

## Detterman, Mark, Env. Health

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**From:** Detterman, Mark, Env. Health  
**Sent:** Monday, January 26, 2015 10:38 AM  
**To:** 'Sami Malaeb'  
**Subject:** RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Hi Sami,

Your reasoning makes good sense; however, I would also request that naphthalene be included in both soil and vapor samples (by TO-15 only). In reviewing the naphthalene vapor results, the reporting limit on SG-3 was <25,000 ug/m<sup>3</sup> and on SG-1 it was <2,500 ug/m<sup>3</sup> by TO-15 which is higher than residential without a biozone under the LTCP. We may still rely on the TO-17 results, but the extra sampling will provide the redundancy DTSC requests. The soil samples you propose will provide us with multiple lines of evidence. If you have questions, let me know.

Thanks,

*Mark Detterman*  
*Senior Hazardous Materials Specialist, PG, CEG*  
*Alameda County Environmental Health*  
*1131 Harbor Bay Parkway*  
*Alameda, CA 94502*  
*Direct: 510.567.6876*  
*Fax: 510.337.9335*  
*Email: mark.detterman@acgov.org*

*PDF copies of case files can be downloaded at:*

*<http://www.acgov.org/aceh/lop/ust.htm>*

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**From:** Sami Malaeb [mailto:s.malaeb@comcast.net]  
**Sent:** Friday, January 23, 2015 8:51 PM  
**To:** Detterman, Mark, Env. Health  
**Subject:** RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Hi Mark:

I got the revised soil gas lab results from the lab with the benzene levels flagged as estimate (attached). The benzene levels are estimated at 120 µg/m<sup>3</sup> and 140 µg/m<sup>3</sup> respectively for the soil gas sample in SG-1 and its duplicate. At this point, during next round of sampling I would propose the following:

In addition to the offsite soil gas borings SG-4 and SG-5, proposed near the apartment building, I would collect another verification soil gas sample SG-6 near SG-1. We will analyze the sample for Benzene and Ethylbenzene, and Isobutyl Alcohol (the trace compound) by TO-15 and for the atmospheric compounds by ASTM Method D-1946 (Oxygen, Nitrogen, Methane, and Carbon Dioxide) as for the analysis of the other two proposed soil gas borings SG-4 and SG-5. As I mentioned last time, while drilling soil gas borings SG-4, SG-5, and SG-6, we will collect soil samples for analysis from each boring at 2 feet and 5 feet below surface and analyze for TPH-G, BTEX, and for TPH-D to see whether the combined levels of TPH-G and TPH-D is below 100 mg/kg? proposed soil gas borings will be drilled according the approved workplan to a depth of approximately 6.5 feet below surface grade.

Also, since we know soil gas sample SG-3 far exceeded the risk levels for benzene and ethylbenzene. As we discussed, in the future, the proper remedial action is to excavate the soil in the area of MW-2 and SG-3 to a depth of five feet and replace with clean imported soil. While we are drilling SG-4, SG-5, and SG-6, we will drill four verification soil borings

SB1, SB2, SB3, and SB4 (on all four sides of the future excavation) to a depth of 5 feet below surface grade. We will collect soil samples for analysis from each boring at 2 feet and 5 feet below surface and analyze for TPH-G, BTEX, and for TPH-D to see whether the combined levels of TPH-G and TPH-D is below 100 mg/kg? The purpose of these borings will be to delineate in advance the extent of the needed soil excavation in the future. Boring logs will be generated.

The above job could be completed in one day of drilling and sampling. There is a cost saving of drilling the additional borings SB1, SB2, SB3, and SB4 while drilling the other soil gas borings.

The next report will contain the results for the soil gas samples and soil samples. In addition the report will contain the interim remedial action for the lead impacted areas. Also, the report will contain an update of the conceptual site model and the recommendations for the next step, based on the analytical findings.

Soil excavation around SG-3 and MW-2 will not happen in this phase of the work since no money has been approved for this excavation yet nor the extent of the excavation has been obtained.

I will call you Monday to discuss the above additional work.

Regards,

Sami Malaeb, P.E., QSP/QSD  
TEL: (925) 858-9608  
Email: [s.malaeb@comcast.net](mailto:s.malaeb@comcast.net)

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**From:** Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]  
**Sent:** Wednesday, January 21, 2015 2:41 PM  
**To:** 'Sami Malaeb'  
**Subject:** RE: 2145 35th Ave, Oakland (Chevron 9-8861; R02945)

Sami,

Thanks for the revised figure and scope of work. It appears appropriate and it appears warranted to do both offsite temporary soil vapor points due to the proximity of the residential apartment building. Let me know if you will need a submittal extension; however, the current due date is March 16, 2015, so it should be possible to get a report here by then.

*Mark Detterman*  
*Senior Hazardous Materials Specialist, PG, CEG*  
*Alameda County Environmental Health*  
*1131 Harbor Bay Parkway*  
*Alameda, CA 94502*  
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*PDF copies of case files can be downloaded at:*

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**From:** Sami Malaeb [<mailto:s.malaeb@comcast.net>]  
**Sent:** Wednesday, January 21, 2015 2:01 PM  
**To:** Detterman, Mark, Env. Health  
**Subject:** RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Hi Mark:

As you requested today, I added one more soil gas boring closer to 35<sup>th</sup> Avenue (SG-5). Therefore, we are proposing two additional soil gas borings, SG-4 and SG-5. Please see the attached updated figure. Since Naphthalene is not longer an issue, I plan to analyze the gas samples only for:

Benzene and Ethylbenzene, and Isobutyl Alcohol (the trace compound) by TO-15 and for the atmospheric compounds by ASTM Method D-1946 (Oxygen, Nitrogen, Methane, and Carbon Dioxide).

Also, as we discussed, while drilling the soil gas borings, we plan to collect two soil samples from each boring at depths of 2 feet below surface grade (bsg) and 5 feet bsg and analyze the soil samples for Total TPH-G and TPH-D by using EPA Method 8015.

Please confirm that this plan is acceptable to you.

Best,

Sami Malaeb, P.E., QSP/QSD  
TEL: (925) 858-9608  
Email: [s.malaeb@comcast.net](mailto:s.malaeb@comcast.net)

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**From:** Sami Malaeb [<mailto:s.malaeb@comcast.net>]  
**Sent:** Sunday, January 18, 2015 11:42 AM  
**To:** 'Detterman, Mark, Env. Health'  
**Subject:** RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Hi Mark:

I obtained the soil gas lab results for the subject site late Friday. I summarized the results in the attached table. Also, I attached a copy of the lab results and a figure. Based on these analytical findings, we conclude the following:

1. Naphthalene was not detected and confirmed by TO-17 to be well below the risk level of 93  $\mu\text{g}/\text{m}^3$  in all three locations.
2. Both Benzene and Ethylbenzene exceeded the risk levels of 85  $\mu\text{g}/\text{m}^3$  and 1,100  $\mu\text{g}/\text{m}^3$  respectively in SG-3 near the south corner of the site.
3. No exceedances in SG-1 and SG-2, except, I need to talk to the lab to see if they can find out whether the detection of benzene could be proved to be <85  $\mu\text{g}/\text{m}^3$ .
4. No 2-propanol (Trace compound) was detected so the manifold and probes were tight.

At this point I suggest collecting one more soil gas sample near the wall of the Apartment building (SG-4). Please see the attached figure. I plan to analyze the sample only for:

Benzene and Ethylbenzene, and Isobutyl Alcohol (the trace compound) by TO-15 and for the atmospheric compounds by ASTM Method D-1946 (Oxygen, Nitrogen, Methane, and Carbon Dioxide).

I will call you on Monday to discuss this email.

Thanks,

Sami Malaeb, P.E., QSP/QSD  
TEL: (925) 858-9608  
Email: [s.malaeb@comcast.net](mailto:s.malaeb@comcast.net)

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**From:** Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]  
**Sent:** Wednesday, January 14, 2015 11:14 AM  
**To:** 'Sami Malaeb'  
**Subject:** RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Sami,

Thanks for the update on the site. The extension request appears appropriate. Please use this email to document ACEH concurrence; however, to minimize costs, I have kept the two reports as originally requested as a single report submittal with a March 16 date. If you think it warranted, please keep me advised as to the vapor results prior to report submittal.

Best,

*Mark Detterman*  
*Senior Hazardous Materials Specialist, PG, CEG*  
*Alameda County Environmental Health*  
*1131 Harbor Bay Parkway*  
*Alameda, CA 94502*  
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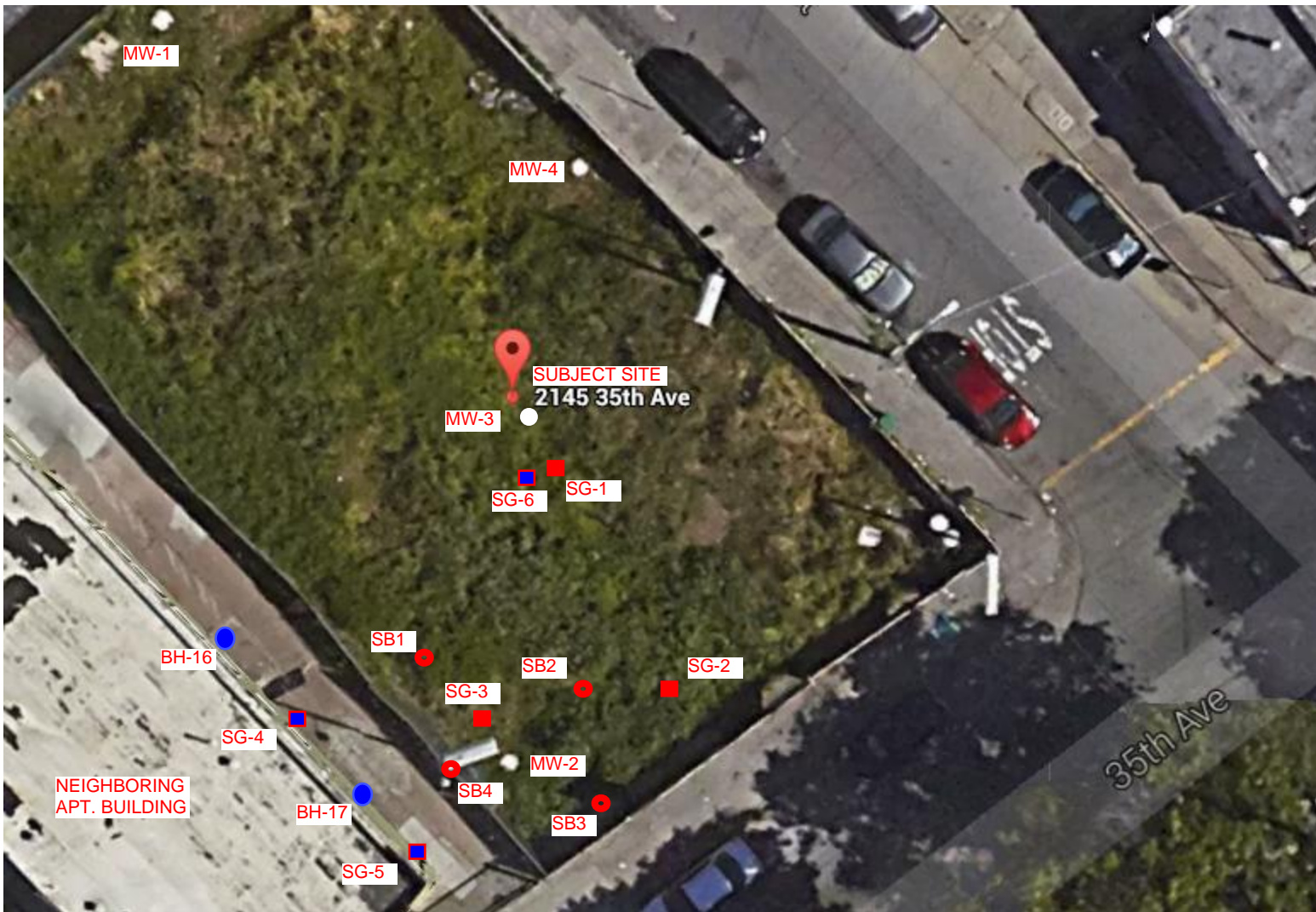
**From:** Sami Malaeb [<mailto:s.malaeb@comcast.net>]  
**Sent:** Wednesday, January 14, 2015 10:59 AM  
**To:** Detterman, Mark, Env. Health  
**Subject:** RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Hi Mark:

I am writing this email to request further extension of time to submit the soil gas sampling and interim remedial action reports for the subject site. Due to the rainy weather in December 2014 and encountering wet soil, we were not able to conduct the soil gas survey until first week of January 2015. We expect the lab results for the soil gas sampling by no later than 21<sup>st</sup> of this month. We expect to complete the interim remedial action (shallow soil excavation and disposal for lead impacted areas) by mid February or earlier.

We request to extend the time for the report submittal as follows:

Soil gas sampling report by February 27, 2015.



Approximate Scale :  
1 inch = 20 feet



■ Already Sampled  
Soil Gas Locations

■ Proposed Soil Gas  
Sampling Location

● Drilled soil borings

● Proposed soil borings  
to delineate the future  
excavation

Figure - Approximate Locations of Drilled Soil Gas Borings and Proposed Borings

1/23/2015  
Mr. Ross Tinline  
SVC Environmental, Inc.  
11 Kenton Ave

San Carlos CA 94070

Project Name: Salisbury  
Project #:  
Workorder #: 1501029AR1

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 1/5/2015 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori  
Project Manager

**WORK ORDER #: 1501029AR1**

Work Order Summary

<b>CLIENT:</b>	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070	<b>BILL TO:</b>	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070
<b>PHONE:</b>	650-218-3766	<b>P.O. #</b>	2145 35th Avenue Oakland
<b>FAX:</b>		<b>PROJECT #</b>	Salisbury
<b>DATE RECEIVED:</b>	01/05/2015	<b>CONTACT:</b>	Kyle Vagadori
<b>DATE COMPLETED:</b>	01/14/2015		
<b>DATE REISSUED:</b>	01/23/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SG-3	TO-15	5.0 "Hg	15 psi
02A	SG-2	TO-15	4.5 "Hg	15.5psi
03A	SG-1	TO-15	5.0 "Hg	15 psi
04A	SG-1R	TO-15	5.0 "Hg	15 psi
05A	Lab Blank	TO-15	NA	NA
05B	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
06B	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA
07B	LCS	TO-15	NA	NA
07BB	LCSD	TO-15	NA	NA

CERTIFIED BY:   
 \_\_\_\_\_  
 Technical Director

DATE: 01/21/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,  
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935  
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)  
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.  
 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563  
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**EPA Method TO-15**  
**SVC Environmental, Inc.**  
**Workorder# 1501029AR1**

Four 1 Liter Summa Canister samples were received on January 05, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

**Receiving Notes**

According to the Chain of Custody (COC), samples SG-3, SG-2, SG-1 and SG-1R were collected on 1/2/14. However, the date on the sample tags for SG-3 and SG-2 reflects a collection date of 1/2/15. Therefore the date on the sample tags was used to calculate the sample holding time.

**Analytical Notes**

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Dilution was performed on samples SG-3, SG-1, and SG-1R due to the presence of high level target species.

Due to the linear calibration range of the instrument, the reporting limit for 1,2,4-Trichlorobenzene and Hexachlorobutadiene on instrument MSD-14 was raised from 20 ppbv to 50 ppbv.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

PER CLIENT REQUEST, THE WORKORDER WAS RE-ISSUED ON 01/23/2015 FOR THE FOLLOWING REASONS:

1. TO REPORT BENZENE HITS THAT ARE BELOW THE REPORTING LIMIT BUT GREATER THAN THE METHOD DETECTION LIMIT IN SAMPLES SG-1 AND SG-1R. CONCENTRATIONS THAT ARE BELOW THE LEVEL AT WHICH THE CANISTER WAS CERTIFIED (0.2 PPBV FOR COMPOUNDS REPORTED AT 0.5 PPBV) MAY BE FALSE POSITIVES.
2. TO INCLUDE MDL VALUES IN THE FINAL REPORT. MDL VALUES FOR ALL COMPOUNDS IN ALL SAMPLES HAVE BEEN REPORTED, HOWEVER, ONLY BENZENE HAS BEEN EVALUATED TO THE MDL IN SAMPLES SG-1 AND SG-1R.

**Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:



B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-3	<b>Date/Time Analyzed:</b>	1/8/15 08:09 PM
<b>Lab ID:</b>	1501029AR1-01A	<b>Dilution Factor:</b>	242
<b>Date/Time Collected:</b>	1/2/15 11:23 AM	<b>Instrument/Filename:</b>	msd14.i / 14010822
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1500	4000	6600	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	2100	5000	8300	Not Detected
1,1,2-Trichloroethane	79-00-5	1300	4000	6600	Not Detected
1,1-Dichloroethane	75-34-3	1000	2900	4900	Not Detected
1,1-Dichloroethene	75-35-4	1800	2900	4800	Not Detected
1,2,4-Trichlorobenzene	120-82-1	14000	14000	90000	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1300	3600	5900	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1900	5600	9300	Not Detected
1,2-Dichlorobenzene	95-50-1	2000	4400	7300	Not Detected
1,2-Dichloroethane	107-06-2	830	2900	4900	Not Detected
1,2-Dichloropropane	78-87-5	1600	3400	5600	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1400	3600	5900	Not Detected
1,3-Butadiene	106-99-0	900	1600	2700	Not Detected
1,3-Dichlorobenzene	541-73-1	1800	4400	7300	Not Detected
1,4-Dichlorobenzene	106-46-7	3000	4400	7300	Not Detected
1,4-Dioxane	123-91-1	2400	4400	17000	Not Detected
2,2,4-Trimethylpentane	540-84-1	720	3400	5600	11000000 E
2-Butanone (Methyl Ethyl Ketone)	78-93-3	2800	3600	14000	Not Detected
2-Hexanone	591-78-6	3200	5000	20000	Not Detected
2-Propanol	67-63-0	1400	3000	12000	Not Detected
3-Chloropropene	107-05-1	3900	3900	15000	Not Detected
4-Ethyltoluene	622-96-8	1300	3600	5900	Not Detected
4-Methyl-2-pentanone	108-10-1	2400	3000	5000	Not Detected
Acetone	67-64-1	3800	3800	11000	Not Detected

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-3	<b>Date/Time Analyzed:</b>	1/8/15 08:09 PM
<b>Lab ID:</b>	1501029AR1-01A	<b>Dilution Factor:</b>	242
<b>Date/Time Collected:</b>	1/2/15 11:23 AM	<b>Instrument/Filename:</b>	msd14.i / 14010822
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	1100	3800	6300	Not Detected
Benzene	71-43-2	770	2300	3900	5700
Bromodichloromethane	75-27-4	2000	4900	8100	Not Detected
Bromoform	75-25-2	3200	7500	12000	Not Detected
Bromomethane	74-83-9	1400	2800	4700	Not Detected
Carbon Disulfide	75-15-0	840	2300	3800	Not Detected
Carbon Tetrachloride	56-23-5	1200	4600	7600	Not Detected
Chlorobenzene	108-90-7	270	3300	5600	Not Detected
Chloroethane	75-00-3	4000	4000	13000	Not Detected
Chloroform	67-66-3	1200	3500	5900	Not Detected
Chloromethane	74-87-3	810	2500	10000	Not Detected
cis-1,2-Dichloroethene	156-59-2	1700	2900	4800	Not Detected
cis-1,3-Dichloropropene	10061-01-5	710	3300	5500	Not Detected
Cumene	98-82-8	990	3600	5900	Not Detected
Cyclohexane	110-82-7	1000	2500	4200	43000
Dibromochloromethane	124-48-1	2000	6200	10000	Not Detected
Ethanol	64-17-5	3000	3000	9100	Not Detected
Ethyl Benzene	100-41-4	1400	3200	5200	11000
Freon 11	75-69-4	1900	4100	6800	Not Detected
Freon 113	76-13-1	2700	5600	9300	Not Detected
Freon 114	76-14-2	1700	5100	8400	Not Detected
Freon 12	75-71-8	1200	3600	6000	Not Detected
Heptane	142-82-5	1100	3000	5000	100000
Hexachlorobutadiene	87-68-3	16000	16000	130000	Not Detected

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-3	<b>Date/Time Analyzed:</b>	1/8/15 08:09 PM
<b>Lab ID:</b>	1501029AR1-01A	<b>Dilution Factor:</b>	242
<b>Date/Time Collected:</b>	1/2/15 11:23 AM	<b>Instrument/Filename:</b>	msd14.i / 14010822
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	930	2600	4300	63000
m,p-Xylene	108-38-3	1400	3200	5200	Not Detected
Methyl tert-butyl ether	1634-04-4	1500	2600	4400	Not Detected
Methylene Chloride	75-09-2	1800	2500	4200	Not Detected
Naphthalene	91-20-3	3200	6300	25000	Not Detected
o-Xylene	95-47-6	880	3200	5200	Not Detected
Propylbenzene	103-65-1	670	3600	5900	Not Detected
Styrene	100-42-5	1200	3100	5200	Not Detected
Tetrachloroethene	127-18-4	1800	4900	8200	Not Detected
Tetrahydrofuran	109-99-9	890	2100	3600	Not Detected
Toluene	108-88-3	440	2700	4600	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	200000	3200000
trans-1,2-Dichloroethene	156-60-5	1900	2900	4800	Not Detected
trans-1,3-Dichloropropene	10061-02-6	1400	3300	5500	Not Detected
Trichloroethene	79-01-6	2700	3900	6500	Not Detected
Vinyl Chloride	75-01-4	1600	1800	3100	Not Detected

E = Exceeds instrument calibration range.  
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	90
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	SG-2	<b>Date/Time Analyzed:</b>	1/8/15 07:35 PM
<b>Lab ID:</b>	1501029AR1-02A	<b>Dilution Factor:</b>	2.42
<b>Date/Time Collected:</b>	1/2/15 12:09 PM	<b>Instrument/Filename:</b>	msdj.i / j010816
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.95	4.1	6.6	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.72	5.2	8.3	Not Detected
1,1,2-Trichloroethane	79-00-5	1.3	4.1	6.6	Not Detected
1,1-Dichloroethane	75-34-3	0.79	3.0	4.9	Not Detected
1,1-Dichloroethene	75-35-4	1.7	3.0	4.8	Not Detected
1,2,4-Trichlorobenzene	120-82-1	7.2	22	36	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.30	3.7	5.9	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.97	5.8	9.3	Not Detected
1,2-Dichlorobenzene	95-50-1	1.2	4.5	7.3	Not Detected
1,2-Dichloroethane	107-06-2	0.58	3.0	4.9	Not Detected
1,2-Dichloropropane	78-87-5	1.3	3.5	5.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.72	3.7	5.9	Not Detected
1,3-Butadiene	106-99-0	1.4	1.6	2.7	Not Detected
1,3-Dichlorobenzene	541-73-1	0.93	4.5	7.3	Not Detected
1,4-Dichlorobenzene	106-46-7	1.3	4.5	7.3	Not Detected
1,4-Dioxane	123-91-1	2.9	11	17	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.86	3.5	5.6	880
2-Butanone (Methyl Ethyl Ketone)	78-93-3	2.5	8.9	14	Not Detected
2-Hexanone	591-78-6	1.7	12	20	Not Detected
2-Propanol	67-63-0	2.3	7.4	12	Not Detected
3-Chloropropene	107-05-1	1.7	9.5	15	Not Detected
4-Ethyltoluene	622-96-8	0.84	3.7	5.9	Not Detected
4-Methyl-2-pentanone	108-10-1	1.0	3.1	5.0	Not Detected
Acetone	67-64-1	2.7	7.2	29	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	SG-2	<b>Date/Time Analyzed:</b>	1/8/15 07:35 PM
<b>Lab ID:</b>	1501029AR1-02A	<b>Dilution Factor:</b>	2.42
<b>Date/Time Collected:</b>	1/2/15 12:09 PM	<b>Instrument/Filename:</b>	msdj.i / j010816
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.97	3.9	6.3	Not Detected
Benzene	71-43-2	0.75	2.4	3.9	Not Detected
Bromodichloromethane	75-27-4	1.7	5.0	8.1	Not Detected
Bromoform	75-25-2	2.1	7.8	12	Not Detected
Bromomethane	74-83-9	2.2	12	47	Not Detected
Carbon Disulfide	75-15-0	1.9	9.4	15	Not Detected
Carbon Tetrachloride	56-23-5	1.1	4.7	7.6	Not Detected
Chlorobenzene	108-90-7	0.67	3.4	5.6	Not Detected
Chloroethane	75-00-3	2.6	8.0	13	Not Detected
Chloroform	67-66-3	1.2	3.7	5.9	Not Detected
Chloromethane	74-87-3	2.6	6.2	25	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.3	3.0	4.8	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.99	3.4	5.5	Not Detected
Cumene	98-82-8	0.77	3.7	5.9	Not Detected
Cyclohexane	110-82-7	0.66	2.6	4.2	Not Detected
Dibromochloromethane	124-48-1	1.4	6.4	10	Not Detected
Ethanol	64-17-5	1.6	5.7	9.1	Not Detected
Ethyl Benzene	100-41-4	1.1	3.2	5.2	Not Detected
Freon 11	75-69-4	1.8	4.2	6.8	Not Detected
Freon 113	76-13-1	2.0	5.7	9.3	Not Detected
Freon 114	76-14-2	2.1	5.2	8.4	Not Detected
Freon 12	75-71-8	1.4	3.7	6.0	Not Detected
Heptane	142-82-5	1.3	3.1	5.0	8.8
Hexachlorobutadiene	87-68-3	11	32	52	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	SG-2	<b>Date/Time Analyzed:</b>	1/8/15 07:35 PM
<b>Lab ID:</b>	1501029AR1-02A	<b>Dilution Factor:</b>	2.42
<b>Date/Time Collected:</b>	1/2/15 12:09 PM	<b>Instrument/Filename:</b>	msdj.i / j010816
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	0.62	2.6	4.3	5.1
m,p-Xylene	108-38-3	0.40	3.2	5.2	Not Detected
Methyl tert-butyl ether	1634-04-4	0.98	2.7	4.4	Not Detected
Methylene Chloride	75-09-2	4.2	10	42	Not Detected
Naphthalene	91-20-3	0.62	16	25	Not Detected
o-Xylene	95-47-6	1.1	3.2	5.2	Not Detected
Propylbenzene	103-65-1	1.1	3.7	5.9	Not Detected
Styrene	100-42-5	0.46	3.2	5.2	Not Detected
Tetrachloroethene	127-18-4	1.1	5.1	8.2	Not Detected
Tetrahydrofuran	109-99-9	1.4	2.2	3.6	Not Detected
Toluene	108-88-3	0.97	2.8	4.6	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	490	3800
trans-1,2-Dichloroethene	156-60-5	1.2	3.0	4.8	Not Detected
trans-1,3-Dichloropropene	10061-02-6	1.0	3.4	5.5	Not Detected
Trichloroethene	79-01-6	1.3	4.0	6.5	Not Detected
Vinyl Chloride	75-01-4	0.72	1.9	3.1	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	105
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	93

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-1	<b>Date/Time Analyzed:</b>	1/8/15 08:41 PM
<b>Lab ID:</b>	1501029AR1-03A	<b>Dilution Factor:</b>	24.2
<b>Date/Time Collected:</b>	1/2/15 01:05 PM	<b>Instrument/Filename:</b>	msd14.i / 14010823R1
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	150	400	660	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	210	500	830	Not Detected
1,1,2-Trichloroethane	79-00-5	130	400	660	Not Detected
1,1-Dichloroethane	75-34-3	100	290	490	Not Detected
1,1-Dichloroethene	75-35-4	180	290	480	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1400	1400	3600	Not Detected
1,2,4-Trimethylbenzene	95-63-6	130	360	590	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	190	560	930	Not Detected
1,2-Dichlorobenzene	95-50-1	200	440	730	Not Detected
1,2-Dichloroethane	107-06-2	83	290	490	Not Detected
1,2-Dichloropropane	78-87-5	160	340	560	Not Detected
1,3,5-Trimethylbenzene	108-67-8	140	360	590	Not Detected
1,3-Butadiene	106-99-0	90	160	270	Not Detected
1,3-Dichlorobenzene	541-73-1	180	440	730	Not Detected
1,4-Dichlorobenzene	106-46-7	300	440	730	Not Detected
1,4-Dioxane	123-91-1	240	440	1700	Not Detected
2,2,4-Trimethylpentane	540-84-1	72	340	560	230000
2-Butanone (Methyl Ethyl Ketone)	78-93-3	280	360	1400	Not Detected
2-Hexanone	591-78-6	320	500	2000	Not Detected
2-Propanol	67-63-0	140	300	1200	Not Detected
3-Chloropropene	107-05-1	390	390	1500	Not Detected
4-Ethyltoluene	622-96-8	130	360	590	Not Detected
4-Methyl-2-pentanone	108-10-1	240	300	500	Not Detected
Acetone	67-64-1	380	380	1100	Not Detected



EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-1	<b>Date/Time Analyzed:</b>	1/8/15 08:41 PM
<b>Lab ID:</b>	1501029AR1-03A	<b>Dilution Factor:</b>	24.2
<b>Date/Time Collected:</b>	1/2/15 01:05 PM	<b>Instrument/Filename:</b>	msd14.i / 14010823R1
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	110	380	630	Not Detected
Benzene	71-43-2	77	230	390	120 J
Bromodichloromethane	75-27-4	200	490	810	Not Detected
Bromoform	75-25-2	320	750	1200	Not Detected
Bromomethane	74-83-9	140	280	470	Not Detected
Carbon Disulfide	75-15-0	84	230	380	Not Detected
Carbon Tetrachloride	56-23-5	120	460	760	Not Detected
Chlorobenzene	108-90-7	27	330	560	Not Detected
Chloroethane	75-00-3	400	400	1300	Not Detected
Chloroform	67-66-3	120	350	590	Not Detected
Chloromethane	74-87-3	81	250	1000	Not Detected
cis-1,2-Dichloroethene	156-59-2	170	290	480	Not Detected
cis-1,3-Dichloropropene	10061-01-5	71	330	550	Not Detected
Cumene	98-82-8	99	360	590	Not Detected
Cyclohexane	110-82-7	100	250	420	2200
Dibromochloromethane	124-48-1	200	620	1000	Not Detected
Ethanol	64-17-5	300	300	910	Not Detected
Ethyl Benzene	100-41-4	140	320	520	Not Detected
Freon 11	75-69-4	190	410	680	Not Detected
Freon 113	76-13-1	270	560	930	Not Detected
Freon 114	76-14-2	170	510	840	Not Detected
Freon 12	75-71-8	120	360	600	Not Detected
Heptane	142-82-5	110	300	500	4500
Hexachlorobutadiene	87-68-3	1600	1600	5200	Not Detected

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-1	<b>Date/Time Analyzed:</b>	1/8/15 08:41 PM
<b>Lab ID:</b>	1501029AR1-03A	<b>Dilution Factor:</b>	24.2
<b>Date/Time Collected:</b>	1/2/15 01:05 PM	<b>Instrument/Filename:</b>	msd14.i / 14010823R1
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	93	260	430	3600
m,p-Xylene	108-38-3	140	320	520	Not Detected
Methyl tert-butyl ether	1634-04-4	150	260	440	Not Detected
Methylene Chloride	75-09-2	180	250	420	Not Detected
Naphthalene	91-20-3	320	630	2500	Not Detected
o-Xylene	95-47-6	88	320	520	Not Detected
Propylbenzene	103-65-1	67	360	590	Not Detected
Styrene	100-42-5	120	310	520	Not Detected
Tetrachloroethene	127-18-4	180	490	820	Not Detected
Tetrahydrofuran	109-99-9	89	210	360	Not Detected
Toluene	108-88-3	44	270	460	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	20000	700000
trans-1,2-Dichloroethene	156-60-5	190	290	480	Not Detected
trans-1,3-Dichloropropene	10061-02-6	140	330	550	Not Detected
Trichloroethene	79-01-6	270	390	650	Not Detected
Vinyl Chloride	75-01-4	160	180	310	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	105
4-Bromofluorobenzene	460-00-4	70-130	88
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-1R	<b>Date/Time Analyzed:</b>	1/8/15 09:06 PM
<b>Lab ID:</b>	1501029AR1-04A	<b>Dilution Factor:</b>	24.2
<b>Date/Time Collected:</b>	1/2/15 01:18 PM	<b>Instrument/Filename:</b>	msd14.i / 14010824R1
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	150	400	660	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	210	500	830	Not Detected
1,1,2-Trichloroethane	79-00-5	130	400	660	Not Detected
1,1-Dichloroethane	75-34-3	100	290	490	Not Detected
1,1-Dichloroethene	75-35-4	180	290	480	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1400	1400	3600	Not Detected
1,2,4-Trimethylbenzene	95-63-6	130	360	590	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	190	560	930	Not Detected
1,2-Dichlorobenzene	95-50-1	200	440	730	Not Detected
1,2-Dichloroethane	107-06-2	83	290	490	Not Detected
1,2-Dichloropropane	78-87-5	160	340	560	Not Detected
1,3,5-Trimethylbenzene	108-67-8	140	360	590	Not Detected
1,3-Butadiene	106-99-0	90	160	270	Not Detected
1,3-Dichlorobenzene	541-73-1	180	440	730	Not Detected
1,4-Dichlorobenzene	106-46-7	300	440	730	Not Detected
1,4-Dioxane	123-91-1	240	440	1700	Not Detected
2,2,4-Trimethylpentane	540-84-1	72	340	560	270000
2-Butanone (Methyl Ethyl Ketone)	78-93-3	280	360	1400	Not Detected
2-Hexanone	591-78-6	320	500	2000	Not Detected
2-Propanol	67-63-0	140	300	1200	Not Detected
3-Chloropropene	107-05-1	390	390	1500	Not Detected
4-Ethyltoluene	622-96-8	130	360	590	Not Detected
4-Methyl-2-pentanone	108-10-1	240	300	500	Not Detected
Acetone	67-64-1	380	380	1100	Not Detected

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-1R	<b>Date/Time Analyzed:</b>	1/8/15 09:06 PM
<b>Lab ID:</b>	1501029AR1-04A	<b>Dilution Factor:</b>	24.2
<b>Date/Time Collected:</b>	1/2/15 01:18 PM	<b>Instrument/Filename:</b>	msd14.i / 14010824R1
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	110	380	630	Not Detected
Benzene	71-43-2	77	230	390	140 J
Bromodichloromethane	75-27-4	200	490	810	Not Detected
Bromoform	75-25-2	320	750	1200	Not Detected
Bromomethane	74-83-9	140	280	470	Not Detected
Carbon Disulfide	75-15-0	84	230	380	Not Detected
Carbon Tetrachloride	56-23-5	120	460	760	Not Detected
Chlorobenzene	108-90-7	27	330	560	Not Detected
Chloroethane	75-00-3	400	400	1300	Not Detected
Chloroform	67-66-3	120	350	590	Not Detected
Chloromethane	74-87-3	81	250	1000	Not Detected
cis-1,2-Dichloroethene	156-59-2	170	290	480	Not Detected
cis-1,3-Dichloropropene	10061-01-5	71	330	550	Not Detected
Cumene	98-82-8	99	360	590	Not Detected
Cyclohexane	110-82-7	100	250	420	2500
Dibromochloromethane	124-48-1	200	620	1000	Not Detected
Ethanol	64-17-5	300	300	910	Not Detected
Ethyl Benzene	100-41-4	140	320	520	Not Detected
Freon 11	75-69-4	190	410	680	Not Detected
Freon 113	76-13-1	270	560	930	Not Detected
Freon 114	76-14-2	170	510	840	Not Detected
Freon 12	75-71-8	120	360	600	Not Detected
Heptane	142-82-5	110	300	500	5900
Hexachlorobutadiene	87-68-3	1600	1600	5200	Not Detected

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	SG-1R	<b>Date/Time Analyzed:</b>	1/8/15 09:06 PM
<b>Lab ID:</b>	1501029AR1-04A	<b>Dilution Factor:</b>	24.2
<b>Date/Time Collected:</b>	1/2/15 01:18 PM	<b>Instrument/Filename:</b>	msd14.i / 14010824R1
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	93	260	430	4000
m,p-Xylene	108-38-3	140	320	520	Not Detected
Methyl tert-butyl ether	1634-04-4	150	260	440	Not Detected
Methylene Chloride	75-09-2	180	250	420	Not Detected
Naphthalene	91-20-3	320	630	2500	Not Detected
o-Xylene	95-47-6	88	320	520	Not Detected
Propylbenzene	103-65-1	67	360	590	Not Detected
Styrene	100-42-5	120	310	520	Not Detected
Tetrachloroethene	127-18-4	180	490	820	Not Detected
Tetrahydrofuran	109-99-9	89	210	360	Not Detected
Toluene	108-88-3	44	270	460	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	20000	820000
trans-1,2-Dichloroethene	156-60-5	190	290	480	Not Detected
trans-1,3-Dichloropropene	10061-02-6	140	330	550	Not Detected
Trichloroethene	79-01-6	270	390	650	Not Detected
Vinyl Chloride	75-01-4	160	180	310	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	103
4-Bromofluorobenzene	460-00-4	70-130	88
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/8/15 02:15 PM
<b>Lab ID:</b>	1501029AR1-05A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010808
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.39	1.7	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.30	2.1	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.53	1.7	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.33	1.2	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.72	1.2	2.0	Not Detected
1,2,4-Trichlorobenzene	120-82-1	3.0	9.3	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.12	1.5	2.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.40	2.4	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.50	1.9	3.0	Not Detected
1,2-Dichloroethane	107-06-2	0.24	1.2	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.53	1.4	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.30	1.5	2.4	Not Detected
1,3-Butadiene	106-99-0	0.58	0.68	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.39	1.9	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	0.52	1.9	3.0	Not Detected
1,4-Dioxane	123-91-1	1.2	4.5	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.36	1.4	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.0	3.7	5.9	Not Detected
2-Hexanone	591-78-6	0.71	5.1	8.2	Not Detected
2-Propanol	67-63-0	0.95	3.1	4.9	Not Detected
3-Chloropropene	107-05-1	0.69	3.9	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.35	1.5	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	0.42	1.3	2.0	Not Detected
Acetone	67-64-1	1.1	3.0	12	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/8/15 02:15 PM
<b>Lab ID:</b>	1501029AR1-05A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010808
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.40	1.6	2.6	Not Detected
Benzene	71-43-2	0.31	0.99	1.6	Not Detected
Bromodichloromethane	75-27-4	0.69	2.1	3.4	Not Detected
Bromoform	75-25-2	0.89	3.2	5.2	Not Detected
Bromomethane	74-83-9	0.93	4.8	19	Not Detected
Carbon Disulfide	75-15-0	0.80	3.9	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.45	2.0	3.1	Not Detected
Chlorobenzene	108-90-7	0.28	1.4	2.3	Not Detected
Chloroethane	75-00-3	1.1	3.3	5.3	Not Detected
Chloroform	67-66-3	0.52	1.5	2.4	Not Detected
Chloromethane	74-87-3	1.1	2.6	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.52	1.2	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.41	1.4	2.3	Not Detected
Cumene	98-82-8	0.32	1.5	2.4	Not Detected
Cyclohexane	110-82-7	0.27	1.1	1.7	Not Detected
Dibromochloromethane	124-48-1	0.58	2.6	4.2	Not Detected
Ethanol	64-17-5	0.66	2.4	3.8	Not Detected
Ethyl Benzene	100-41-4	0.47	1.3	2.2	Not Detected
Freon 11	75-69-4	0.76	1.7	2.8	Not Detected
Freon 113	76-13-1	0.82	2.4	3.8	Not Detected
Freon 114	76-14-2	0.87	2.2	3.5	Not Detected
Freon 12	75-71-8	0.58	1.5	2.5	Not Detected
Heptane	142-82-5	0.54	1.3	2.0	Not Detected
Hexachlorobutadiene	87-68-3	4.4	13	21	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/8/15 02:15 PM
<b>Lab ID:</b>	1501029AR1-05A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010808
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	0.26	1.1	1.8	Not Detected
m,p-Xylene	108-38-3	0.16	1.3	2.2	Not Detected
Methyl tert-butyl ether	1634-04-4	0.40	1.1	1.8	Not Detected
Methylene Chloride	75-09-2	1.7	4.3	17	Not Detected
Naphthalene	91-20-3	0.26	6.6	10	Not Detected
o-Xylene	95-47-6	0.46	1.3	2.2	Not Detected
Propylbenzene	103-65-1	0.46	1.5	2.4	Not Detected
Styrene	100-42-5	0.19	1.3	2.1	Not Detected
Tetrachloroethene	127-18-4	0.44	2.1	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.59	0.91	1.5	Not Detected
Toluene	108-88-3	0.40	1.2	1.9	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	200	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.51	1.2	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.42	1.4	2.3	Not Detected
Trichloroethene	79-01-6	0.53	1.7	2.7	Not Detected
Vinyl Chloride	75-01-4	0.30	0.79	1.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	104
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	94



EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/8/15 01:06 PM
<b>Lab ID:</b>	1501029AR1-05B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010809R1
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	6.3	16	27	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	8.5	20	34	Not Detected
1,1,2-Trichloroethane	79-00-5	5.4	16	27	Not Detected
1,1-Dichloroethane	75-34-3	4.1	12	20	Not Detected
1,1-Dichloroethene	75-35-4	7.4	12	20	Not Detected
1,2,4-Trichlorobenzene	120-82-1	58	58	150	Not Detected
1,2,4-Trimethylbenzene	95-63-6	5.6	15	24	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	7.9	23	38	Not Detected
1,2-Dichlorobenzene	95-50-1	8.4	18	30	Not Detected
1,2-Dichloroethane	107-06-2	3.4	12	20	Not Detected
1,2-Dichloropropane	78-87-5	6.6	14	23	Not Detected
1,3,5-Trimethylbenzene	108-67-8	5.7	15	24	Not Detected
1,3-Butadiene	106-99-0	3.7	6.6	11	Not Detected
1,3-Dichlorobenzene	541-73-1	7.3	18	30	Not Detected
1,4-Dichlorobenzene	106-46-7	13	18	30	Not Detected
1,4-Dioxane	123-91-1	9.9	18	72	Not Detected
2,2,4-Trimethylpentane	540-84-1	3.0	14	23	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	12	15	59	Not Detected
2-Hexanone	591-78-6	13	20	82	Not Detected
2-Propanol	67-63-0	5.7	12	49	Not Detected
3-Chloropropene	107-05-1	16	16	63	Not Detected
4-Ethyltoluene	622-96-8	5.5	15	24	Not Detected
4-Methyl-2-pentanone	108-10-1	10	12	20	Not Detected
Acetone	67-64-1	16	16	48	Not Detected

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/8/15 01:06 PM
<b>Lab ID:</b>	1501029AR1-05B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010809R1
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	4.4	16	26	Not Detected
Benzene	71-43-2	3.2	9.6	16	Not Detected
Bromodichloromethane	75-27-4	8.5	20	34	Not Detected
Bromoform	75-25-2	13	31	52	Not Detected
Bromomethane	74-83-9	5.6	12	19	Not Detected
Carbon Disulfide	75-15-0	3.5	9.3	16	Not Detected
Carbon Tetrachloride	56-23-5	5.1	19	31	Not Detected
Chlorobenzene	108-90-7	1.1	14	23	Not Detected
Chloroethane	75-00-3	17	17	53	Not Detected
Chloroform	67-66-3	5.2	15	24	Not Detected
Chloromethane	74-87-3	3.4	10	41	Not Detected
cis-1,2-Dichloroethene	156-59-2	7.2	12	20	Not Detected
cis-1,3-Dichloropropene	10061-01-5	3.0	14	23	Not Detected
Cumene	98-82-8	4.1	15	24	Not Detected
Cyclohexane	110-82-7	4.4	10	17	Not Detected
Dibromochloromethane	124-48-1	8.3	26	42	Not Detected
Ethanol	64-17-5	12	12	38	Not Detected
Ethyl Benzene	100-41-4	5.7	13	22	Not Detected
Freon 11	75-69-4	7.7	17	28	Not Detected
Freon 113	76-13-1	11	23	38	Not Detected
Freon 114	76-14-2	6.9	21	35	Not Detected
Freon 12	75-71-8	4.9	15	25	Not Detected
Heptane	142-82-5	4.6	12	20	Not Detected
Hexachlorobutadiene	87-68-3	64	64	210	Not Detected

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/8/15 01:06 PM
<b>Lab ID:</b>	1501029AR1-05B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010809R1
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	3.8	10	18	Not Detected
m,p-Xylene	108-38-3	6.0	13	22	Not Detected
Methyl tert-butyl ether	1634-04-4	6.4	11	18	Not Detected
Methylene Chloride	75-09-2	7.5	10	17	Not Detected
Naphthalene	91-20-3	13	26	100	Not Detected
o-Xylene	95-47-6	3.6	13	22	Not Detected
Propylbenzene	103-65-1	2.8	15	24	Not Detected
Styrene	100-42-5	5.1	13	21	Not Detected
Tetrachloroethene	127-18-4	7.5	20	34	Not Detected
Tetrahydrofuran	109-99-9	3.7	8.8	15	Not Detected
Toluene	108-88-3	1.8	11	19	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	820	Not Detected
trans-1,2-Dichloroethene	156-60-5	7.9	12	20	Not Detected
trans-1,3-Dichloropropene	10061-02-6	5.9	14	23	Not Detected
Trichloroethene	79-01-6	11	16	27	Not Detected
Vinyl Chloride	75-01-4	6.6	7.7	13	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	96
4-Bromofluorobenzene	460-00-4	70-130	90
Toluene-d8	2037-26-5	70-130	101

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/8/15 10:40 AM
<b>Lab ID:</b>	1501029AR1-06A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010802
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	97
1,1,2,2-Tetrachloroethane	79-34-5	78
1,1,2-Trichloroethane	79-00-5	88
1,1-Dichloroethane	75-34-3	98
1,1-Dichloroethene	75-35-4	105
1,2,4-Trichlorobenzene	120-82-1	118
1,2,4-Trimethylbenzene	95-63-6	117
1,2-Dibromoethane (EDB)	106-93-4	92
1,2-Dichlorobenzene	95-50-1	111
1,2-Dichloroethane	107-06-2	92
1,2-Dichloropropane	78-87-5	87
1,3,5-Trimethylbenzene	108-67-8	107
1,3-Butadiene	106-99-0	106
1,3-Dichlorobenzene	541-73-1	113
1,4-Dichlorobenzene	106-46-7	114
1,4-Dioxane	123-91-1	104
2,2,4-Trimethylpentane	540-84-1	100
2-Butanone (Methyl Ethyl Ketone)	78-93-3	103
2-Hexanone	591-78-6	108
2-Propanol	67-63-0	108
3-Chloropropene	107-05-1	108
4-Ethyltoluene	622-96-8	112
4-Methyl-2-pentanone	108-10-1	88
Acetone	67-64-1	101

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/8/15 10:40 AM
<b>Lab ID:</b>	1501029AR1-06A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010802
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	94
Benzene	71-43-2	92
Bromodichloromethane	75-27-4	87
Bromoform	75-25-2	97
Bromomethane	74-83-9	99
Carbon Disulfide	75-15-0	104
Carbon Tetrachloride	56-23-5	101
Chlorobenzene	108-90-7	93
Chloroethane	75-00-3	107
Chloroform	67-66-3	100
Chloromethane	74-87-3	96
cis-1,2-Dichloroethene	156-59-2	89
cis-1,3-Dichloropropene	10061-01-5	85
Cumene	98-82-8	105
Cyclohexane	110-82-7	100
Dibromochloromethane	124-48-1	87
Ethanol	64-17-5	106
Ethyl Benzene	100-41-4	101
Freon 11	75-69-4	101
Freon 113	76-13-1	93
Freon 114	76-14-2	97
Freon 12	75-71-8	95
Heptane	142-82-5	90
Hexachlorobutadiene	87-68-3	124

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/8/15 10:40 AM
<b>Lab ID:</b>	1501029AR1-06A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010802
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	101
m,p-Xylene	108-38-3	100
Methyl tert-butyl ether	1634-04-4	101
Methylene Chloride	75-09-2	105
Naphthalene	91-20-3	118
o-Xylene	95-47-6	103
Propylbenzene	103-65-1	108
Styrene	100-42-5	110
Tetrachloroethene	127-18-4	88
Tetrahydrofuran	109-99-9	109
Toluene	108-88-3	80
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	93
trans-1,3-Dichloropropene	10061-02-6	86
Trichloroethene	79-01-6	114
Vinyl Chloride	75-01-4	110

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	107
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	92

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/8/15 11:12 AM
<b>Lab ID:</b>	1501029AR1-06B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010805
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	91
1,1,2,2-Tetrachloroethane	79-34-5	93
1,1,2-Trichloroethane	79-00-5	87
1,1-Dichloroethane	75-34-3	86
1,1-Dichloroethene	75-35-4	85
1,2,4-Trichlorobenzene	120-82-1	90
1,2,4-Trimethylbenzene	95-63-6	104
1,2-Dibromoethane (EDB)	106-93-4	92
1,2-Dichlorobenzene	95-50-1	101
1,2-Dichloroethane	107-06-2	94
1,2-Dichloropropane	78-87-5	86
1,3,5-Trimethylbenzene	108-67-8	103
1,3-Butadiene	106-99-0	94
1,3-Dichlorobenzene	541-73-1	100
1,4-Dichlorobenzene	106-46-7	100
1,4-Dioxane	123-91-1	98
2,2,4-Trimethylpentane	540-84-1	90
2-Butanone (Methyl Ethyl Ketone)	78-93-3	90
2-Hexanone	591-78-6	82
2-Propanol	67-63-0	77
3-Chloropropene	107-05-1	94
4-Ethyltoluene	622-96-8	103
4-Methyl-2-pentanone	108-10-1	90
Acetone	67-64-1	82

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/8/15 11:12 AM
<b>Lab ID:</b>	1501029AR1-06B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010805
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	99
Benzene	71-43-2	86
Bromodichloromethane	75-27-4	92
Bromoform	75-25-2	84
Bromomethane	74-83-9	81
Carbon Disulfide	75-15-0	89
Carbon Tetrachloride	56-23-5	95
Chlorobenzene	108-90-7	93
Chloroethane	75-00-3	70
Chloroform	67-66-3	89
Chloromethane	74-87-3	102
cis-1,2-Dichloroethene	156-59-2	89
cis-1,3-Dichloropropene	10061-01-5	88
Cumene	98-82-8	100
Cyclohexane	110-82-7	92
Dibromochloromethane	124-48-1	93
Ethanol	64-17-5	80
Ethyl Benzene	100-41-4	96
Freon 11	75-69-4	94
Freon 113	76-13-1	89
Freon 114	76-14-2	93
Freon 12	75-71-8	103
Heptane	142-82-5	96
Hexachlorobutadiene	87-68-3	103



EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/8/15 11:12 AM
<b>Lab ID:</b>	1501029AR1-06B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010805
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	86
m,p-Xylene	108-38-3	100
Methyl tert-butyl ether	1634-04-4	71
Methylene Chloride	75-09-2	75
Naphthalene	91-20-3	99
o-Xylene	95-47-6	95
Propylbenzene	103-65-1	101
Styrene	100-42-5	95
Tetrachloroethene	127-18-4	90
Tetrahydrofuran	109-99-9	76
Toluene	108-88-3	94
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	88
trans-1,3-Dichloropropene	10061-02-6	85
Trichloroethene	79-01-6	92
Vinyl Chloride	75-01-4	94

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/8/15 11:07 AM
<b>Lab ID:</b>	1501029AR1-07A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010803
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	88
1,1,2,2-Tetrachloroethane	79-34-5	103
1,1,2-Trichloroethane	79-00-5	82
1,1-Dichloroethane	75-34-3	89
1,1-Dichloroethene	75-35-4	97
1,2,4-Trichlorobenzene	120-82-1	137 Q
1,2,4-Trimethylbenzene	95-63-6	120
1,2-Dibromoethane (EDB)	106-93-4	90
1,2-Dichlorobenzene	95-50-1	110
1,2-Dichloroethane	107-06-2	96
1,2-Dichloropropane	78-87-5	86
1,3,5-Trimethylbenzene	108-67-8	115
1,3-Butadiene	106-99-0	92
1,3-Dichlorobenzene	541-73-1	110
1,4-Dichlorobenzene	106-46-7	109
1,4-Dioxane	123-91-1	104
2,2,4-Trimethylpentane	540-84-1	87
2-Butanone (Methyl Ethyl Ketone)	78-93-3	91
2-Hexanone	591-78-6	104
2-Propanol	67-63-0	105
3-Chloropropene	107-05-1	95
4-Ethyltoluene	622-96-8	108
4-Methyl-2-pentanone	108-10-1	86
Acetone	67-64-1	88

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/8/15 11:07 AM
<b>Lab ID:</b>	1501029AR1-07A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010803
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	171 Q
Benzene	71-43-2	90
Bromodichloromethane	75-27-4	87
Bromoform	75-25-2	96
Bromomethane	74-83-9	90
Carbon Disulfide	75-15-0	87
Carbon Tetrachloride	56-23-5	92
Chlorobenzene	108-90-7	89
Chloroethane	75-00-3	95
Chloroform	67-66-3	92
Chloromethane	74-87-3	87
cis-1,2-Dichloroethene	156-59-2	85
cis-1,3-Dichloropropene	10061-01-5	90
Cumene	98-82-8	102
Cyclohexane	110-82-7	90
Dibromochloromethane	124-48-1	85
Ethanol	64-17-5	107
Ethyl Benzene	100-41-4	96
Freon 11	75-69-4	90
Freon 113	76-13-1	88
Freon 114	76-14-2	88
Freon 12	75-71-8	90
Heptane	142-82-5	84
Hexachlorobutadiene	87-68-3	134 Q

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/8/15 11:07 AM
<b>Lab ID:</b>	1501029AR1-07A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010803
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	90
m,p-Xylene	108-38-3	98
Methyl tert-butyl ether	1634-04-4	90
Methylene Chloride	75-09-2	98
Naphthalene	91-20-3	88
o-Xylene	95-47-6	99
Propylbenzene	103-65-1	108
Styrene	100-42-5	111
Tetrachloroethene	127-18-4	84
Tetrahydrofuran	109-99-9	100
Toluene	108-88-3	82
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	81
trans-1,3-Dichloropropene	10061-02-6	81
Trichloroethene	79-01-6	88
Vinyl Chloride	75-01-4	101

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	101
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	94

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/8/15 11:34 AM
<b>Lab ID:</b>	1501029AR1-07AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010804
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	90
1,1,2,2-Tetrachloroethane	79-34-5	104
1,1,2-Trichloroethane	79-00-5	84
1,1-Dichloroethane	75-34-3	92
1,1-Dichloroethene	75-35-4	102
1,2,4-Trichlorobenzene	120-82-1	134 Q
1,2,4-Trimethylbenzene	95-63-6	121
1,2-Dibromoethane (EDB)	106-93-4	90
1,2-Dichlorobenzene	95-50-1	110
1,2-Dichloroethane	107-06-2	94
1,2-Dichloropropane	78-87-5	90
1,3,5-Trimethylbenzene	108-67-8	124
1,3-Butadiene	106-99-0	96
1,3-Dichlorobenzene	541-73-1	111
1,4-Dichlorobenzene	106-46-7	112
1,4-Dioxane	123-91-1	107
2,2,4-Trimethylpentane	540-84-1	90
2-Butanone (Methyl Ethyl Ketone)	78-93-3	92
2-Hexanone	591-78-6	105
2-Propanol	67-63-0	105
3-Chloropropene	107-05-1	100
4-Ethyltoluene	622-96-8	109
4-Methyl-2-pentanone	108-10-1	87
Acetone	67-64-1	92

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/8/15 11:34 AM
<b>Lab ID:</b>	1501029AR1-07AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010804
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	174 Q
Benzene	71-43-2	92
Bromodichloromethane	75-27-4	88
Bromoform	75-25-2	96
Bromomethane	74-83-9	93
Carbon Disulfide	75-15-0	91
Carbon Tetrachloride	56-23-5	94
Chlorobenzene	108-90-7	90
Chloroethane	75-00-3	91
Chloroform	67-66-3	93
Chloromethane	74-87-3	88
cis-1,2-Dichloroethene	156-59-2	88
cis-1,3-Dichloropropene	10061-01-5	91
Cumene	98-82-8	104
Cyclohexane	110-82-7	93
Dibromochloromethane	124-48-1	84
Ethanol	64-17-5	109
Ethyl Benzene	100-41-4	100
Freon 11	75-69-4	92
Freon 113	76-13-1	90
Freon 114	76-14-2	90
Freon 12	75-71-8	92
Heptane	142-82-5	84
Hexachlorobutadiene	87-68-3	133 Q

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
Salisbury

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/8/15 11:34 AM
<b>Lab ID:</b>	1501029AR1-07AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msdj.i / j010804
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	92
m,p-Xylene	108-38-3	102
Methyl tert-butyl ether	1634-04-4	91
Methylene Chloride	75-09-2	97
Naphthalene	91-20-3	90
o-Xylene	95-47-6	102
Propylbenzene	103-65-1	109
Styrene	100-42-5	112
Tetrachloroethene	127-18-4	85
Tetrahydrofuran	109-99-9	101
Toluene	108-88-3	80
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	83
trans-1,3-Dichloropropene	10061-02-6	82
Trichloroethene	79-01-6	89
Vinyl Chloride	75-01-4	103

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	102
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	93

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/8/15 11:35 AM
<b>Lab ID:</b>	1501029AR1-07B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010806
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	98
1,1,2,2-Tetrachloroethane	79-34-5	97
1,1,2-Trichloroethane	79-00-5	95
1,1-Dichloroethane	75-34-3	92
1,1-Dichloroethene	75-35-4	99
1,2,4-Trichlorobenzene	120-82-1	118
1,2,4-Trimethylbenzene	95-63-6	118
1,2-Dibromoethane (EDB)	106-93-4	99
1,2-Dichlorobenzene	95-50-1	108
1,2-Dichloroethane	107-06-2	97
1,2-Dichloropropane	78-87-5	91
1,3,5-Trimethylbenzene	108-67-8	119
1,3-Butadiene	106-99-0	99
1,3-Dichlorobenzene	541-73-1	107
1,4-Dichlorobenzene	106-46-7	108
1,4-Dioxane	123-91-1	100
2,2,4-Trimethylpentane	540-84-1	97
2-Butanone (Methyl Ethyl Ketone)	78-93-3	100
2-Hexanone	591-78-6	92
2-Propanol	67-63-0	88
3-Chloropropene	107-05-1	102
4-Ethyltoluene	622-96-8	114
4-Methyl-2-pentanone	108-10-1	96
Acetone	67-64-1	94

\* % Recovery is calculated using unrounded analytical results.



EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/8/15 11:35 AM
<b>Lab ID:</b>	1501029AR1-07B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010806
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	170 Q
Benzene	71-43-2	93
Bromodichloromethane	75-27-4	99
Bromoform	75-25-2	93
Bromomethane	74-83-9	98
Carbon Disulfide	75-15-0	88
Carbon Tetrachloride	56-23-5	105
Chlorobenzene	108-90-7	96
Chloroethane	75-00-3	76
Chloroform	67-66-3	98
Chloromethane	74-87-3	99
cis-1,2-Dichloroethene	156-59-2	95
cis-1,3-Dichloropropene	10061-01-5	96
Cumene	98-82-8	108
Cyclohexane	110-82-7	98
Dibromochloromethane	124-48-1	99
Ethanol	64-17-5	105
Ethyl Benzene	100-41-4	102
Freon 11	75-69-4	102
Freon 113	76-13-1	101
Freon 114	76-14-2	102
Freon 12	75-71-8	113
Heptane	142-82-5	97
Hexachlorobutadiene	87-68-3	132 Q

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/8/15 11:35 AM
<b>Lab ID:</b>	1501029AR1-07B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010806
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	92
m,p-Xylene	108-38-3	108
Methyl tert-butyl ether	1634-04-4	80
Methylene Chloride	75-09-2	90
Naphthalene	91-20-3	58 Q
o-Xylene	95-47-6	101
Propylbenzene	103-65-1	107
Styrene	100-42-5	109
Tetrachloroethene	127-18-4	94
Tetrahydrofuran	109-99-9	85
Toluene	108-88-3	98
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	94
trans-1,3-Dichloropropene	10061-02-6	89
Trichloroethene	79-01-6	98
Vinyl Chloride	75-01-4	107

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	95
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	102

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/8/15 12:14 PM
<b>Lab ID:</b>	1501029AR1-07BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010807
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	92
1,1,2,2-Tetrachloroethane	79-34-5	92
1,1,2-Trichloroethane	79-00-5	93
1,1-Dichloroethane	75-34-3	91
1,1-Dichloroethene	75-35-4	92
1,2,4-Trichlorobenzene	120-82-1	108
1,2,4-Trimethylbenzene	95-63-6	116
1,2-Dibromoethane (EDB)	106-93-4	98
1,2-Dichlorobenzene	95-50-1	108
1,2-Dichloroethane	107-06-2	100
1,2-Dichloropropane	78-87-5	94
1,3,5-Trimethylbenzene	108-67-8	119
1,3-Butadiene	106-99-0	92
1,3-Dichlorobenzene	541-73-1	104
1,4-Dichlorobenzene	106-46-7	106
1,4-Dioxane	123-91-1	99
2,2,4-Trimethylpentane	540-84-1	92
2-Butanone (Methyl Ethyl Ketone)	78-93-3	92
2-Hexanone	591-78-6	91
2-Propanol	67-63-0	82
3-Chloropropene	107-05-1	99
4-Ethyltoluene	622-96-8	112
4-Methyl-2-pentanone	108-10-1	93
Acetone	67-64-1	86

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/8/15 12:14 PM
<b>Lab ID:</b>	1501029AR1-07BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010807
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	167 Q
Benzene	71-43-2	91
Bromodichloromethane	75-27-4	100
Bromoform	75-25-2	92
Bromomethane	74-83-9	86
Carbon Disulfide	75-15-0	84
Carbon Tetrachloride	56-23-5	102
Chlorobenzene	108-90-7	95
Chloroethane	75-00-3	69 Q
Chloroform	67-66-3	92
Chloromethane	74-87-3	91
cis-1,2-Dichloroethene	156-59-2	89
cis-1,3-Dichloropropene	10061-01-5	96
Cumene	98-82-8	105
Cyclohexane	110-82-7	92
Dibromochloromethane	124-48-1	99
Ethanol	64-17-5	96
Ethyl Benzene	100-41-4	101
Freon 11	75-69-4	97
Freon 113	76-13-1	95
Freon 114	76-14-2	93
Freon 12	75-71-8	104
Heptane	142-82-5	100
Hexachlorobutadiene	87-68-3	121

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS  
Salisbury

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/8/15 12:14 PM
<b>Lab ID:</b>	1501029AR1-07BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd14.i / 14010807
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	82
m,p-Xylene	108-38-3	106
Methyl tert-butyl ether	1634-04-4	77
Methylene Chloride	75-09-2	82
Naphthalene	91-20-3	57 Q
o-Xylene	95-47-6	101
Propylbenzene	103-65-1	106
Styrene	100-42-5	110
Tetrachloroethene	127-18-4	92
Tetrahydrofuran	109-99-9	79
Toluene	108-88-3	98
TPH ref. to Gasoline (MW=100)	9999-9999-038	Not Spiked
trans-1,2-Dichloroethene	156-60-5	92
trans-1,3-Dichloropropene	10061-02-6	86
Trichloroethene	79-01-6	98
Vinyl Chloride	75-01-4	97

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	102

\* % Recovery is calculated using unrounded analytical results.