropane	U	50	"		U				20	U
Acetone	U	400	"		U				20	U
Benzene	U	50	"		U				20	U
Bromobenzene	U	50	"		U				20	U
Bromochloromethane	U	50	"		U				20	U
Bromodichloromethane	U	50	"		U				20	U
Bromoform	U	100	"		U				20	U
Bromomethane	U	200	"		U				20	U
Carbon disulfide	U	200	"		U				20	U
Carbon Tetrachloride	U	50	"		U				20	U
Chlorobenzene	U	50	"		U				20	U
Chloroethane	U	200	"		U				20	U
Chloroform	U	50	"		U				20	U
Chloromethane	U	50	"		U				20	U
cis-1,2-Dichloroethene	978.00	50	"		978.00			0.00	20	
cis-1,3-Dichloropropene	U	50	"		U				20	U

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Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
Duplicate (2004012-DUP1)		**Source: E201503-03**		Prepared & Analyzed: 04/14/20						**T-1**
Cyclohexane	U	50	ug/L		U				20	U
Dibromochloromethane	U	50	"		U				20	U
Dibromomethane	U	50	"		U				20	U
Dichlorodifluoromethane (Freon 12)	U	50	"		U				20	U
Ethyl Benzene	U	50	"		U				20	U
Hexachlorobutadiene	U	50	"		U				20	J, QR-1, U
Isopropylbenzene	U	50	"		U				20	U
Methyl Acetate	U	100	"		U				20	U
Methyl Butyl Ketone	U	100	"		U				20	U
Methyl Ethyl Ketone	U	400	"		U				20	U
Methyl Isobutyl Ketone	U	100	"		U				20	U
Methyl T-Butyl Ether (MTBE)	U	50	"		U				20	U
Methylcyclohexane	U	50	"		U				20	U
Methylene Chloride	U	50	"		U				20	U
n-Butylbenzene	U	50	"		U				20	U
n-Propylbenzene	U	50	"		U				20	U
o-Chlorotoluene	U	50	"		U				20	U
o-Xylene	U	50	"		U				20	U
p-Chlorotoluene	U	50	"		U				20	U
p-Isopropyltoluene	U	50	"		U				20	U
sec-Butylbenzene	U	50	"		U				20	U
Styrene	U	50	"		U				20	U
tert-Butylbenzene	U	50	"		U				20	U
Tetrachloroethene (Tetrachloroethylene)	8701.0	50	"		8612.0			1.03	20	
Toluene	U	50	"		U				20	U
trans-1,2-Dichloroethene	U	50	"		U				20	U
trans-1,3-Dichloropropene	U	50	"		U				20	U
Trichloroethene (Trichloroethylene)	406.00	50	"		427.00			5.04	20	
Trichlorofluoromethane (Freon 11)	U	50	"		U				20	U
Vinyl chloride	U	50	"		U				20	U
Tentatively Identified Compounds	U	1000	"		U				200	U

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Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
MRL Verification (2004012-PS1)				Prepared & Analyzed: 04/14/20						
EPA 8260C										
(m- and/or p-)Xylene	0.87000		ug/L	1.0000		87.0	71.3-137			MRL-2
1,1,1,2-Tetrachloroethane	0.41000		"	0.50000		82.0	56.5-148			MRL-2
1,1,1-Trichloroethane	0.46000		"	0.50000		92.0	59.3-146			MRL-2
1,1,2,2-Tetrachloroethane	0.49000		"	0.50000		98.0	60.2-138			MRL-2
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.46000		"	0.50000		92.0	60-144			MRL-2
1,1,2-Trichloroethane	0.43000		"	0.50000		86.0	67.1-131			MRL-2
1,1-Dichloroethane	0.50000		"	0.50000		100	67.8-133			MRL-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.38000		"	0.50000		76.0	65.4-136			MRL-2
1,1-Dichloropropene	0.44000		"	0.50000		88.0	69.4-135			MRL-2
1,2,3-Trichlorobenzene	0.42000		"	0.50000		84.0	65-137			MRL-2
1,2,3-Trichloropropane	0.47000		"	0.50000		94.0	63.4-134			MRL-2
1,2,4-Trichlorobenzene	0.41000		"	0.50000		82.0	63.9-137			MRL-2
1,2,4-Trimethylbenzene	0.38000		"	0.50000		76.0	66.5-141			MRL-2
1,2-Dibromo-3-Chloropropane (DBCP)	0.81000		"	1.0000		81.0	52.3-156			MRL-2
1,2-Dibromoethane (EDB)	0.40000		"	0.50000		80.0	67.3-135			MRL-2
1,2-Dichlorobenzene	0.48000		"	0.50000		96.0	66.4-131			MRL-2
1,2-Dichloroethane	0.53000		"	0.50000		106	63.9-142			MRL-2
1,2-Dichloropropane	0.47000		"	0.50000		94.0	68-133			MRL-2
1,3,5-Trimethylbenzene	0.42000		"	0.50000		84.0	66.8-139			MRL-2
1,3-Dichlorobenzene	0.49000		"	0.50000		98.0	66.4-132			MRL-2
1,3-Dichloropropane	0.44000		"	0.50000		88.0	67.4-133			MRL-2
1,4-Dichlorobenzene	0.47000		"	0.50000		94.0	66.5-130			MRL-2
2,2-Dichloropropane	0.44000		"	0.50000		88.0	33.4-174			MRL-2
Acetone	2.3600		"	1.0000		236	29.7-173			QC-2
Benzene	0.57000		"	0.50000		114	69.6-133			MRL-2
Bromobenzene	0.45000		"	0.50000		90.0	64.6-132			MRL-2
Bromochloromethane	0.48000		"	0.50000		96.0	63.6-137			MRL-2
Bromodichloromethane	0.48000		"	0.50000		96.0	60-145			MRL-2
Bromoform	0.83000		"	1.0000		83.0	43.1-162			MRL-2, QC-2
Bromomethane	0.48000		"	0.50000		96.0	29.9-160			
Carbon disulfide	0.52000		"	0.50000		104	61.7-134			
Carbon Tetrachloride	0.50000		"	0.50000		100	48.8-160			MRL-2
Chlorobenzene	0.50000		"	0.50000		100	68.4-129			MRL-2
Chloroethane	0.49000		"	0.50000		98.0	56.7-138			
Chloroform	0.49000		"	0.50000		98.0	67.9-135			MRL-2
Chloromethane	0.73000		"	0.50000		146	48.9-138			MRL-2, QC-2, QR-2

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Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
MRL Verification (2004012-PS1)				Prepared & Analyzed: 04/14/20						
cis-1,2-Dichloroethene	0.47000		ug/L	0.50000		94.0	67.6-135			MRL-2
cis-1,3-Dichloropropene	0.41000		"	0.50000		82.0	61-141			MRL-2
Cyclohexane	0.46000		"	0.50000		92.0	63.5-142			MRL-2
Dibromochloromethane	0.45000		"	0.50000		90.0	51.7-153			MRL-2
Dibromomethane	0.45000		"	0.50000		90.0	67.3-137			MRL-2
Dichlorodifluoromethane (Freon 12)	0.52000		"	0.50000		104	43.5-152			MRL-2, QC-2
Ethyl Benzene	0.48000		"	0.50000		96.0	70-134			MRL-2
Hexachlorobutadiene	0.29000		"	0.50000		58.0	60.2-136			MRL-2, QR-1
Isopropylbenzene	0.44000		"	0.50000		88.0	64.5-140			MRL-2
Methyl Acetate	1.1400		"	1.0000		114	55.8-141			MRL-2
Methyl Butyl Ketone	1.0400		"	1.0000		104	49.9-156			MRL-2
Methyl Ethyl Ketone	1.0700		"	1.0000		107	48.1-155			QC-2
Methyl Isobutyl Ketone	0.91000		"	1.0000		91.0	57-147			MRL-2
Methyl T-Butyl Ether (MTBE)	0.59000		"	0.50000		118	60.1-143			MRL-2, QC-2
Methylcyclohexane	0.49000		"	0.50000		98.0	62.6-144			MRL-2
Methylene Chloride	0.52000		"	0.50000		104	61.2-138			MRL-2
n-Butylbenzene	0.40000		"	0.50000		80.0	65.7-141			MRL-2
n-Propylbenzene	0.43000		"	0.50000		86.0	67-137			MRL-2
o-Chlorotoluene	0.45000		"	0.50000		90.0	65.8-134			MRL-2
o-Xylene	0.39000		"	0.50000		78.0	68.9-136			MRL-2
p-Chlorotoluene	0.40000		"	0.50000		80.0	66.5-134			MRL-2
p-Isopropyltoluene	0.40000		"	0.50000		80.0	66.3-143			MRL-2
sec-Butylbenzene	0.39000		"	0.50000		78.0	66.2-140			MRL-2
Styrene	0.41000		"	0.50000		82.0	69.9-139			MRL-2
tert-Butylbenzene	0.43000		"	0.50000		86.0	65.2-139			MRL-2
Tetrachloroethene (Tetrachloroethylene)	0.42000		"	0.50000		84.0	65.1-133			MRL-2
Toluene	0.52000		"	0.50000		104	67.7-131			MRL-2
trans-1,2-Dichloroethene	0.51000		"	0.50000		102	66.6-134			MRL-2
trans-1,3-Dichloropropene	0.44000		"	0.50000		88.0	57.4-147			MRL-2
Trichloroethene (Trichloroethylene)	0.45000		"	0.50000		90.0	67.8-134			MRL-2
Trichlorofluoromethane (Freon 11)	0.52000		"	0.50000		104	58-149			MRL-2
Vinyl chloride	0.53000		"	0.50000		106	58.8-135			MRL-2

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
MRL Verification (2004012-PS2)				Prepared & Analyzed: 04/14/20						
EPA 8260C										
(m- and/or p-)Xylene	3.0300		ug/L	4.0000		75.8	71.3-137			
1,1,1,2-Tetrachloroethane	1.5100		"	2.0000		75.5	56.5-148			
1,1,1-Trichloroethane	1.7000		"	2.0000		85.0	59.3-146			
1,1,2,2-Tetrachloroethane	1.4900		"	2.0000		74.5	60.2-138			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.7500		"	2.0000		87.5	60-144			
1,1,2-Trichloroethane	1.5100		"	2.0000		75.5	67.1-131			
1,1-Dichloroethane	1.7100		"	2.0000		85.5	67.8-133			
1,1-Dichloroethene (1,1-Dichloroethylene)	1.5500		"	2.0000		77.5	65.4-136			
1,1-Dichloropropene	1.5800		"	2.0000		79.0	69.4-135			
1,2,3-Trichlorobenzene	1.5300		"	2.0000		76.5	65-137			
1,2,3-Trichloropropane	1.3800		"	2.0000		69.0	63.4-134			
1,2,4-Trichlorobenzene	1.4300		"	2.0000		71.5	63.9-137			
1,2,4-Trimethylbenzene	1.4500		"	2.0000		72.5	66.5-141			
1,2-Dibromo-3-Chloropropane (DBCP)	2.4800		"	4.0000		62.0	52.3-156			
1,2-Dibromoethane (EDB)	1.4600		"	2.0000		73.0	67.3-135			
1,2-Dichlorobenzene	1.5100		"	2.0000		75.5	66.4-131			
1,2-Dichloroethane	1.6400		"	2.0000		82.0	63.9-142			
1,2-Dichloropropane	1.7800		"	2.0000		89.0	68-133			
1,3,5-Trimethylbenzene	1.4700		"	2.0000		73.5	66.8-139			
1,3-Dichlorobenzene	1.6200		"	2.0000		81.0	66.4-132			
1,3-Dichloropropane	1.5200		"	2.0000		76.0	67.4-133			
1,4-Dichlorobenzene	1.6900		"	2.0000		84.5	66.5-130			
2,2-Dichloropropane	1.7000		"	2.0000		85.0	33.4-174			
Acetone	3.7400		"	4.0000		93.5	29.7-173			MRL-2, QC-2
Benzene	1.6600		"	2.0000		83.0	69.6-133			
Bromobenzene	1.5900		"	2.0000		79.5	64.6-132			
Bromochloromethane	1.7800		"	2.0000		89.0	63.6-137			
Bromodichloromethane	1.6400		"	2.0000		82.0	60-145			
Bromoform	2.9000		"	4.0000		72.5	43.1-162			QC-2
Bromomethane	1.7400		"	2.0000		87.0	29.9-160			MRL-2
Carbon disulfide	1.8100		"	2.0000		90.5	61.7-134			MRL-2
Carbon Tetrachloride	1.7500		"	2.0000		87.5	48.8-160			
Chlorobenzene	1.6400		"	2.0000		82.0	68.4-129			
Chloroethane	1.7300		"	2.0000		86.5	56.7-138			MRL-2
Chloroform	1.6200		"	2.0000		81.0	67.9-135			
Chloromethane	2.2000		"	2.0000		110	48.9-138			QC-2
cis-1,2-Dichloroethene	1.6500		"	2.0000		82.5	67.6-135			
cis-1,3-Dichloropropene	1.3500		"	2.0000		67.5	61-141			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004012 - V 5030B VOA Wtr Prep										
MRL Verification (2004012-PS2)				Prepared & Analyzed: 04/14/20						
Cyclohexane	1.6200		ug/L	2.0000		81.0	63.5-142			
Dibromochloromethane	1.4900		"	2.0000		74.5	51.7-153			
Dibromomethane	1.6100		"	2.0000		80.5	67.3-137			
Dichlorodifluoromethane (Freon 12)	1.7600		"	2.0000		88.0	43.5-152			QC-2
Ethyl Benzene	1.5300		"	2.0000		76.5	70-134			
Hexachlorobutadiene	1.4600		"	2.0000		73.0	60.2-136			
Isopropylbenzene	1.4900		"	2.0000		74.5	64.5-140			
Methyl Acetate	3.1200		"	4.0000		78.0	55.8-141			
Methyl Butyl Ketone	2.6400		"	4.0000		66.0	49.9-156			
Methyl Ethyl Ketone	2.9200		"	4.0000		73.0	48.1-155			MRL-2, QC-2
Methyl Isobutyl Ketone	2.5100		"	4.0000		62.8	57-147			
Methyl T-Butyl Ether (MTBE)	1.7400		"	2.0000		87.0	60.1-143			QC-2
Methylcyclohexane	1.5600		"	2.0000		78.0	62.6-144			
Methylene Chloride	1.8000		"	2.0000		90.0	61.2-138			
n-Butylbenzene	1.3800		"	2.0000		69.0	65.7-141			
n-Propylbenzene	1.4600		"	2.0000		73.0	67-137			
o-Chlorotoluene	1.6200		"	2.0000		81.0	65.8-134			
o-Xylene	1.5200		"	2.0000		76.0	68.9-136			
p-Chlorotoluene	1.5500		"	2.0000		77.5	66.5-134			
p-Isopropyltoluene	1.4700		"	2.0000		73.5	66.3-143			
sec-Butylbenzene	1.4600		"	2.0000		73.0	66.2-140			
Styrene	1.3900		"	2.0000		69.5	69.9-139			
tert-Butylbenzene	1.4800		"	2.0000		74.0	65.2-139			
Tetrachloroethene (Tetrachloroethylene)	1.6900		"	2.0000		84.5	65.1-133			
Toluene	1.5600		"	2.0000		78.0	67.7-131			
trans-1,2-Dichloroethene	1.5900		"	2.0000		79.5	66.6-134			
trans-1,3-Dichloropropene	1.4800		"	2.0000		74.0	57.4-147			
Trichloroethene (Trichloroethylene)	1.6500		"	2.0000		82.5	67.8-134			
Trichlorofluoromethane (Freon 11)	1.8400		"	2.0000		92.0	58-149			
Vinyl chloride	1.7600		"	2.0000		88.0	58.8-135			

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004020 - V 5030B VOA Wtr Prep										
Blank (2004020-BLK1)				Prepared & Analyzed: 04/16/20						
EPA 8260C										
(m- and/or p-)Xylene	U	1.0	ug/L							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Acetone	U	4.0	"							U
Benzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Bromoform	U	1.0	"							QC-6, U
Bromomethane	U	2.0	"							U
Carbon disulfide	U	2.0	"							U
Carbon Tetrachloride	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Chloroethane	U	2.0	"							U
Chloroform	U	0.50	"							U
Chloromethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
cis-1,3-Dichloropropene	U	0.50	"							U

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004020 - V 5030B VOA Wtr Prep										
Blank (2004020-BLK1)				Prepared & Analyzed: 04/16/20						
Cyclohexane	U	0.50	ug/L							U
Dibromochloromethane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
o-Xylene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
Styrene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
Toluene	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004020 - V 5030B VOA Wtr Prep										
LCS (2004020-BS1)				Prepared & Analyzed: 04/16/20						
EPA 8260C										
(m- and/or p-)Xylene	40.440		ug/L	40.000		101	91.3-117			
1,1,1,2-Tetrachloroethane	20.150		"	20.000		101	76.5-128			
1,1,1-Trichloroethane	19.020		"	20.000		95.1	79.3-126			
1,1,2,2-Tetrachloroethane	20.470		"	20.000		102	80.2-118			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	18.480		"	20.000		92.4	80-124			
1,1,2-Trichloroethane	20.000		"	20.000		100	87.1-111			
1,1-Dichloroethane	18.620		"	20.000		93.1	87.8-113			
1,1-Dichloroethene (1,1-Dichloroethylene)	18.430		"	20.000		92.2	85.4-116			
1,1-Dichloropropene	20.010		"	20.000		100	89.4-115			
1,2,3-Trichlorobenzene	20.080		"	20.000		100	85-117			
1,2,3-Trichloropropane	20.140		"	20.000		101	83.4-114			
1,2,4-Trichlorobenzene	19.650		"	20.000		98.2	83.9-117			
1,2,4-Trimethylbenzene	20.620		"	20.000		103	86.5-121			
1,2-Dibromo-3-Chloropropane (DBCP)	45.020		"	40.000		113	72.3-136			
1,2-Dibromoethane (EDB)	21.240		"	20.000		106	87.3-115			
1,2-Dichlorobenzene	19.180		"	20.000		95.9	86.4-111			
1,2-Dichloroethane	19.160		"	20.000		95.8	83.9-122			
1,2-Dichloropropane	19.460		"	20.000		97.3	88-113			
1,3,5-Trimethylbenzene	20.140		"	20.000		101	86.8-119			
1,3-Dichlorobenzene	19.460		"	20.000		97.3	86.4-112			
1,3-Dichloropropane	19.950		"	20.000		99.8	87.4-113			
1,4-Dichlorobenzene	19.020		"	20.000		95.1	86.5-110			
2,2-Dichloropropane	20.310		"	20.000		102	53.4-154			
Acetone	40.400		"	40.000		101	49.7-153			
Benzene	19.470		"	20.000		97.4	89.6-113			
Bromobenzene	19.610		"	20.000		98.0	84.6-112			
Bromochloromethane	20.350		"	20.000		102	83.6-117			
Bromodichloromethane	20.140		"	20.000		101	80-125			
Bromoform	50.140		"	40.000		125	63.1-142			QC-2, QC-6
Bromomethane	18.380		"	20.000		91.9	49.9-140			
Carbon disulfide	18.720		"	20.000		93.6	81.7-114			
Carbon Tetrachloride	19.790		"	20.000		99.0	68.8-140			
Chlorobenzene	19.200		"	20.000		96.0	88.4-109			
Chloroethane	17.930		"	20.000		89.6	76.7-118			
Chloroform	19.210		"	20.000		96.0	87.9-115			
Chloromethane	20.370		"	20.000		102	68.9-118			
cis-1,2-Dichloroethene	19.430		"	20.000		97.2	87.6-115			
cis-1,3-Dichloropropene	20.850		"	20.000		104	81-121			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004020 - V 5030B VOA Wtr Prep										
LCS (2004020-BS1)				Prepared & Analyzed: 04/16/20						
Cyclohexane	19.330		ug/L	20.000		96.6	83.5-122			
Dibromochloromethane	21.270		"	20.000		106	71.7-133			
Dibromomethane	19.960		"	20.000		99.8	87.3-117			
Dichlorodifluoromethane (Freon 12)	17.070		"	20.000		85.4	63.5-132			
Ethyl Benzene	19.630		"	20.000		98.2	90-114			
Hexachlorobutadiene	18.950		"	20.000		94.8	80.2-116			
Isopropylbenzene	19.900		"	20.000		99.5	84.5-120			
Methyl Acetate	40.670		"	40.000		102	75.8-121			
Methyl Butyl Ketone	46.400		"	40.000		116	69.9-136			
Methyl Ethyl Ketone	44.830		"	40.000		112	68.1-135			
Methyl Isobutyl Ketone	44.800		"	40.000		112	77-127			
Methyl T-Butyl Ether (MTBE)	19.840		"	20.000		99.2	80.1-123			
Methylcyclohexane	19.690		"	20.000		98.4	82.6-124			
Methylene Chloride	18.650		"	20.000		93.2	81.2-118			
n-Butylbenzene	20.400		"	20.000		102	85.7-121			
n-Propylbenzene	19.720		"	20.000		98.6	87-117			
o-Chlorotoluene	19.430		"	20.000		97.2	85.8-114			
o-Xylene	20.190		"	20.000		101	88.9-116			
p-Chlorotoluene	19.420		"	20.000		97.1	86.5-114			
p-Isopropyltoluene	20.550		"	20.000		103	86.3-123			
sec-Butylbenzene	20.180		"	20.000		101	86.2-120			
Styrene	20.960		"	20.000		105	89.9-119			
tert-Butylbenzene	19.850		"	20.000		99.2	85.2-119			
Tetrachloroethene (Tetrachloroethylene)	19.010		"	20.000		95.0	85.1-113			
Toluene	19.500		"	20.000		97.5	87.7-111			
trans-1,2-Dichloroethene	19.420		"	20.000		97.1	86.6-114			
trans-1,3-Dichloropropene	20.980		"	20.000		105	77.4-127			
Trichloroethene (Trichloroethylene)	18.560		"	20.000		92.8	87.8-114			
Trichlorofluoromethane (Freon 11)	17.740		"	20.000		88.7	78-129			
Vinyl chloride	19.250		"	20.000		96.2	78.8-115			

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004020 - V 5030B VOA Wtr Prep										
MRL Verification (2004020-PS1)				Prepared & Analyzed: 04/16/20						
EPA 8260C										
(m- and/or p-)Xylene	1.0000		ug/L	1.0000		100	71.3-137			MRL-2
1,1,1,2-Tetrachloroethane	0.56000		"	0.50000		112	56.5-148			MRL-2
1,1,1-Trichloroethane	0.47000		"	0.50000		94.0	59.3-146			MRL-2
1,1,2,2-Tetrachloroethane	0.67000		"	0.50000		134	60.2-138			MRL-2
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.42000		"	0.50000		84.0	60-144			MRL-2
1,1,2-Trichloroethane	0.56000		"	0.50000		112	67.1-131			MRL-2
1,1-Dichloroethane	0.53000		"	0.50000		106	67.8-133			MRL-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.49000		"	0.50000		98.0	65.4-136			MRL-2
1,1-Dichloropropene	0.53000		"	0.50000		106	69.4-135			MRL-2
1,2,3-Trichlorobenzene	0.53000		"	0.50000		106	65-137			MRL-2
1,2,3-Trichloropropane	0.60000		"	0.50000		120	63.4-134			MRL-2
1,2,4-Trichlorobenzene	0.52000		"	0.50000		104	63.9-137			MRL-2
1,2,4-Trimethylbenzene	0.50000		"	0.50000		100	66.5-141			MRL-2
1,2-Dibromo-3-Chloropropane (DBCP)	1.1000		"	1.0000		110	52.3-156			MRL-2
1,2-Dibromoethane (EDB)	0.59000		"	0.50000		118	67.3-135			MRL-2
1,2-Dichlorobenzene	0.60000		"	0.50000		120	66.4-131			MRL-2
1,2-Dichloroethane	0.59000		"	0.50000		118	63.9-142			MRL-2
1,2-Dichloropropane	0.55000		"	0.50000		110	68-133			MRL-2
1,3,5-Trimethylbenzene	0.52000		"	0.50000		104	66.8-139			MRL-2
1,3-Dichlorobenzene	0.65000		"	0.50000		130	66.4-132			MRL-2
1,3-Dichloropropane	0.60000		"	0.50000		120	67.4-133			MRL-2
1,4-Dichlorobenzene	0.63000		"	0.50000		126	66.5-130			MRL-2
2,2-Dichloropropane	0.54000		"	0.50000		108	33.4-174			MRL-2
Acetone	1.5600		"	1.0000		156	29.7-173			
Benzene	0.58000		"	0.50000		116	69.6-133			MRL-2
Bromobenzene	0.64000		"	0.50000		128	64.6-132			MRL-2
Bromochloromethane	0.60000		"	0.50000		120	63.6-137			MRL-2
Bromodichloromethane	0.54000		"	0.50000		108	60-145			MRL-2
Bromoform	1.1800		"	1.0000		118	43.1-162			MRL-2, QC-2, QC-6
Bromomethane	0.64000		"	0.50000		128	29.9-160			
Carbon disulfide	0.62000		"	0.50000		124	61.7-134			
Carbon Tetrachloride	0.50000		"	0.50000		100	48.8-160			MRL-2
Chlorobenzene	0.60000		"	0.50000		120	68.4-129			MRL-2
Chloroethane	0.63000		"	0.50000		126	56.7-138			
Chloroform	0.59000		"	0.50000		118	67.9-135			MRL-2
Chloromethane	0.63000		"	0.50000		126	48.9-138			MRL-2
cis-1,2-Dichloroethene	0.58000		"	0.50000		116	67.6-135			MRL-2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 20-0226
Project: 20-0226, Cristex Drum Site - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004020 - V 5030B VOA Wtr Prep										
MRL Verification (2004020-PS1)				Prepared & Analyzed: 04/16/20						
cis-1,3-Dichloropropene	0.50000		ug/L	0.50000		100	61-141			MRL-2
Cyclohexane	0.47000		"	0.50000		94.0	63.5-142			MRL-2
Dibromochloromethane	0.58000		"	0.50000		116	51.7-153			MRL-2
Dibromomethane	0.53000		"	0.50000		106	67.3-137			MRL-2
Dichlorodifluoromethane (Freon 12)	0.46000		"	0.50000		92.0	43.5-152			MRL-2
Ethyl Benzene	0.53000		"	0.50000		106	70-134			MRL-2
Hexachlorobutadiene	0.47000		"	0.50000		94.0	60.2-136			MRL-2
Isopropylbenzene	0.53000		"	0.50000		106	64.5-140			MRL-2
Methyl Acetate	1.0900		"	1.0000		109	55.8-141			MRL-2
Methyl Butyl Ketone	1.1600		"	1.0000		116	49.9-156			MRL-2
Methyl Ethyl Ketone	1.1300		"	1.0000		113	48.1-155			
Methyl Isobutyl Ketone	1.1100		"	1.0000		111	57-147			MRL-2
Methyl T-Butyl Ether (MTBE)	0.58000		"	0.50000		116	60.1-143			MRL-2
Methylcyclohexane	0.47000		"	0.50000		94.0	62.6-144			MRL-2
Methylene Chloride	0.56000		"	0.50000		112	61.2-138			MRL-2
n-Butylbenzene	0.54000		"	0.50000		108	65.7-141			MRL-2
n-Propylbenzene	0.55000		"	0.50000		110	67-137			MRL-2
o-Chlorotoluene	0.62000		"	0.50000		124	65.8-134			MRL-2
o-Xylene	0.56000		"	0.50000		112	68.9-136			MRL-2
p-Chlorotoluene	0.55000		"	0.50000		110	66.5-134			MRL-2
p-Isopropyltoluene	0.46000		"	0.50000		92.0	66.3-143			MRL-2
sec-Butylbenzene	0.51000		"	0.50000		102	66.2-140			MRL-2
Styrene	0.51000		"	0.50000		102	69.9-139			MRL-2
tert-Butylbenzene	0.52000		"	0.50000		104	65.2-139			MRL-2
Tetrachloroethene (Tetrachloroethylene)	0.51000		"	0.50000		102	65.1-133			MRL-2
Toluene	0.56000		"	0.50000		112	67.7-131			MRL-2
trans-1,2-Dichloroethene	0.54000		"	0.50000		108	66.6-134			MRL-2
trans-1,3-Dichloropropene	0.50000		"	0.50000		100	57.4-147			MRL-2
Trichloroethene (Trichloroethylene)	0.55000		"	0.50000		110	67.8-134			MRL-2
Trichlorofluoromethane (Freon 11)	0.49000		"	0.50000		98.0	58-149			MRL-2
Vinyl chloride	0.51000		"	0.50000		102	58.8-135			MRL-2

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US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004020 - V 5030B VOA Wtr Prep										
MRL Verification (2004020-PS2)				Prepared & Analyzed: 04/16/20						
EPA 8260C										
(m- and/or p-)Xylene	4.3900		ug/L	4.0000		110	71.3-137			
1,1,1,2-Tetrachloroethane	2.1000		"	2.0000		105	56.5-148			
1,1,1-Trichloroethane	2.3800		"	2.0000		119	59.3-146			
1,1,2,2-Tetrachloroethane	2.4800		"	2.0000		124	60.2-138			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2.2600		"	2.0000		113	60-144			
1,1,2-Trichloroethane	2.2500		"	2.0000		112	67.1-131			
1,1-Dichloroethane	2.2300		"	2.0000		112	67.8-133			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.2000		"	2.0000		110	65.4-136			
1,1-Dichloropropene	2.2700		"	2.0000		114	69.4-135			
1,2,3-Trichlorobenzene	2.0200		"	2.0000		101	65-137			
1,2,3-Trichloropropane	2.3300		"	2.0000		116	63.4-134			
1,2,4-Trichlorobenzene	2.0200		"	2.0000		101	63.9-137			
1,2,4-Trimethylbenzene	2.2600		"	2.0000		113	66.5-141			
1,2-Dibromo-3-Chloropropane (DBCP)	4.8700		"	4.0000		122	52.3-156			
1,2-Dibromoethane (EDB)	2.2400		"	2.0000		112	67.3-135			
1,2-Dichlorobenzene	2.3500		"	2.0000		118	66.4-131			
1,2-Dichloroethane	2.2800		"	2.0000		114	63.9-142			
1,2-Dichloropropane	2.2600		"	2.0000		113	68-133			
1,3,5-Trimethylbenzene	2.2000		"	2.0000		110	66.8-139			
1,3-Dichlorobenzene	2.2300		"	2.0000		112	66.4-132			
1,3-Dichloropropane	2.2600		"	2.0000		113	67.4-133			
1,4-Dichlorobenzene	2.3600		"	2.0000		118	66.5-130			
2,2-Dichloropropane	2.3500		"	2.0000		118	33.4-174			
Acetone	4.9500		"	4.0000		124	29.7-173			MRL-2
Benzene	2.2000		"	2.0000		110	69.6-133			
Bromobenzene	2.2300		"	2.0000		112	64.6-132			
Bromochloromethane	2.2400		"	2.0000		112	63.6-137			
Bromodichloromethane	2.0100		"	2.0000		100	60-145			
Bromoform	4.8700		"	4.0000		122	43.1-162			QC-2, QC-6
Bromomethane	2.1600		"	2.0000		108	29.9-160			MRL-2
Carbon disulfide	2.2000		"	2.0000		110	61.7-134			MRL-2
Carbon Tetrachloride	2.1500		"	2.0000		108	48.8-160			
Chlorobenzene	2.1400		"	2.0000		107	68.4-129			
Chloroethane	2.3000		"	2.0000		115	56.7-138			MRL-2
Chloroform	2.1900		"	2.0000		110	67.9-135			
Chloromethane	2.5900		"	2.0000		130	48.9-138			
cis-1,2-Dichloroethene	2.2600		"	2.0000		113	67.6-135			
cis-1,3-Dichloropropene	2.1000		"	2.0000		105	61-141			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2004020 - V 5030B VOA Wtr Prep										
MRL Verification (2004020-PS2)				Prepared & Analyzed: 04/16/20						
Cyclohexane	2.1800		ug/L	2.0000		109	63.5-142			
Dibromochloromethane	2.1900		"	2.0000		110	51.7-153			
Dibromomethane	2.3300		"	2.0000		116	67.3-137			
Dichlorodifluoromethane (Freon 12)	2.1400		"	2.0000		107	43.5-152			
Ethyl Benzene	2.1900		"	2.0000		110	70-134			
Hexachlorobutadiene	2.2300		"	2.0000		112	60.2-136			
Isopropylbenzene	2.2700		"	2.0000		114	64.5-140			
Methyl Acetate	4.8700		"	4.0000		122	55.8-141			
Methyl Butyl Ketone	4.8200		"	4.0000		120	49.9-156			
Methyl Ethyl Ketone	5.2300		"	4.0000		131	48.1-155			MRL-2
Methyl Isobutyl Ketone	4.6700		"	4.0000		117	57-147			
Methyl T-Butyl Ether (MTBE)	2.1900		"	2.0000		110	60.1-143			
Methylcyclohexane	2.2900		"	2.0000		114	62.6-144			
Methylene Chloride	2.2300		"	2.0000		112	61.2-138			
n-Butylbenzene	2.1700		"	2.0000		108	65.7-141			
n-Propylbenzene	2.2300		"	2.0000		112	67-137			
o-Chlorotoluene	2.3600		"	2.0000		118	65.8-134			
o-Xylene	2.2200		"	2.0000		111	68.9-136			
p-Chlorotoluene	2.2800		"	2.0000		114	66.5-134			
p-Isopropyltoluene	2.1600		"	2.0000		108	66.3-143			
sec-Butylbenzene	2.2500		"	2.0000		112	66.2-140			
Styrene	2.0100		"	2.0000		100	69.9-139			
tert-Butylbenzene	2.1900		"	2.0000		110	65.2-139			
Tetrachloroethene (Tetrachloroethylene)	2.1100		"	2.0000		106	65.1-133			
Toluene	2.2900		"	2.0000		114	67.7-131			
trans-1,2-Dichloroethene	2.2000		"	2.0000		110	66.6-134			
trans-1,3-Dichloropropene	2.1500		"	2.0000		108	57.4-147			
Trichloroethene (Trichloroethylene)	2.2300		"	2.0000		112	67.8-134			
Trichlorofluoromethane (Freon 11)	2.2100		"	2.0000		110	58-149			
Vinyl chloride	2.4100		"	2.0000		120	58.8-135			

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
QC-2	Analyte concentration high in continuing calibration verification standard
QC-6	Calibration check standard greater than method control limits.
QL-2	Laboratory Control Spike Recovery greater than method control limits
QR-1	MRL verification recovery less than lower control limits.
QR-2	MRL verification recovery greater than upper control limits.
T-1	Sample received in cooler with temperature blank greater than 6 degrees C.