



August 23, 2013
Ref. No. 31129-106

Mr. Jaspal Walia
Project Manager
New York State Department of Environmental Conservation, Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

Subject: Supplemental Office Area Sub-Slab Gas and Indoor Air Investigation Results
(Performed April 2013)
Leica, Inc. Site; Erie County, Cheektowaga, New York
Inactive Hazardous Waste Disposal Site No. 915156

Dear Mr. Walia:

Enclosed you will find the results of the supplemental sampling event conducted at the Leica, Inc. facility on April 16 through April 20, 2013.

1.0 Sample Types and Locations

A variety of samples were collected during the investigation including outdoor air samples (background), indoor air samples, sub-slab vapor samples, concrete dust samples, concrete chip samples and groundwater grab samples. The samples were collected from a number of different locations including one sample from outside the building, samples from the warehouse area, samples from the main office areas, samples from the loading dock area and samples from the groundwater. Sampling locations are noted in the Table below.

Table 1-1
Sample Types and Collection Areas

| Location | Sample type | Analysis | Number of Samples |
|------------------------|----------------------------|-------------------------|--------------------|
| Outside the building | Outdoor Air | EPA TO-15 | 1 |
| Main Warehouse | Indoor Air | EPA TO-15 | 6 |
| Main Warehouse | Concrete dust via EPA 5035 | EPA 8260 | 5 |
| Main Warehouse | Concrete chip samples | EPA TO-15 of head space | 5 |
| Loading Dock SSDS area | Indoor air and Sub-Slab | EPA TO-15 | 8 (4 IA and 4 SS) |
| Main Office Area | Indoor air and Sub-Slab | EPA TO-15 | 10 (5 IA and 5 SS) |
| Main Warehouse | Groundwater Grab Samples | EPA 8260 | 4 (INT 10 – 13) |

Mr. Jaspal Walia
Page 2
August 23, 2013

See the attached Figures 1, 2 and 3 included in Appendix A for sample locations. The figures depict old and new sampling locations. Although old sampling locations are shown in the figures, only data for the new sampling locations is provided on the figures. Symbols used to show the new 2013 sampling locations are pink asterisks (Indoor air), black circles with plus signs (groundwater grab samples), black dots for Sub-Slab Depressurization System (SSDS) area samples, red dots with an x for office area samples (Figure 2) and pink circles with the letters "CC" inside for concrete samples.

2.0 Sample Collection

2.1 Indoor Air and Sub-slab Vapor Samples

Indoor air and sub-slab vapor combined samples were collected in two locations. Samples SB/IA - 1, 2, 3 and 6 were collected in the loading dock area in order to provide additional data regarding the success of the SSDS installed in 2012. This data indicates the SSDS system is successfully reducing sub-slab and indoor air TCE concentrations in the loading dock area.

Indoor air and sub-slab samples were also collected at locations 8hr-051 through 8hr-055 in the main office area to further assess the air quality in this portion of the building.

Indoor air samples not combined with sub-slab samples were also collected in several areas. Samples 8hr-046 through 050 and 056 were collected in order to further assess the indoor air quality in specific areas of the building within the main warehouse.

All indoor air and sub-slab Samples were collected in accordance with the Supplemental Office Area Sub-Slab Gas and Indoor Air Investigation Work Plan, prepared by EnergySolutions in February 2012 and approved by the NYSDEC via email dated March 27, 2013. A copy of the Sampling Plan is included as Appendix B.

Based on the fact that a NYSDOH Indoor Air Quality Questionnaire and Building Inventory Form was completed during past sampling events, and the effects of ancillary stored chemicals are expected to be relatively insignificant compared to the effects from the existing contamination, another survey was not completed for this sampling event.

Six liter SUMMA canisters were used for air/vapor sample collection and sampling occurred over a five day period from April 16 through April 20, 2013. Canisters were equipped with regulators provided by the laboratory which were set to provide air intake for approximately 8 hours.

A tee was utilized to connect three pieces of Teflon tubing. The first length of tubing was connected to the SUMMA canister, the second connected to a photoionization detection (PID) with a low-flow vacuum air pump and the third tube sealed in the hole in the floor using modeling clay. The valve on the line connected to the PID was opened and the vacuum pump

Mr. Jaspal Walia
Page 3
August 23, 2013

was used to purge three volumes of the tubing and monitoring of the air. Following purging activities, the vacuum pump was turned off and the valve on the tubing connected to the Suma Canister was opened to allow airflow to the canister. Pressure readings were recorded for each canister at the end of the test. Negative pressure was still present in all canisters at the end of the tests. Readings are included in the chain-of-custody documents.

Sub-slab samples SS 8hr-051 through 055 and SB 1, 2, 3 and 6, collected in accordance with NYSDOH protocols, were collected using a helium shroud in order to confirm that the samples were collected from the sub-slab and not diluted by indoor air. All nine samples collected in this manner were analyzed for the presence of helium by the laboratory. Helium concentrations in all six samples were at or below 2,454 mg/m³ indicating that although there were some minor seal leaks, samples were not significantly compromised with the helium enriched air from within the shroud and the results are representative of the sub-slab concentrations.

The SUMMA canisters were relinquished under chain-of-custody to Columbia Analytical Services for analysis. The samples were analyzed using United States Environmental Protection Agency (EPA) Method TO-15.

2.2 Concrete Samples

Concrete samples were collected in accordance with the approved plan. Two types of samples were collected from the five selected locations including pulverized samples and chip samples both created through the use of a concrete hammer drill. Both types of samples were collected at each of the five locations. The samples were collected from within the concrete to a depth of approximately two inches. As the drill bit is advanced into the concrete, the drill flights bring a large portion of the pulverized concrete up to the floor surface and it is deposited in a pile around the hole. This pulverized dust was collected and placed in a vial and preserved in accordance with EPA method 5035 sampling protocols.

Once the dust was removed from the area surrounding the hole and from within the hole itself, concrete chips, also created by the hammer drill, were still present in the bottom of the hole. These chips were collected and placed in a 4 ounce sampling container for eventual head space analysis. Chips were sent to the laboratory and placed immediately into a sealed chamber which was connected directly to a gas chromatograph. The chip samples were allowed to off-gas for one week in the sealed chamber, and then the head space gas was drawn into the chromatograph and analyzed using EPA method TO-15. Concrete data is summarized in Table 1.

2.3 Groundwater Samples

Groundwater data was also collected from the Site as an integral part of this portion of the investigation. The original Second Supplemental Sub-Slab Gas Investigation Workplan implemented in September of 2012, proposed the collection of groundwater grab samples from four locations within the building including temporary wells INT 10, INT 11, INT 12, and INT

Mr. Jaspal Walia
Page 4
August 23, 2013

13 which were³ installed in September of 2012. Groundwater grab sample locations are shown on Figure 1. Wells INT-12 and 13 had been sampled in the past; however, this round of sampling was the first time groundwater was available in wells INT-10 and 11.

3.0 Analytical Results

3.1 Indoor Air and sub-slab data

Indoor air sample results included in Table 2 in Appendix C were compared to published OSHA PEL workplace standards. OSHA has established eight hour time weighted average indoor air concentration action levels for several volatile organic compounds (VOCs) in the 1910.1000 guidance including the main Contaminant of Concern (COC) TCE. Table 3 includes a summary of the sub-slab vapor concentrations. Copies of Tables 2 and 3 are included in Appendix C.

3.1.1 Warehouse

As in previous sampling events, trichloroethylene (TCE), was the contaminant most frequently detected during the vapor intrusion survey. TCE was detected in all samples collected from within the building and beneath the floor with the exception of the samples collected from one location within the SSDS area. The SSDS operation has successfully reduced TCE concentrations to non-detectable levels in the sub-slab vapors at location SB-2. The highest TCE concentration collected from the main warehouse area indoor air was 33 ug/m³ at location 8hr-056 which is located in the immediate vicinity of the former Plating Shop suspected to be a source area; these results are consistent with previous data from this area (Sample 8hr-045 at 21 ug/m³, September 2012).

As expected, Indoor air concentrations of TCE at other sampling locations in the northern and southern areas of the main warehouse, including samples 8hr-046 through 050 were lower than concentrations typically seen in the central portions of the warehouse near the potential release areas. Samples 8hr-049 and 050, collected in the far northern portion of the main warehouse, contained TCE concentrations at 1.7 ug/m³ and 0.76 ug/m³ respectively. These results were expected based on the distance from the main sources of contamination. Indoor Air samples 8hr-046 through 048 contained slightly higher TCE concentrations at 3.1 ug/m³, 4.3 ug/m³ and 3.4 ug/m³ respectively. The slightly elevated concentrations in these areas may be the result of additional sources in the area including sub-slab vapors at INT-10 and INT-11 as well as possible TCE contamination in the concrete floor.

3.1.2 Main Office Area

The highest TCE concentration detected in indoor air samples collected from the main office area was 3.1 ug/m³ at location 8hr-052. The highest TCE concentration detected in sub-slab samples collected from the office area was 950 ug/m³ at location 8hr-053. The next highest reading in the sub-slab was 150 ug/m³ detected at location 8hr-051. These results suggest that although the past

Mr. Jaspal Walia

Page 5

August 23, 2013

use of cleaning solvents appears to have affected the office area, the influence is somewhat limited. As in the warehouse area, all indoor air results are significantly below the OSHA PELs. The indoor air concentrations at 8hr-053 are only 1.8 ug/m^3 , significantly lower than the sub-slab concentration of 950 ug/m^3 in this area. The results yield a Vapor Attenuation Factor (VAF) of 0.0019, significantly lower than the EPA VAF of 0.03 for sub-slab soil gas recommended in the OSWER final guidance for assessing and mitigating vapor intrusion suggesting that the indoor migration from the sub-slab concentrations is limited in this area.

3.1.3 Loading Dock Area (SSDS Area)

The highest TCE concentration detected in indoor air samples collected from the loading dock area was 8.0 ug/m^3 in sample location IA-6 and the highest concentration detected in sub-slab samples collected from the area was $2,700 \text{ ug/m}^3$ in sample SB-1. Results in this area indicate that the SSDS is successfully reducing the TCE concentration in the sub-slab vapors. A summary of this data is included in Table 4 in Appendix C. VOC concentrations in sub-slab vapors have dropped for all parameters at locations SB-1 and SB-2. These locations are within the immediate proximity (10 to 20 feet) of the vacuum draw points and significant reductions in these areas are expected. The TCE concentration in the sub-slab sample at location SB-1 which was once as high as $190,000 \text{ ug/m}^3$ has now been reduced to only $2,700 \text{ ug/m}^3$, a reduction of more than 98 %. TCE concentrations at location SB-2, once at a concentration of $12,000 \text{ ug/m}^3$ are now at non-detectable levels. The laboratory data is included as Appendix D. All indoor air concentrations for each parameter tested are below the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) at every location. Figure 2 depicts the indoor air and sub-slab data collected in April 2013.

3.2 Concrete Data

The concrete chip sample analysis was performed with the intention of simulating the potential evaporation of VOCs from the concrete that may be occurring at the facility. Chlorinated solvents were detected in the concrete chip sample head space analyses as suspected suggesting that this volatilization is occurring. TCE was detected in the head space of four of the five samples excluding the sample from the office area intended to represent background/unaffected conditions. TCE concentrations ranged from a low of 6.4 ug/m^3 in sample CC-01 to a maximum of 110 ug/m^3 in sample CC-02. DCE was also detected in sample CC-02 at a concentration of 61 ug/m^3 .

Several contaminants were detected at minor concentrations in the pulverized concrete dust samples, including 2-butanone (MEK), 2-hexanone, acetone and xylenes. The presence of MEK is not unexpected, based on its use in paints, rubber-based industrial cements and printing inks. The source may have been historic or current Sam-Son operations. 2-hexanone is most likely the result of historic use as it was formerly used as a paint thinner, but is no longer used in the US. The xylenes are also most probably present as a result of historic use.

Mr. Jaspal Walia

Page 6

August 23, 2013

Although these alternate contaminants were detected in the concrete dust samples, the main site contaminant TCE was not detected in any of the concrete dust samples.

Concrete data is summarized in Table 1 in Appendix C. The presence of significant TCE in the head space analyses when compared to the lack of TCE in any of the dust samples suggests that the procedure utilized to collection the dust samples was too aggressive and contaminants evaporated during the sample collection process. The head space data further suggests that the presence of TCE in the concrete floors may be a continuing source of contamination in the indoor air. Laboratory data is included in Appendix D.

3.3 Groundwater Data

The new groundwater data collected from wells INT 12 and INT 13 during this sampling round continues to confirm the site conceptual model. Sample INT 12, collected from a well located in between the original dry well release just outside the loading dock area (near MW-16R and 16A) and well INT 2, once again contained TCE at a concentration of 2,400 ug/l, identical to the concentration detected in the October 2012 sample. This concentration is consistent with the concentrations originally detected in MW-24, but significantly lower than the concentration of 82,000 ug/l detected in well INT 2 in 2011. There are several plausible explanations for these variations. The differential between these concentrations may suggest that although well INT 2 may be impacted to some degree from the original dry well release, there may be other sources of TCE contributing to this well. A second explanation may be that the concentrations in well INT-12 have been reduced by the influence of the HRC injection (similar to the reductions observed in the MW-24 well pair); however, this reducing influence may not have reached well INT-2.

In addition, concentrations in INT-13 continue to confirm the conceptual model in this area as well. The low TCE concentration of 160 ug/l (210 ug/l in October 2012) in the sample collected from well INT-13 continues to indicate that the groundwater in this area beneath the former Plating Shop is not heavily contaminated. This groundwater data suggests that the high concentrations (51,000 ug/m³) in the sub-slab vapors at location 8hr-037 are probably the result of surface spills from inside the building and not the result of evaporation from the groundwater migrating beneath the area.

Data from samples collected from wells INT-10 and INT-11 indicates that there may be two separate sources, one in the vicinity of each of these wells. Table 5 entitled Data Summary and Correlation by Area, provides information regarding the correlation between groundwater and sub-slab data in the various areas of the facility. Based on this information, it appears that the contamination detected in wells INT-10, INT-11, and INT 2 may be the result of different source areas. These conclusions are based on the following. Geologic cross sections of the area with groundwater data added are provided as Figures 4, 5 and 6.

Mr. Jaspal Walia

Page 7

August 23, 2013

When compared to sample INT-2, the sample collected from well INT-11 contains additional compounds (TCA and PCE) and differing ratios of parent to daughter products. Sample INT-2 TCE (82,000 ug/l) to DCE (9,100 ug/l) ratios are 900% whereas the ratios in well INT-11 are 0.06%. This difference could possibly be the result of reductive de-chlorination between the two wells; however, an additional line of evidence corroborates the thought that there are additional contaminant contributions affecting the groundwater between these two wells. Past sub-slab data indicates there are very low TCE concentrations in the sub-slab vapors in the area to the south of INT-2 between wells INT-2 and INT-11. These low TCE vapor concentrations are represented by samples 011 (TCE 130 ug/m³), 025 (TCE 3.5 ug/m³), 017 (TCE 220 ug/m³) and 018 (TCE 65 ug/m³). These low sub-slab concentrations between INT-2 and INT-11 suggest that the groundwater is not highly contaminated immediately downgradient of location INT-2, but the TCE concentrations in the sub-slab at location INT-11 rise once again to 3,600 ug/m³ in sample 008 and 3,500 ug/m³ in sample 027. This variation in the TCE concentrations in the sub-slab vapors suggests that the groundwater contamination may not be continuous from INT-2 to INT-11 and that the elevated concentrations at location INT-11 may be the result of local surface spills and not migration of groundwater from location INT-2 to the northeast.

Although samples from wells INT-2 and INT-10 contain similar compounds with similar parent/daughter product ratios, past sub-slab data once again indicates there are very low TCE concentrations in the sub-slab vapors in the area south west of INT-2 between the two wells represented by samples 012 (TCE 23 ug/m³), 013 (TCE 6.9 ug/m³), 015 (TCE 18 ug/m³) and 033 (TCE 390 ug/m³), whereas the TCE concentrations in the sub-slab immediately above INT-10 rises once again to 60,000 ug/m³ in sample 028 and 51,000 ug/m³ in sample 8hr-038. In addition, groundwater data from well INT-3 located in between wells INT-2 and well INT-10 contains very low concentrations of TCE (200 ug/l). Both of these data sets suggest that the groundwater contamination is not continuous from INT-2 to INT-10 and that the elevated concentrations at location INT-10 may be the result of surface spills in the area and not migration of groundwater from location INT-2.

A summary of the groundwater data collected from INT-10 through INT-13 is included in Table 6.

4.0 Response Actions

The following potential future actions are planned or under consideration.

- Continued assessment of the SSDS system through monitoring of the vapors in the loading dock area.
Install additional bedrock monitoring wells inside the main warehouse areas in order to provide data which may be used to further delineate the extent of groundwater contamination beneath the building, both laterally and vertically.

Mr. Jaspal Walia
Page 8
August 23, 2013

If you have any questions regarding this report, please feel free to call me at 801-303-1092.

Sincerely,



Robert E. McPeak, Jr., P.E., LEP, LSRP
Department Manager, Environmental Services

Enclosure

cc: C. Grabinski
J. Egan
M. Forcucci, NYSDOH

Mr. Jaspal Walia
Page 9
August 23, 2013

Enclosures:

Appendix A Figures

| | |
|----------|---|
| Figure 1 | Site Plan, Outdoor Air Sample Location |
| Figure 2 | Supplemental Office Area Sub-Slab gas and Indoor Air Investigation Results, Warehouse |
| Figure 3 | Supplemental Office Area Sub-Slab gas and Indoor Air Investigation Results, Office Area |
| Figure 4 | Geological Cross Section Plan |
| Figure 5 | A – A' Geological Cross Section |
| Figure 6 | B – B' Geological Cross Section |

Appendix B Sampling Plan

Appendix C Data Tables

| | |
|---------|---|
| Table 1 | Summary of Concrete Chip Sample Data |
| Table 2 | Summary of Indoor Air Sample Results |
| Table 3 | Summary of Sub-slab Sample Results |
| Table 4 | Summary of Sub-slab Depressurization System Performance Monitoring Data |
| Table 5 | Data Summary and Correlation by Area |
| Table 6 | Summary of Groundwater Data |


Appendix D Laboratory Data

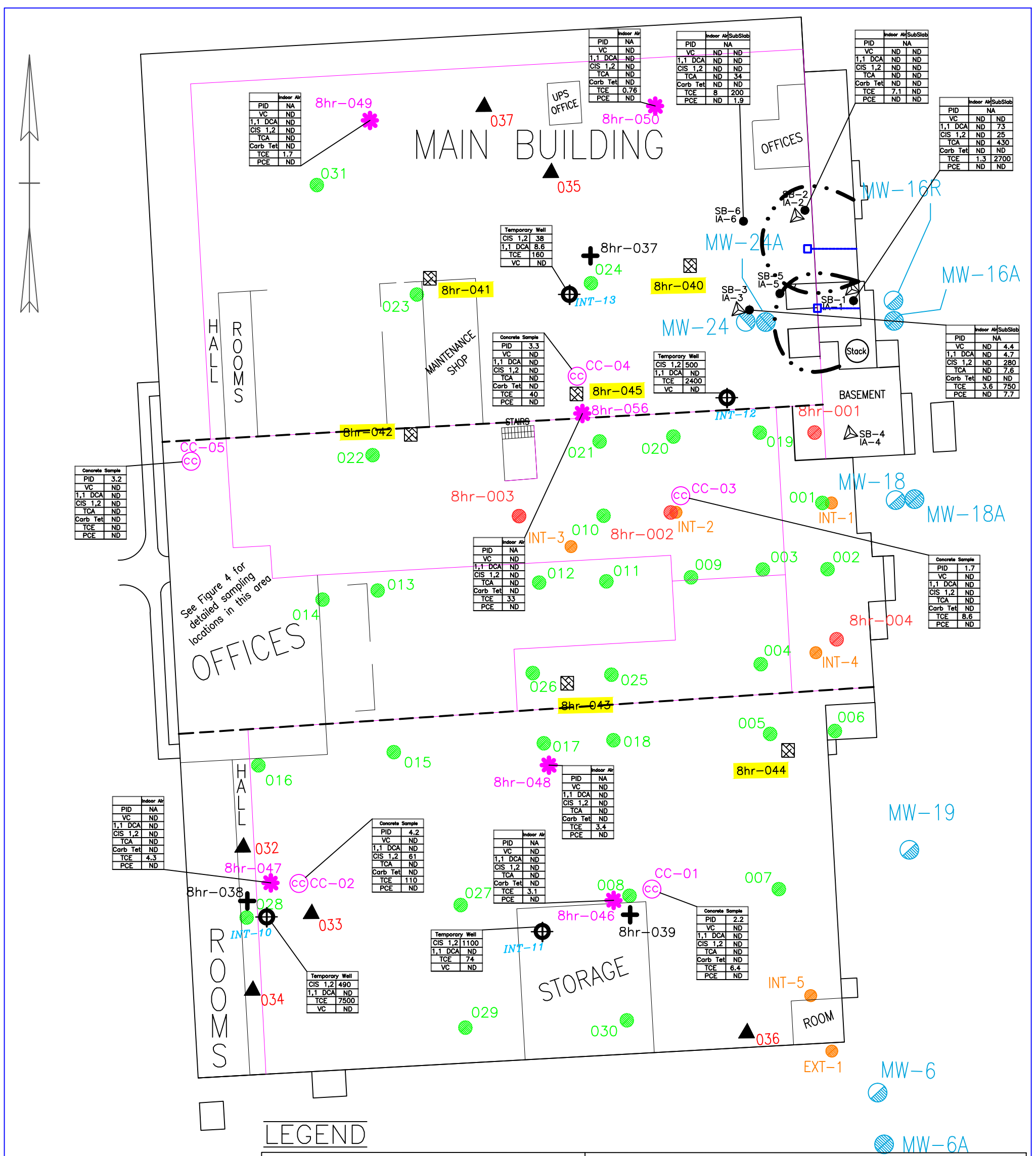


APPENDIX A FIGURES

- Figure 1 Site Plan, Outdoor Air Sample Location
- Figure 2 Supplemental Office Area Sub-Slab gas and Indoor Air Investigation Results,
Warehouse
- Figure 3 Supplemental Office Area Sub-Slab gas and Indoor Air Investigation Results,
Office Area
- Figure 4 Geological Cross Section Plan
- Figure 5 A – A' Geological Cross Section
- Figure 6 B – B' Geological Cross Section

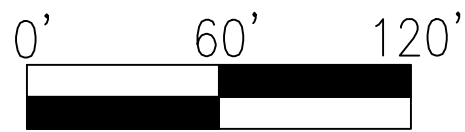


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| REVISION NO. | | | | DRAWING |



LEGEND

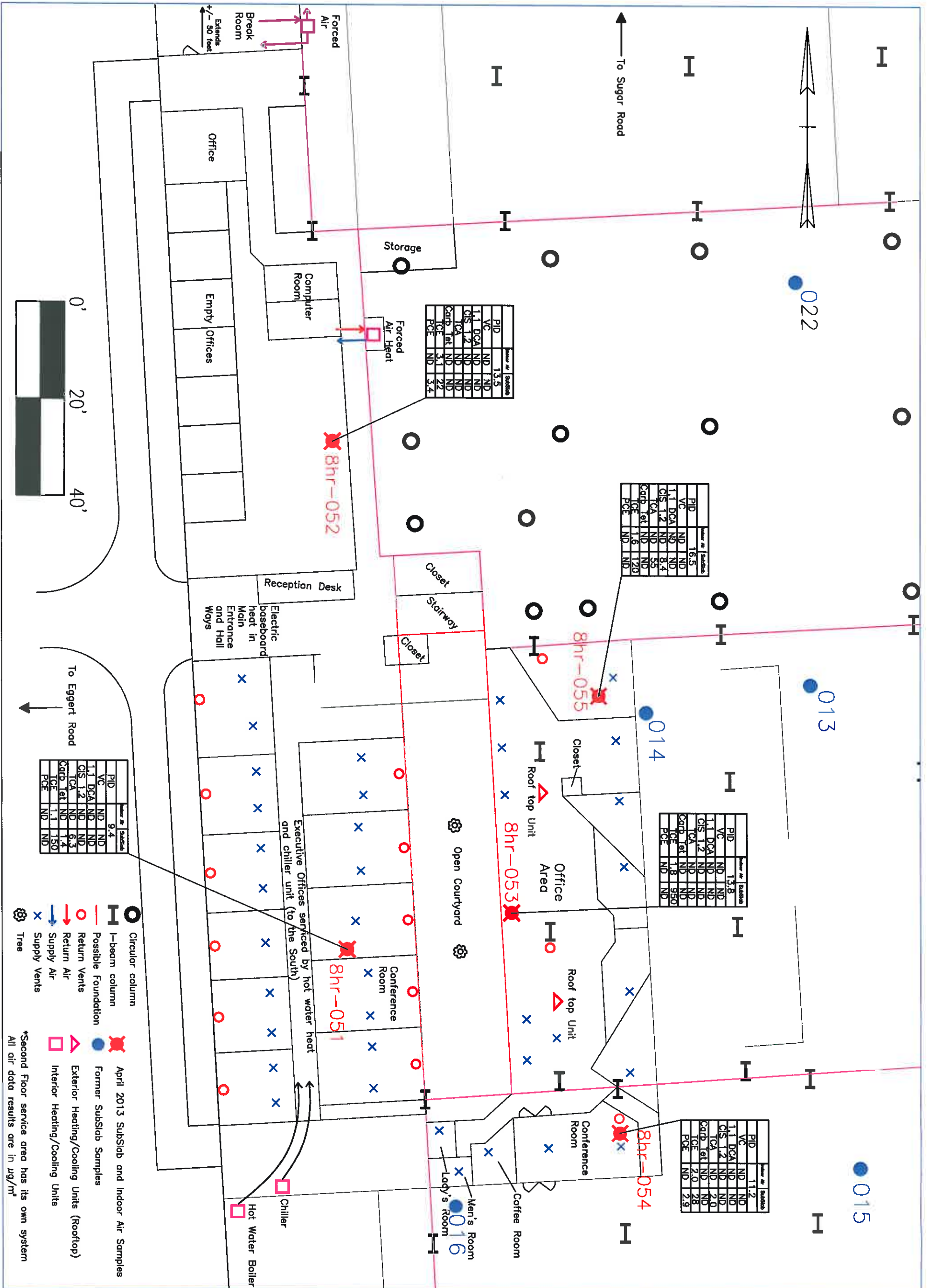
| *NEW SAMPLE RESULTS APRIL 2013* | | FORMER DATA | |
|--|---|-------------|--|
| | SSDS draw points and piping | | 8hr-037 = 8 hour subslab correlation samples (9/2012) |
| | Approximate limits of SSDS zone of influence | | 033 = 30-minute Subslab samples (9/2012) |
| | Indoor Air Sample, $\mu\text{g}/\text{m}^3$ | | INT-12 = Groundwater grab samples (9/2012) |
| | Concrete Sample, $\mu\text{g}/\text{m}^3$ | | 8hr-042 = DOH method indoor air & subslab samples (9/2012) |
| | SSDS Indoor Air and Subslab Air Samples, $\mu\text{g}/\text{m}^3$ | | INT-1 = GROUNDWATER GRAB SAMPLES (6/2011) |
| | Groundwater grab samples (4/2013), $\mu\text{g}/\text{L}$ | | SB-4 = INDOOR AIR AND SUBSLAB AIR SAMPLES (3/2010) |
| NOTE: All air results are in $\mu\text{g}/\text{m}^3$ All groundwater results are in $\mu\text{g}/\text{L}$ NA: Not Analyzed | | | Courtyard Foundation |
| (1) Solid concrete samples were also analyzed from each location, all ND for TCE | | | Possible Foundation |
| | | | Non-support Interior Walls |



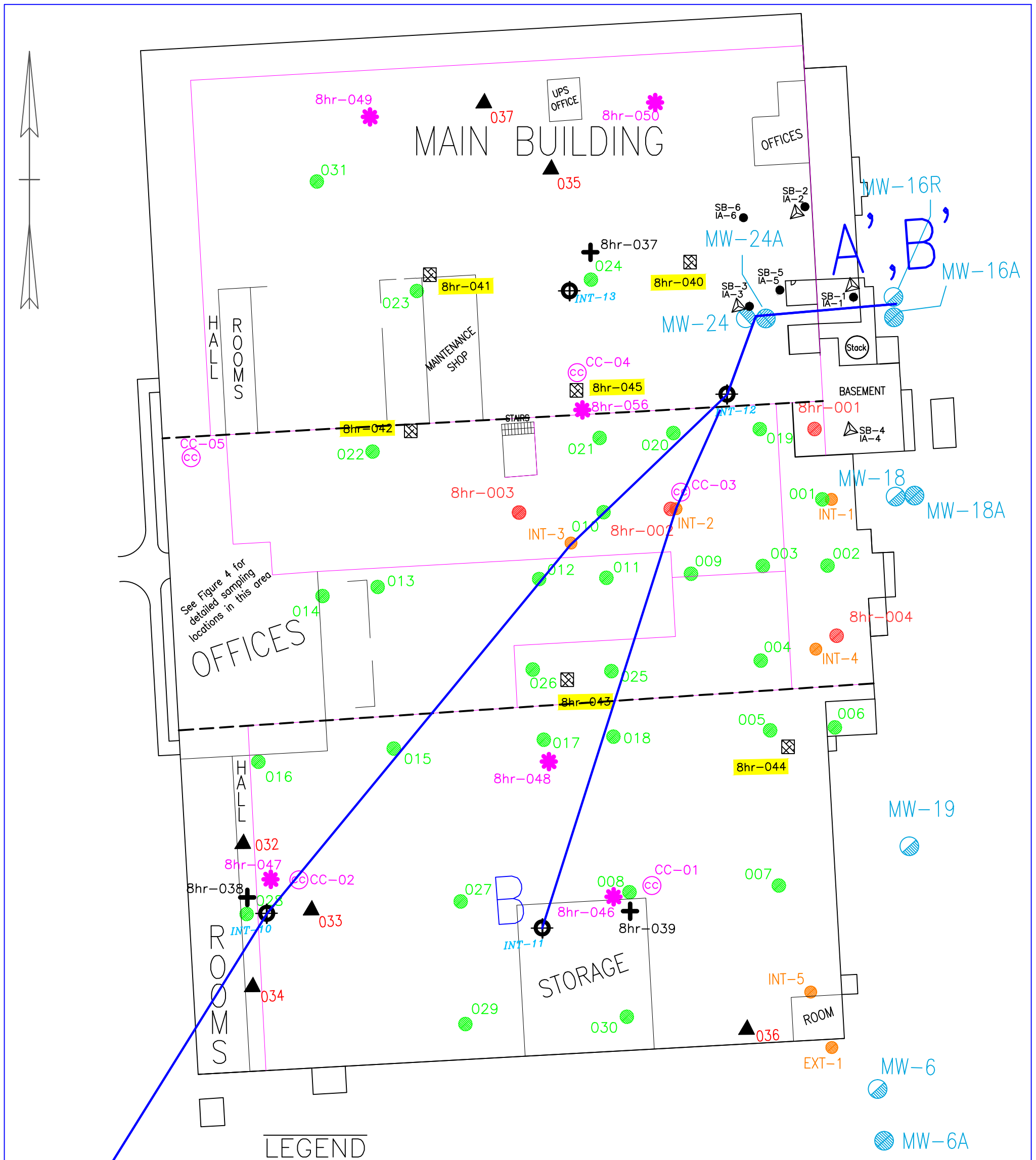
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| | | | SCALE: | DATE: |
| | | | See Scalebar | 8/21/13 |
| | | | BY: MT | CK: RM |
| | | | FIGURE # | 2 |



100 MILL PLAIN RD
DANBURY, CT. 06811
(203)797-8301



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| DOCUMENT CONTROL NO. | PROJECT | LEICA MICROSYSTEMS INC. 203 EGGERT RD CHEEKTOWAGA, NY | | PROJECT # 137015 |
| | REVISION NO. | DRAWING | | Supplemental Office Area Sub-Slab gas and Indoor Air Investigation Results, Office Area |
| | | | 100 MILL PLAIN RD DANBURY, CT. 06811 (203)797-8301 | |



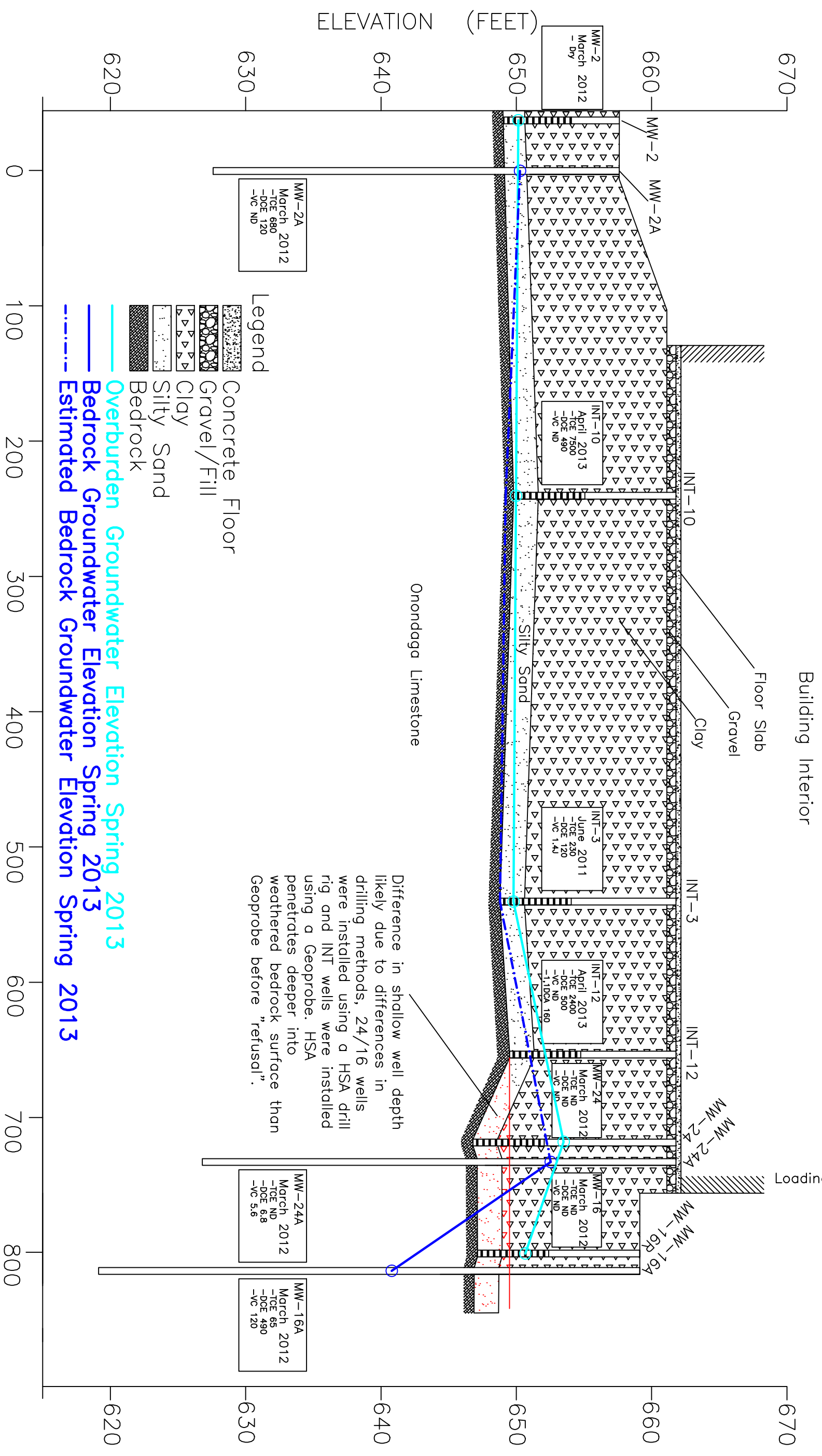
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| *NEW SAMPLE RESULTS APRIL 2013* | | FORMER DATA | |
|--|---|-------------|--|
| | Indoor Air Sample, $\mu\text{g}/\text{m}^3$ | | 8hr-037 = 8 hour subslab correlation samples (9/2012) |
| | Concrete Sample, ⁽¹⁾ $\mu\text{g}/\text{m}^3$ | | 033 = 30-minute Subslab samples (9/2012) |
| | SSDS Indoor Air and Subslab Air Samples, $\mu\text{g}/\text{m}^3$ | | INT-12 = Groundwater grab samples (9/2012) |
| | Groundwater grab samples (4/2013), $\mu\text{g}/\text{L}$ | | 8hr-042 = DOH method Indoor air & subslab samples (9/2012) |
| NOTE: All air results are in $\mu\text{g}/\text{m}^3$ All groundwater results are in $\mu\text{g}/\text{L}$ | | | INT-1 = GROUNDWATER GRAB SAMPLES (6/2011) |
| NA: Not Analyzed | | | SB-4 = INDOOR AIR AND SUBSLAB AIR SAMPLES (3/2010) |
| ⁽¹⁾ Solid concrete samples were also analyzed from each location, all ND for TCE | | | MW-2 = OVERBURDEN MONITORING WELL |
| | | | MW-2A = BEDROCK MONITORING WELL |
| | | | 025 = 30 MINUTE SUBSLAB SAMPLES (9/2011) |
| | | | 8hr-002 = DOH METHOD INDOOR AIR AND SUBSLAB SAMPLES (9/2011) |
| | | | Courtyard Foundation |
| | | | Possible Foundation |
| | | | Non-support Interior Walls |

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| REVISION NO. | DRAWING | Geological Cross Section Plan | | FILENAME: | SCALE: |
| | | | | BY: MT | CK: RM |
| | | | | FIGURE # | 4 |

A

A



Difference in shallow well depth likely due to differences in drilling methods, 24/16 wells were installed using a HSA drill rig and INT wells were installed using a Geoprobe. HSA penetrates deeper into weathered bedrock surface than Geoprobe before "refusal".

- Legend**
- Concrete Floor
 - Gravel/Fill
 - Clay
 - Silty Sand
 - Bedrock
- Groundwater Elevation Lines:**
- Overburden Groundwater Spring 2013
 - Bedrock Groundwater Spring 2013
 - Estimated Bedrock Groundwater Elevation Spring 2013

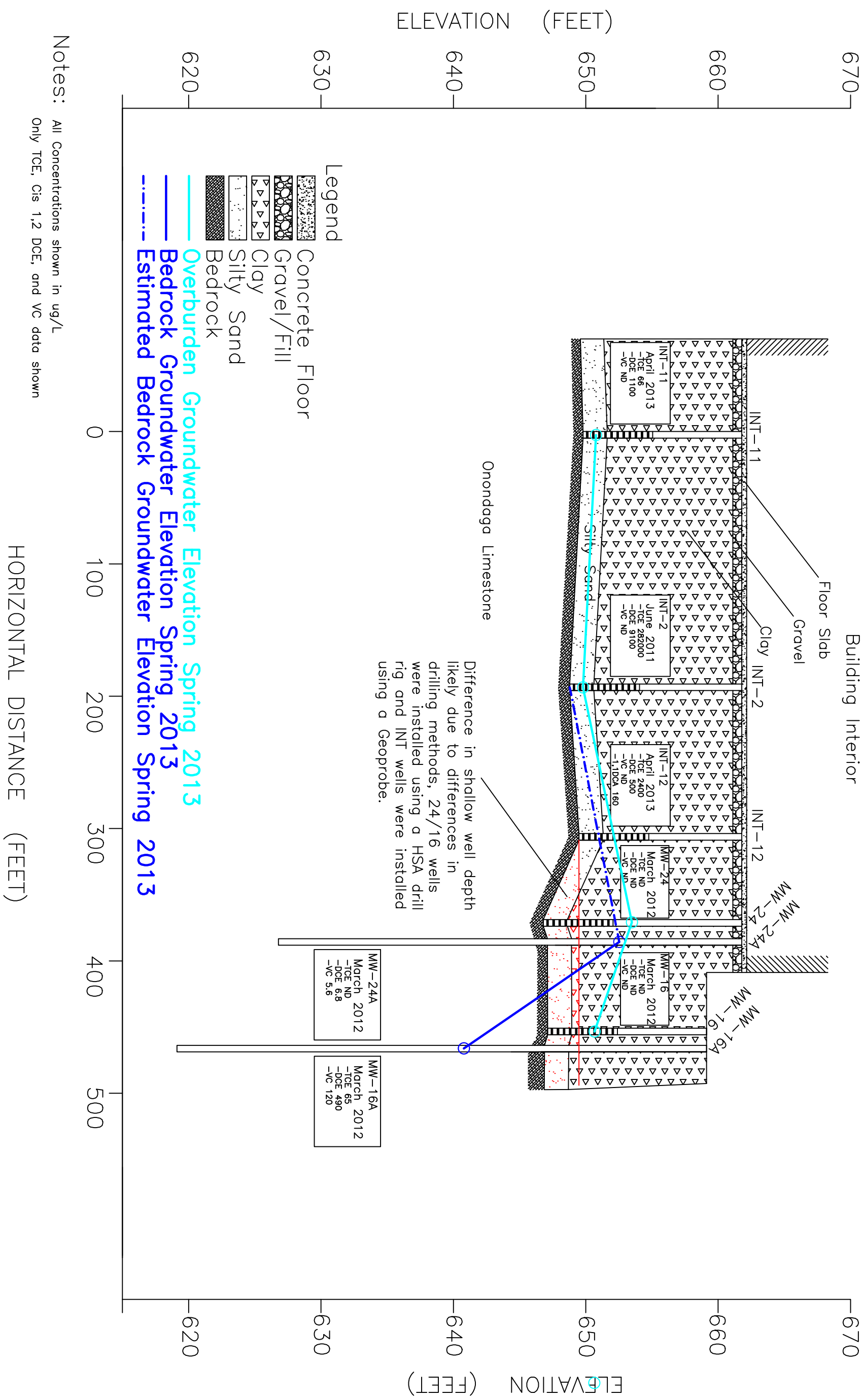
Notes: All Concentrations shown in ug/L
Only TCE, Cis 1,2 DCE, and VC data shown

HORIZONTAL DISTANCE (FEET)

| | | | | | |
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| DOCUMENT CONTROL NO. | PROJECT | LEICA MICROSYSTEMS INC. | | PROJECT # | 137015 |
| | DRAWING | | | A-A' Geological Cross Section | 100 MILL PLAIN RD DANBURY, CT. 06811 (203)797-8301 |

B

B'



Difference in shallow well depth likely due to differences in drilling methods, 24/16 wells were installed using a HSA drill rig and INT wells were installed using a Geoprobe.

| | | | | | |
|----------------------|--------------|-------------------------|--|-------------------------------|-----------|
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| | REVISION NO. | DRAWING | | B-B' Geological Cross Section | FILENAME: |
| | | | | SCALE: | DATE: |
| | | | | See Scalebar | 6/21/13 |
| | | | | BY: MT | CK: RM |
| | | | | FIGURE # | 6 |



APPENDIX B SAMPLING PLAN



**SUPPLEMENTAL OFFICE AREA SUB-SLAB GAS AND INDOOR
AIR INVESTIGATION WORK PLAN**

**Leica, Inc. Site
Eggert and Sugar Roads
Town of Cheektowaga, Erie County, New York
Site ID Number 915156**

Prepared for

**Leica, Inc., c/o Videojet Tech
1500 Mittell Boulevard
Wood Dale, Illinois 60191**

And

**New York State Department of Environmental Conservation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999**

February 2013

**SUPPLEMENTAL OFFICE AREA SUB-SLAB GAS AND INDOOR AIR
INVESTIGATION WORK PLAN**

**Leica, Inc. Site
Eggert and Sugar Roads
Cheektowaga, New York
NYSDEC Site ID 915156**

Project No. 137015

Revision 0

Leica, Inc., c/o Videojet Tech
1500 Mittell Boulevard
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Prepared for:

and

NYSDEC, Region 9
270 Michigan Avenue
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Danbury, CT 06811

Authored By:

Daniel R. Slywka
Environmental Scientist

Date

Reviewed By:

Mark Cambra, P.E., LEP
Senior Environmental Engineer

Date

Approved By:

Robert E. McPeak, Jr., P.E., LEP
Manager, Environmental Services

Date

- Non-Proprietary
- Proprietary
- Restricted Information
- Safeguards Information
- Sensitive Security Information

- New
- Title Change
- Revision
- Rewrite
- Cancellation

Effective
Date

Table of Contents

| <u>Section</u> | <u>Page</u> |
|--|-------------|
| ACRONYMS AND ABBREVIATIONS | i |
| 1.0 INTRODUCTION..... | 1 |
| 1.1 Purpose..... | 1 |
| 1.2 References | 2 |
| 1.3 Background | 3 |
| 2.0 SCOPE OF WORK | 6 |
| 2.1 Additional Groundwater Grab Samples | 6 |
| 2.2 Sub-Slab and Indoor/Ambient Air samples..... | 7 |
| 2.3 Additional Data Gathering | 8 |
| 2.4 Sample Methodology | 10 |
| 3.0 QUALITY ASSURANCE SAMPLING | 12 |
| 3.1 Groundwater Quality Assurance Sampling..... | 12 |
| 3.2 Air Quality Assurance Sampling..... | 13 |
| 4.0 DATA MANAGEMENT | 13 |
| 4.1 Sample Control and Analysis | 13 |
| 4.2 Field Data | 13 |
| 4.3 Laboratory Data | 14 |
| 4.4 Data Review and Reporting | 14 |

FIGURES

- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Proposed Building-Wide Sampling and Testing Location
- Figure 4 Proposed Office Area Sampling Locations

ACRONYMS AND ABBREVIATIONS

| | |
|-----------------|---|
| COC | Chain-of-Custody |
| CRA | Conestoga-Rovers & Associates |
| CSM | Conceptual Site Model |
| DCE | cis-1,2-Dichloroethene |
| EnergySolutions | EnergySolutions, LLC |
| EPA | United States Environmental Protection Agency |
| HRC | Hydrogen Release Compound® |
| Leica | Leica, Inc. |
| NELAP | National Environmental Laboratory Accreditation Program |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health |
| OSHA | Occupational Safety and Health Administration |
| PELs | Permissible Exposure Limits |
| PID | Photo-Ionization Detector |
| QA | Quality Assurance |
| QC | Quality Control |
| RI/FS | Remedial Investigation/Feasibility Study |
| ROD | Record of Decision |
| Site | Leica, Inc. Site: NYSDEC Site ID Number 915156 |
| SOP | Standard Operating Procedure |
| TCA | 1,1,1-Trichloroethane |
| TCE | Trichloroethene |
| VC | Vinyl Chloride |
| VOC | Volatile Organic Compound |

1.0 INTRODUCTION

On behalf of Leica, Inc., c/o Videojet Tech of Wood Dale, Illinois (Leica), EnergySolutions, LLC (EnergySolutions) has prepared this **SUPPLEMENTAL OFFICE AREA SUB-SLAB GAS AND INDOOR AIR INVESTIGATION WORK PLAN** for the former Leica facility located on the Leica, Inc. site (Site) at Eggert and Sugar Roads, Cheektowaga, New York (New York State Department of Environmental Conservation (NYSDEC) Site ID Number 915156). A Site Location Map is included as Figure 1. A Site Plan showing the building, site features, and monitoring well locations is included as Figure 2. Proposed sample locations and building layout are included in Figure 3 and Figure 4.

This work plan is prepared in response to and based on the results from the implementation of the *Supplemental Sub-Slab Gas Investigation Work Plan*, CS-OP-PN-060, Rev. 0 (Ref. No. 1.1.1) completed in September of 2011 and the Second supplemental Sub-Slab Gas Investigation Work Plan, Central Building Areas, completed in September 2012 and reported to NYSDEC in February of 2013 (Reference 1.2.14). This *Supplemental Office Area Sub-Slab Gas and Indoor Air Investigation Work Plan* is an addition to the investigation/mitigation effort proposed in the *Vapor Mitigation Work Plan* prepared by EnergySolutions in November 2010 (Ref. No. 1.1.3).

Following completion of the Second *Supplemental Sub-Slab Gas Investigation Work Plan*, Central Building Areas, performed in September 2012, it became evident that elevated concentrations of Contaminants of Concern (COCs) could be present in the former Leica facility office areas to the west of the samples collected. These office areas are still active and are currently occupied by SamSon Warehousing employees. This supplemental plan for the office and warehouse areas will be implemented in order to further assess the concentrations of Volatile Organic Compounds (VOCs) in the Sub-Slab vapors and indoor air in the warehouse and office areas located in the far western side of the building. Data collected during this investigation will be used when making decisions regarding the need for mitigation in the area.

1.1 Purpose

The purpose of this work plan is two-fold. The first is to fill in data gaps that were evident following the completion of the Second *Supplemental Sub-Slab Gas Investigation Work Plan*, Central Building Areas. During the implementation of the Second *Supplemental Sub-Slab Investigation Work Plan*, 22 soil gas and ambient air samples (including one duplicate) were collected in addition to two (2) groundwater grab samples. This work plan has been generated based on the results of those sample efforts. The second purpose is to collect air data in the vicinity of the entry way and loading dock area in the northeastern corner of the building in order to assess the success of the new sub-slab depressurization system (SSDS) which was installed in late 2012.

The scope of this work plan is to obtain two (2) additional groundwater grab samples and five (5) additional Sub-Slab and Ambient/Indoor air samples at

locations within the office areas at the former Leica facility to further delineate the extent of groundwater and soil vapor contamination under the floor and within the office areas. This supplemental office area investigation will also include collection of five additional indoor air samples in the far northern and southern sections of the main warehouse, a review of air flow patterns and pressure differentials in several areas of the building, collection of concrete samples, and collection of additional Groundwater Grab Samples. Finally, the investigation will include collection of indoor air and subslab samples from **four** locations in the vicinity of the new SSDS.

1.2 References

- 1.1.1 *EnergySolutions, Supplemental Sub-Slab Gas Investigation Work Plan, CS-OP-PN-060, Rev. 0*
- 1.1.2 *EnergySolutions, Second Supplemental Sub-Slab Gas Investigation Work Plan, CS-OP-PN-072, Rev. 0*
- 1.1.3 *EnergySolutions, Vapor Mitigation Work Plan, Leica, Inc. (Site #915156), Cheektowaga, Erie County, New York, November 2010*
- 1.1.4 *31129-095, Sub-Slab Groundwater Sampling Results, Leica, Inc. Site; Erie County, Cheektowaga, New York, Inactive Hazardous Waste Disposal Site 915156, July 12, 2011*
- 1.1.5 *Conestoga-Rovers & Associates, Remedial Investigation Report, Leica, Inc., Cheektowaga, New York, Site Code 915156, October 1994*
- 1.1.6 *Conestoga-Rovers & Associates, Remedial Pre-Design Work Plan, Leica, Inc., Cheektowaga, New York, Site Code 915156, March 1996*
- 1.1.7 *NES, Inc., Feasibility Study Addendum Submittal, Leica Optical Site, Cheektowaga, New York, February 3, 1997*
- 1.1.8 *New York State Department of Environmental Conservation, Division of Environmental Remediation, Record of Decision, Leica, Incorporated Site, Town of Cheektowaga, Erie County, Registry Number 915156, March 1997*
- 1.1.9 *Beacon Environmental Services, Inc., Passive Soil-Gas Survey, Leica Site, Cheektowaga, New York, prepared for SCIENTECH, Inc., July 19, 2005, Beacon Report No. EM1789*
- 1.1.10 *EnergySolutions, Supplemental Area B Soil Remediation Using Hydrogen Release Compound (HRC), Remedial Action Work Plan for the Leica, Inc. Site, Cheektowaga, New York, May 2007*

- 1.1.11 New York State Department of Environmental Conservation, Approval of *HRC Injection Plan for Area B, Leica, Inc. (Site #915156), Cheektowaga, New York*, November 14, 2007
- 1.1.12 *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, October 2006
- 1.1.13 *EnergySolutions, Supplemental Area B Indoor Air and Sub-Slab Soil Gas Sampling Plan Leica, Inc. Site, Cheektowaga, New York*, September 2006
- 1.2.14 *EnergySolutions, Second Supplemental Sub-Slab Gas Sampling Investigation Results*, Letter dated February 12, 2013 from R. McPeak to J. Walia

1.3 Background

The building is owned and operated as a warehouse and distribution center by SamSon Distributing. Currently, there are no activities conducted within the building that use products containing VOCs; however, such products have been used in the past.

Leica, with NYSDEC approval, initiated a Remedial Investigation/Feasibility Study (RI/FS) in November 1993 to address the contamination at the Site. The RI was completed in October 1994 by Conestoga-Rovers & Associates (CRA) (Ref. No. 1.1.5). An FS was submitted by CRA in May 1995 with subsequent revisions in July 1995 and March 1996 (Ref. No. 1.1.6). The final FS addendum was submitted by NES, Inc. (now EnergySolutions) in February 1997 (Ref. No. 1.1.7). Upon issuance of a Record of Decision (ROD) in 1997 (Ref. No. 1.1.8), NYSDEC authorized Leica to begin activities necessary to design and implement the chosen remedial alternative at the Site. NES, Inc. (now EnergySolutions) was contracted in 1997 by Leica to design, install and operate a remediation system at the Site which was completed in 1999. A Site Plan showing the location of the remediation areas is included as Figure 2.

In order to determine the potential source of the elevated VOC concentrations in groundwater samples collected from Area B monitoring wells MW-16R and MW-16A, SCIENTECH (now EnergySolutions) completed a soil gas survey of the area surrounding these wells in June 2005. Area B includes a former dry well located immediately to the east of the main loading dock. The results of the study were provided to NYSDEC on July 19, 2005 (Ref. No. 1.1.9). Several COCs were detected in the soil gas survey including trichloroethene (TCE), 1,1,1 trichloroethane (TCA), cis 1,2 dichloroethene (DCE) and vinyl chloride. Sufficient samples were collected to the west, beneath the building, to locate what was believed to be the western edge of the hot spot which was within approximately 50 feet of the building's eastern side.

In consultation with NYSDEC, a work plan to inject Hydrogen Release Compound® (HRC) at select locations within the site was submitted by EnergySolutions on September 27, 2007 (Ref. No. 1.1.10), and subsequently

approved by NYSDEC on November 14, 2007 (Ref. No. 1.1.11). HRC injection was used to reduce chlorinated VOC contaminant concentrations in groundwater in addition to a reduction of the VOC concentrations in the soils beneath the main building. In May 2008, *EnergySolutions* completed the implementation of the HRC injection plan, including injections within Area B.

Subsequent quarterly groundwater sampling indicated that VOC concentrations in groundwater had been reduced in Area B (MW-16, MW-16A, MW-24 and MW-24A). However, the source of the continuing concentrations of TCE observed in the shallow unconsolidated aquifer at the southeast corner of the building in MW-6 was still unclear.

EnergySolutions proposed additional groundwater investigation within the portion of the building west and south of MW-24 and MW-24A to determine the extent of the elevated concentrations of VOCs in groundwater generated by the former drywell located outside the main facility loading dock (Ref. No. 1.1.1). All samples collected during the investigation (INT-1 through INT-5 and EXT-1) were collected as grab samples from temporary wells; permanent wells were not installed.

The proposed sampling locations were chosen based on the direction of groundwater flow as observed during times when groundwater was not influenced by pumping well MW-16A. Flow direction in the area is generally to the southwest beneath the building. Two groundwater samples were collected at distances of 50 feet and 150 feet down gradient (i.e., southwest) from the MW-24 well pair. An additional four (4) locations were proposed to the southeast of the MW-24 well pair to determine the source of the low concentrations of TCE observed in the shallow unconsolidated aquifer at MW-6. Two groundwater samples were collected in this southeasterly direction, the first approximately 50 feet and the second approximately 150 feet southeast from the MW-24 well pair, and along the eastern edge of the building. The third groundwater sample collected to the southeast was collected near the southeast corner of the building and the fourth was collected outside the southeast corner of the building between the building and the MW-6 well pair.

The groundwater grab samples were collected on June 8, 2011. The six (6) supplemental samples were collected from temporary wells cased with 1" PVC piping and screened at an approximate depth of five to fifteen feet below the building floor, or the ground surface in the case of sample EXT-1. The wells INT-1 through INT-5 were installed on June 7, 2011 and EXT-1 was installed on June 8, 2011. The wells were allowed to equilibrate and then one sample was collected from each of the six temporary wells on June 8, 2011.

Data collected from these supplemental groundwater grab samples indicated that elevated contaminant concentrations were present in the groundwater to the west and south of monitoring well pair MW-24 the most down gradient well pair located within the building footprint as of the date the samples were collected.

TCE concentrations ranged from a low of non-detectable in INT-1 to a high of 82,000 ug/l in INT-2. Cis 1,2 DCE concentrations ranged from a low of non-detectable in INT-1 to a high of 9,100 ug/l in INT-2. Vinyl Chloride concentrations ranged from a low of non-detectable in INT-1, INT-2 and EXT-1 to a high of 140 ug/l in EXT-1.

Based on the June 2011 results, it was apparent that the groundwater plume from the former drywell had migrated to the west as far as location INT-2 and to the south as far as location INT-4. Lower concentrations at location INT-3 suggest that location INT-2 represents the limits to the west of the major elevated VOC concentrations in the groundwater. The data also suggests that the releases from the former drywell have impacted the groundwater to the west approximately 300 feet based on the locations of these two samples (INT-2 and INT-3).

Concentrations of TCE in samples INT-1 and INT-4 collected more directly to the south of the former drywell suggest that the majority of the groundwater flow travels to the west and south. The TCE concentration in INT-1 was non-detect, and the TCE concentration in INT-4 was 830 ug/l. Concentrations in the southern most sampling points INT-5 and EXT-1 were non-quantifiable at 0.36 ug/l (J) and 0.35 ug/l (J) respectively suggesting that the limits of the southern impact of the drywell release is located somewhere between samples INT-4 and INT-5.

The high VOC concentrations detected in some of the groundwater grab samples collected during the June 8, 2011 sampling event, presented the potential for elevated Sub-Slab vapor concentrations to be present beneath the building floor slab. The *Supplemental Sub-Slab Gas Investigation Work Plan*, CS-OP-PN-060, Rev. 0, (Ref. No. 1.1.1), and the second *Supplemental Sub-Slab Gas Investigation Work Plan*, CS-OP-PN-072, Rev. 0, (Ref. No.1.1.2) were implemented in order to confirm whether the Sub-Slab vapors and indoor air contained elevated VOC concentrations, in the various areas of the building.

Samples were collected using Suma Canisters in accordance with these two work plans. Two types of Sub-Slab samples were collected including 30-minute screening samples and 8-hour DOH method compliant samples. Samples were collected from the Sub-Slab vapors under the building floor and also from the indoor air. Results from the September 2011 sampling effort are summarized in the 2011 Annual Report submitted to the NYSDEC in May 2012. Results from the September 2012 effort were submitted to the DEC in February 2013.

Samples collected during the implementation of these two work plans suggested that the extent of the elevated VOC concentrations require further delineation in the main office area on the western side of the building. Results showed that Sub-Slab VOC concentrations immediately to the east and south of the office area were high enough to warrant further investigation. TCE was detected at a concentration of 340 ug/m³ in sample 014, which was collected from the Sub-Slab vapors immediately to the east of the office area. TCE was also detected at a concentration of 1,000 ug/m³ in sample 016, which was collected from the Sub-Slab vapors immediately to the south of the office area.

The office areas were expected to present unique vapor flow conditions and a potential for vapors to accumulate that would differ from the potential in the main warehouse. These differing conditions include elements such as ceilings (not present in the main warehouse), shorter walls, smaller rooms, less makeup air flow, and the presence of an HVAC system. Additional sampling in the office areas was deemed appropriate based on these factors.

2.0 SCOPE OF WORK

2.1 Additional Groundwater Grab Samples

Four (4) temporary wells were installed within the facility in September 2012 including wells INT-10 thru INT-13. Wells INT-12 and INT-13 were installed in order to provide additional information regarding the northern extent of the groundwater plume generated by the former drywell located outside the main facility loading dock, as well as the continuity of that plume through the area beneath the former open air courtyard in the center of the facility. Temporary wells INT-10 and INT-11 were also installed in order to assess the concentrations of shallow groundwater beneath the former lens finishing and coating areas in the southern portion of the building. Groundwater data from this area will be used to assist in determining whether the Sub-Slab vapor concentrations in the area are more likely caused by volatilization from contaminants in the groundwater, or by surface spills inside the building which may have contaminated the material just beneath the floors.

All four temporary wells were installed using a 1" PVC piping and screened at an approximate depth of five to 15 feet below the building floor. Depth to groundwater is approximately seven feet to nine feet below the floor surface inside the building, or ground surface outside the building. Wells are screened from an approximate depth of five feet to 15 feet across a fine sand unit typically located just above the bedrock surface. Depth to bedrock in the proposed drilling area ranges from approximately 13 feet to 20 feet below ground surface. The well locations are depicted in Figure 3.

Wells INT-12 and INT-13 were sampled in late October 2012; however, wells INT-10 and INT-11 have been dry since installation. It is hopeful that groundwater will be available for sampling in the temporary wells INT-10 and INT-11 when this sampling plan is implemented. If these two wells are still dry at that time period, sampling will occur in the future when water is available.

- 2.1.1 If water is available, a sample will be collected from well INT-10, which is in the immediate vicinity of former Sub-Slab sample "ss-30min-028." The "ss-30min-028" sample contained elevated concentrations of TCE and CIS 1,2-DCE at 60,000 and 3,400 ug/m³, respectively. The first groundwater grab sample is located in this area to determine the relationship between the groundwater and the observed elevated soil vapors in the "ss-30min-028" sample collected in September 2011. If the

groundwater VOC concentrations in this area are not elevated, a surface release would likely be the source of the aforementioned elevated Sub-Slab vapors.

2.1.2 The second groundwater sample will be collected from well INT-11 located centrally between the "ss-30min-027" and "ss-30min-008" sample locations. Analysis of the "ss-30min-027" and "ss-30min-008" samples revealed elevated concentrations of TCE at 3,500 and 3,600 ug/m³ respectively. Well INT-11 is located in this area to determine if elevated VOC concentrations in the Sub-Slab vapors in the area are the result of groundwater contamination or more likely the result of surface spills that have not reached groundwater and exist just below the slab.

2.2 Sub-Slab and Indoor/Ambient Air samples

Sub-Slab and indoor air samples will be collected from locations in the office area on the far western side of the building. Indoor air samples will also be collected from the far northern and southern areas of the building. Proposed locations are included in Figure 3 and Figure 4.

Sampling efforts are currently planned for implementation during the winter heating season in order to provide data representative of the worst case scenarios realized while heating systems are in operation.

2.2.1 Office Area Sampling

EnergySolutions plans to collect Sub-Slab and/or indoor ambient air samples at selected locations within the main facility office areas located on the far western side of the building facing Eggert Road. See Figure 4 for sample locations. All samples will be collected in accordance with NYSDOH sampling protocols.

Office area samples will be collected at five locations throughout the office areas. These locations were selected for the collection of 8-hour indoor air and 8-hour Sub-Slab samples based on an analysis of the air handling systems servicing the office area, air flow patterns based on the office area floor plans and locations of air distribution and return vents within the area. Sampling locations were chosen based on the expected operation of the air handling systems, and biased toward those areas where the anticipated air flows would create the worst ambient air conditions (e.g. potentially higher negative pressure within the room). The indoor air sample results will be compared to the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs), as appropriate.

2.2.2 Northern and Southern Building Area Sampling

Past sampling efforts in the far northern and southern areas of the building have been focused on the concentrations of VOCs in the Sub-Slab vapors. Following review of this existing data, collection of additional indoor air data in these areas is appropriate. The samples will also be intended to assess indoor air concentrations above areas of elevated Sub-Slab concentrations in the vicinity of the former Lens cleaning and production areas in the southern portion of the

building. Two samples are proposed for the northern area of the warehouse and three samples are proposed for the southern area of the warehouse. Indoor air samples proposed for these areas are shown on Figure 3.

2.2.3 Sub-Slab Depressurization System (SSDS) Area Sampling

The investigation will also include the collection of four sets of indoor air and subslab samples from the entry way and loading dock areas of the warehouse. All samples will be collected in accordance with NYSDOH sampling protocols. These samples will be collected in order to assess the success of the new SSDS system which was installed in the loading dock area in 2012. Samples will be collected from permanent sampling ports which were installed in the facility floors during the SSDS installation. Sample ports are located adjacent to sample locations which have been sampled in the past, as well as locations radiating out from the draw points. This existing data available from these past sampling efforts will be used as a baseline for comparison purposes. New data collected during this investigation will be compared to this old data in order to determine whether the operation of the SSDS has reduce the VOC concentrations in the subslab or indoor air in the area. Sampling locations are shown on Figure 3 as "SSDS Indoor Air and Sub-Slab Samples".

2.3 Additional Data Gathering

Following review of the existing indoor air and Sub-Slab data, the collection of several alternate types of data will assist in further refining the conceptual model for the potential migration of VOCs within and beneath the building.

2.3.1 Further Assessment of air flow in additional isolated building areas/rooms.

To date, the collection of indoor air and Sub-Slab data has been primarily focused on the areas within and beneath the main warehouse. However, the building also contains some isolated, fully enclosed rooms and office spaces which merit further assessment. These areas include the UPS office in the northern end of the building and the small office area adjacent to the main loading dock in the northeastern corner of the building. Air flow and vapor concentrations may be different than the main warehouse in these enclosed areas.

During the implementation of this sampling plan, field members will observe these closed areas and determine what air handling systems are present, if any. Observations will be recorded in the field book. Additional samples may be collected from these areas if the potential for the concentration of vapors is present, based on these observations.

As an integral part of this assessment, manometers will be used to collect pressure readings inside and outside these closed-off areas. The pressure readings will be used to determine pressure differentials between the main warehouse air and the air in these smaller closed rooms and thereby assess the potential for air to enter the smaller spaces from the main warehouse area.

Pressure differential readings will be collected using a typical manometer capable of reading a pressure differential of approximately 0.001 inches of water column. The manometer will be stationed in the main warehouse, outside the selected room area. The manometer will be equipped with two silicone tubes, one connected to each measurement port. The end of one tube will be placed in the main warehouse area adjacent to the manometer, and the second tube will travel through the isolating wall and the end placed in the isolate room area. Pressure differentials between the main warehouse and the isolated room will be measured and recorded in the field book.

Pressure differential reading will also be recorded in the main office area on the western side of the building, the smaller office area in the northeastern corner of the facility and the UPS room located in the north central portion of the warehouse.

2.3.2 Concrete Floor Sampling

Elevated TCE concentrations are present in the indoor air at a number of locations within the main warehouse. Past manufacturing activities may have released cleaning solvents which could have soaked into the floors in some areas. The presence of VOCs in the concrete floors may be an explanation for the elevated indoor air readings. In order to confirm whether the floors absorbed solvents and are acting as a source of contamination, the sampling effort will include the collection of concrete floor samples.

Samples will be collected from five (5) areas throughout the main warehouse area. These sampling locations will include various areas throughout the building, some areas thought to be contaminated via intrusion from volatilization of groundwater contaminants, and other areas thought to be contaminated via surface spills onto the concrete floor from process operations. Areas that may be contaminated from the groundwater include those areas within the main groundwater plumes in the center of the building downgradient from the original drywell and the suspected releases in the former open courtyard area. Areas with possible contamination by process area spills which may have migrated beneath the floors include the former plating area in the vicinity of sample 8hr-037 in the north central building area, and the former lens coating and lens finishing areas in the southern portion of the building. Samples will also be biased toward locations with high indoor air concentrations.

One of the five (5) samples will be collected from the far western side of the building immediately to the north of the main office area which is expected to be unaffected by VOC releases from the groundwater or from spills in the various production areas. This sample will serve as a background sample which may be used for comparison purposes. Concrete floor sample locations are shown on Figure 3.

2.4 Sample Methodology

2.4.1 Groundwater Sampling

Groundwater sampling of temporary wells INT-10 and INT-11 will be conducted using the Low Flow/Low Stress method described in *EnergySolutions* "Low Flow/Low Stress Groundwater Purging" Standard Operating Procedure (SOP). A peristaltic pump will be used to draw groundwater from the wells. Dedicated tubing and latex gloves will be used for each well to ensure there is no cross contamination between samples.

The field sampling crew will observe and record required groundwater quality measurements until reading have stabilized as required by the sampling method. Once the water quality readings have stabilized, groundwater samples will be collected into laboratory supplied, cleaned glassware and will be submitted to Columbia Analytical Services under chain-of-custody and analyzed for VOCs via EPA Method 8260.

2.4.2 Concrete Sampling

Two different types of concrete sampling techniques will be used in order to ensure that VOCs present in the concrete will be detected, whether they are in the liquid or the vapor phase. In order to assess the presence of VOCs within the concrete, a sample will be collected using a hammer drill. Holes will be advanced into the floor at each of the five (5) sampling locations, and the cuttings from the drill hole will be collected as quickly as possible and placed in EPA Method 5035 VOC vials with method required preservatives. With concrete as the sampled media, low concentration range samples will be preserved with water in lieu of the standard sodium bisulfate preservative which is not appropriate with concrete. Material for these samples will be collected from the drill hole at a depth interval of approximately 0 to 2 inches below the floor surface. Collected material will be submitted to the laboratory for VOC analysis using EPA method 8260.

The second type of sample collected will be analyzed using head space methods. This approach will provide data that will serve as a simulation of any evaporation of VOCs from the floors which may be occurring. Samples will be collected from each of the five sampling locations using a small chisel hammer or hammer drill expected to produce large chips of concrete. Once prepared, the chips of concrete will be placed in sealed sampling jars and then transported to the laboratory. Once at the laboratory, the sample material will be taken immediately from the sample jars and placed in specially designed containers with sampling ports that permit direct injection of the head space gasses from the container into the analytical instrument. Once the chips are in the test containers, vapors within the sample chips will be permitted to evaporate from the concrete for a period of approximately one week. Once the vapors within the container have equilibrated, the head space within the jar will be analyzed using the EPA Method TO-15. Actual sample locations may be altered at the discretion of the field superintendant and/or SamSon.

2.4.3 Air Sampling

The 8-hour Sub-Slab vapor and ambient air samples will be collected in compliance with NYSDOH guidance (Ref. No. 1.1.12) and in accordance with this work plan. Sampling time periods will be as specified herein, and the tracer will be used on the sub-slab 8-hour samples only.

Sub-Slab vapor samples will be collected from the top two-inches of soil or aggregate located immediately below the slab. Sub-Slab vapor samples will not be collected in close proximity to cracks or voids in the slab in order to minimize potential ambient air infiltration. When possible, Sub-Slab and indoor air samples will be collected on different days in order to minimize the potential effect of sub-slab vapors on the indoor air sample as they may escape into the indoor atmosphere when the bore hole is advanced through the floor slab. Temporary Sub-Slab vapor probe installations will be constructed by:

1. Drilling a one-inch diameter borehole through the concrete slab using an electric rotary hammer drill,
2. Inserting Teflon™ tubing into the borehole to a maximum of two inches into the sub-slab soil or aggregate,
3. Backfilling the annular space with clean, coarse sand to within approximately one-inch of the top of the floor slab, and
4. Sealing the borehole with non-VOC emitting modeling clay to ensure that the Sub-Slab vapor sample is not diluted with air from within the building.

Samples collected from the area of the SSDS will utilize the permanent sampling ports installed as part of the SSDS work plan whenever possible. These permanent points will be sampled by removing the floor cap, installing a barbed fitting to the vapor point riser, and connecting the fitting to the sample train using Teflon tubing.

Six-liter, laboratory supplied and certified clean SUMMA canisters with 8-hour calibrated regulators will be used for the collection of the nine Sub-Slab samples (five in the office area and four in the SSDS area), and the 14 indoor air samples (five in the office area and five in the main warehouse area and four in the SSD area).

Each air sample collected in the SUMMA canisters will have its serial number and the corresponding regulator's serial number recorded in the field book or the provided sample log sheet from the laboratory in order to track which regulators were used with which canisters. Start and ending times as well as start and ending vacuum readings will also be recorded on these sheets and provided to the lab and to the Project Manager.

For the 8-hour period Sub-Slab samples, a length of Teflon™ tubing will be connected from the draw point in the floor to a three way "tee." One port will go to a valve that passes through the shroud and will be used to purge and ultimately connect to the photo-ionization detector (PID). The second port will connect with another piece of tubing to the 8-hour regulator that is pre-mounted to the

SUMMA canister under the shroud. The PID will be used to purge three volumes of the tubing and to monitor the Sub-Slab vapor. Following purging activities, helium will be added into the shroud and monitored with a helium detector so that a 30% concentration within the shroud is achieved and maintained. The helium will be monitored from a port in the shroud that is near the floor so that the majority of the shroud is contained at a minimum of 30% helium. The helium detector is also used to purge the sample train to detect any leaks in the sample train. If leaks are detected, the system will be re-evaluated and leaks fixed. Once the leaks have been fixed and the shroud filled and sample train checked for leaks again, the regulator will be opened to allow airflow from the draw point towards the SUMMA canister to collect the vapor sample. The pre-calibrated regulator on the SUMMA canister will restrict flow to allow sample collection over an 8-hour period for these samples that will be ultimately compared to the OSHA PELs. The vacuum in the SUMMA will be observed periodically during the 8-hour sampling event to ensure that a minimum required vacuum is maintained in the canisters.

For the 8-hour ambient air samples, the SUMMA canisters will be placed in close proximity to the corresponding Sub-Slab canister at a "working height," which is usually 3 to 4 feet above the slab where the Sub-Slab sample is being collected. As noted above, when possible, ambient air samples will be collected on a different day at the discretion of the site technician to minimize cross-contamination from the hole through the facility floor.

Final sample locations may be altered at the discretion of the field superintendent and/or Samson.

3.0 QUALITY ASSURANCE SAMPLING

3.1 Groundwater Quality Assurance Sampling

Groundwater Quality Assurance and Quality Control samples will be collected in accordance with *EnergySolutions Quality Assurance and Quality Control SOP*. Specifically, this sampling event will utilize the following three different types QA/QC samples:

1. Field or equipment blanks will be collected at a rate of one (1) for every 20 samples and at least one (1) per sampling event. The equipment blank is intended to assess the success of the decontamination process and is collected after sampling equipment has been cleaned. The field blank matrix will be de-ionized water or distilled water if available. The sample is drawn through the sampling equipment in the same manner as the non-QA/QC samples and submitted for the same analysis.
2. Trip blanks will be utilized at a rate of one (1) trip blank per cooler containing VOC samples. Trip blanks are used to assess the sample container handling process from the project site to the laboratory. These blanks are typically pre-filled by the laboratory and provided at the rate of one (1) trip blank per shipment.

3. The third type of QA/QC sample that will be collected is a duplicate. Duplicates will be collected at a rate of one (1) for every 20 samples collected and at least one (1) per sampling event. Duplicate samples are collected using the same methodology and source as the sample they are duplicating. This sample is collected to assess the ability to replicate results from two samples taken under the same conditions. It is anticipated that the aforementioned groundwater sample collection will be completed in one day following drilling activities; therefore for this sampling event, one (1) trip blank, one (1) equipment blank, and one (1) duplicate will be collected.

3.2 Air Quality Assurance Sampling

Air testing Quality Assurance and Quality Control samples will be collected in accordance with *EnergySolutions Quality Assurance and Quality Control SOP*. Specifically, this Sub-Slab and Indoor/Ambient Air samples and Correlation sampling event will utilize two different types QA/QC samples.

The first sample type is a field or equipment blank that will be collected at a rate of one (1) blank for every 20 samples collected and at least one (1) per sampling event. The equipment blank will be collected using a typical setup of canister and regulator located in an area where VOC contamination is not known to exist (typically outside). This methodology is used to assess the canister and regulators function as well as its cleanliness.

The second QA/QC sample type that will be collected is a duplicate, at a rate of one (1) for every 20 samples collected and at least one (1) per sampling event. The field duplicate will be collected at the same time and location as the actual sample it is duplicating, for example; if an 8-hour helium shrouded sample were to be duplicated for QA/QC purposes, the duplicated sample would need to be taken from the same sample point and under the same helium shroud.

4.0 DATA MANAGEMENT

4.1 Sample Control and Analysis

The sub-slab vapor and indoor air samples collected in the SUMMA canisters will be relinquished under COC to Columbia Analytical Services of Rochester, New York, a NELAP laboratory. All air and head space samples will be analyzed for VOCs using EPA Method TO-15; concrete samples will be analyzed for VOCs using EPA Method 8260.

4.2 Field Data

The field data collected will be managed using forms and/or bound field notebooks. All sample measurements taken during this project will be identified by matrix, type, and location to avoid ambiguity. Field records will include the following minimum information:

- A chronological listing of significant site events and sampling activities;
- Site name, field team members, signature, and date on each page;
- Site conditions, notes or sketches of sampling locations and sample descriptions;
- Sample times; and
- Record of all measurements.

4.3 Laboratory Data

The laboratory will be responsible for maintaining analytical logbooks and laboratory data as well as a sample inventory for submittal to *EnergySolutions*, if requested. Laboratory data will be transcribed onto a computer-based management system. This data will be summarized in a manner that provides efficiency in data reduction, tabulation, and evaluation. Un-consumed sample volume will be maintained by the laboratory for a period of at least 30 days after issuance of the final report to *EnergySolutions* under the conditions prescribed by the appropriate analytical methods for additional analysis, if necessary. Raw data files will be maintained by the laboratory and at a minimum will consist of the following files:

- Project-related plans;
- Project login data;
- Sample identification documents;
- Chain-of-Custody records;
- Project-related correspondence;
- Raw data sheets QC data;
- Copies of all final reports pertaining to the project; and
- Sample preparation records.

Raw laboratory data files will be retained by the laboratory for a minimum of five (5) years.

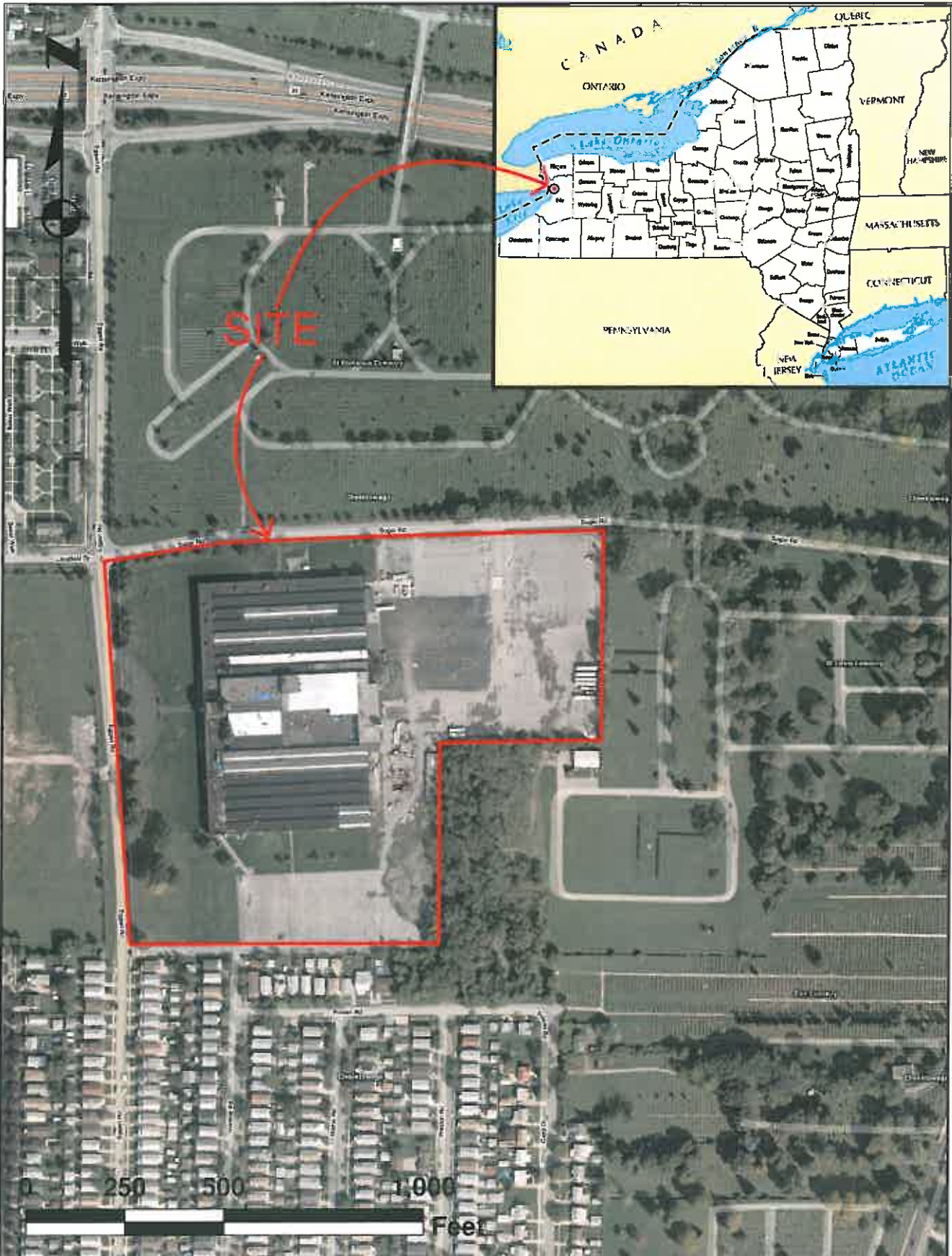
4.4 Data Review and Reporting


Sub-Slab vapor data and Groundwater grab data collected during this investigation will be reviewed and plotted on site maps to help delineate VOCs in the underlying groundwater and sub-slab vapor and indoor air. The data from the 8-hour indoor sampling locations will also be compared to the OSHA PELs. The data will be used to determine the extent of the contamination as well as the need for additional permanent groundwater monitoring wells within the building. The data may also be used to determine appropriate locations, if needed, for additional HRC injections to remediate identified groundwater contamination. The 8-hour

data collected from the areas surrounding the new SSDS will be used for the purpose of comparing the new data with the old data from the area and thereby determining if the SSDS has successfully reduced the VOC concentrations in the area. The data will be summarized and submitted in an annual project status report to NYSDEC.

FIGURES

- Figure 1 Site Location Map**
- Figure 2 Site Plan**
- Figure 3 Proposed Building-Wide Sampling and Testing Locations**
- Figure 4 Proposed Office Area Sampling Locations**




| | | | | |
|----------------------|---------|---|---|------------------------|
| DOCUMENT CONTROL NO. | PROJECT | LEICA MICROSYSTEMS INC. 203 EGGERT ROAD CHEEKTOWAGA, NY |  100 Mill Plain Road Danbury, CT 06811 203-797-8301 | PROJECT # 137015 |
| REVISION NO. | | | | DRAWING |
| | | | | SCALE: SEE SCALEBAR |
| | | | | DATE: 12/9/09 |
| | | | | BY: MT |
| | | | | CK: |
| | | | | FIGURE # 1 |



Legend

- Bedrock Wells
- Overburden Wells
- ▨ Trailer

| | | | | |
|----------------------|---------|---|--|------------------------|
| DOCUMENT CONTROL NO. | PROJECT | LEICA MICROSYSTEMS INC. 203 EGGERT ROAD CHEEKTOWAGA, NY |  100 Mill Plain Road Danbury, CT 06811 203-797-8301 | PROJECT # 137015 |
| | | | | FILENAME: |
| REVISION NO. | DRAWING | Site Plan | | SCALE: SEE SCALEBAR |
| | | | | DATE: 8/17/10 |
| | | | | BY: MT CK: RM |
| | | | | FIGURE # 2 |



APPENDIX C DATA TABLES

| | |
|---------|---|
| Table 1 | Summary of Concrete Chip Sample Data |
| Table 2 | Summary of Indoor Air Sample Results |
| Table 3 | Summary of Sub-slab Sample Results |
| Table 4 | Summary of Sub-slab Depressurization System Performance Monitoring Data |
| Table 5 | Data Summary and Correlation by Area |
| Table 6 | Summary of Groundwater Data |

Prepared by:REM
 Date: 6/26/13
 Checked by: MT
 Date: 8/23/13

Table 1
Summary of Concrete Chip Sample Data

| Sample location | CC-01 | | CC-02 | | CC-03 | | CC-04 | | CC-05 | |
|---|--------------|---|--------------|---|--------------|---|--------------|---|--------------|---|
| Lab ID: | R1302733-001 | | R1302733-002 | | R1302733-003 | | R1302733-004 | | R1302733-005 | |
| Sample Collection Date: | 4/19/2013 | | 4/19/2013 | | 4/19/2013 | | 4/19/2013 | | 4/19/2013 | |
| Analytical Dilution Factor: | | | | | | | | | | |
| Volatile Organic Compounds (ug/m3) via EPA TO-15 | | | | | | | | | | |
| PROPENE | 5 | U | 56 | U | 9.9 | | 15 | | 7.1 | |
| ETHANOL | 70 | | 560 | U | 50 | U | 50 | U | 50 | U |
| ACETONITRILE | 36 | | 56 | U | 8.2 | | 15 | | 5.4 | |
| ACETONE | 220 | | 560 | U | 530 | | 3200 | | 1000 | |
| 2-PROPANOL | 50 | U | 560 | U | 50 | U | 64 | | 50 | U |
| METHYLENECHLORIDE | 5 | U | 56 | U | 5 | U | 5.7 | | 5 | U |
| CARBON DISULFIDE | 50 | U | 560 | U | 50 | U | 58 | | 50 | U |
| 2-BUTANONE (MEK) | 50 | U | 560 | U | 91 | | 840 | | 56 | |
| cis 1,2 DICHLOROETHENE | 5 | U | 61 | | 5 | U | 5 | U | 5 | U |
| n-HEXANE | 5.5 | | 56 | U | 130 | | 26 | | 58 | |
| BENZENE | 5 | U | 56 | U | 18 | | 7.2 | | 11 | |
| CYCLOHEXANE | 10 | U | 110 | U | 480 | | 14 | | 150 | |
| TRICHLOROETHENE (TCE) | 6.4 | | 110 | | 8.6 | | 40 | | 5 | U |
| 1,4 DIOXANE | 5.4 | | 56 | U | 5 | U | 5 | U | 5 | U |
| n-HEPTANE | 12 | | 110 | | 250 | | 40 | | 83 | |
| 4-METHYL-2-PENTANONE | 5 | U | 56 | U | 8.5 | | 78 | | 5 | U |
| TOLUENE | 27 | | 74 | | 100 | | 67 | | 38 | |
| 2-HEXANONE | 21 | | 56 | U | 5 | U | 120 | | 5 | U |
| n-OCTANE | 23 | | 950 | | 250 | | 30 | | 82 | |
| ETHYLBENZENE | 5 | U | 56 | U | 27 | | 10 | | 15 | |
| m,p-XYLENES | 10 | U | 210 | | 130 | | 27 | | 62 | |
| STYRENE | 5 | U | 56 | U | 5 | U | 6.8 | | 5 | U |
| o-XYLENE | 5 | U | 110 | | 40 | | 12 | | 20 | |
| n-NONANE | 18 | | 870 | | 180 | | 220 | | 69 | |
| CUMENE | 5 | U | 56 | U | 6.8 | | 5 | U | 5 | U |
| ALPHA-PINENE | 5 | U | 56 | U | 5 | U | 120 | | 5 | U |
| n-PROPYLBENZENE | 5 | U | 56 | U | 9 | | 8.1 | | 5.2 | |
| 4-ETHYLTOLUENE | 5 | U | 56 | U | 5.5 | | 11 | | 5 | U |
| 1,3,5 TRIMETHYLBENZENE | 5 | U | 77 | | 18 | | 44 | | 10 | |
| 1,2,4 TRIMETHYLBENZENE | 5 | U | 81 | | 33 | | 77 | | 20 | |
| d-LIMONENE | 5 | U | 56 | U | 5 | U | 6.6 | | 5 | U |

NOTES:

B = Analyte detected in method blank
 D = Sample reanalyzed and quantified at higher dilution
 E = Exceeds calibration range
 J = Estimated concentration
 U = Analyte was not detected above Lab MRL

Prepared by: DRS
 Date: 6/3/13
 Checked by: MT
 Date: 8/23/13

Table 2
Summary of Indoor Air Sample Results
Leica Microsystems, Eggert Road
Cheektowaga, NY

| Sample location Area Lab ID: Sample Collection Date: Analytical Dilution Factor: | OSHA PELs ug/m ³ | CAS # | AA-8HR-049 | AA-8HR-050 | AA-8HR-048 | AA-8HR-047 | AA-8HR-046 | IA-8hr-056 | IA-1 | IA-2 | IA-6 | IA-8hr-051 | IA-8hr-052 | IA-8hr-053 | IA-8hr-054 |
|--|--------------------------------|-------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | Main Warehouse Area | | | | | | SSDS Area | | | Main Office Area | | | |
| | | | 1301687-001 4/17/2013 | 1301687-002 4/17/2013 | 1301687-003 4/17/2013 | 1301687-004 4/17/2013 | 1301687-005 4/17/2013 | P1301748-008 4/20/2013 | 1301687-007 4/18/2013 | 1301687-009 4/18/2013 | 1301687-011 4/18/2013 | 1301748-005 4/19/2013 | 1301748-006 4/19/2013 | 1301748-010 4/20/2013 | 1301748-012 4/20/2013 |
| Volatile Organic Compounds (ug/m³) | | | | | | | | | | | | | | | |
| Propene | NE | 115-07-1 | 27 | 16 | 33 | 38 | 31 | ND | 6.0 | 44 | 37 | 8.9 | 26 | ND | ND |
| Dichlorodifluoromethane (CFC 12) | 4,950,000 | 75-71-8 | 2.1 | 2.2 | 2.0 | 2.2 | 2.2 | 2.7 | 2.1 | 2.2 | 2.2 | 2.7 | 2.4 | 2.3 | 2.1 |
| Chloromethane | 206,503 | 74-87-3 | ND | 0.67 | ND | ND | ND | 0.88 | ND | ND | ND | 0.83 | ND | ND | ND |
| 1,3-Butadiene | | 106-99-0 | 1.0 | ND | 1.1 | 1.1 | 1.3 | ND | ND | 1.2 | 1.4 | ND | 1.0 | ND | ND |
| Ethanol | NE | 64-17-5 | 8.5 | 6.6 | ND | ND | 28 | ND | ND | 32 | 22 | 99 | 22 | 8.7 | 9.4 |
| Acetonitrile | | 75-05-8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.98 | ND | ND | ND |
| Acetone | 2,400,000 | 67-64-1 | 15 | ND | 12 | 13 | ND | 14 | 9.3 | ND | ND | 4.7 | 25 | 7.9 | 10 |
| Trichlorofluoromethane | 5,600,000 | 75-69-4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 | 1.1 | 1.3 | 1.3 | 1.4 | 1.2 | 1.1 | 1.1 | 1.2 |
| 2-Propanol | | 67-63-0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 88 | ND | ND | ND |
| Methylene Chloride | 86,851 | 75-09-2 | 0.85 | ND | 1.7 | 2.6 | 1.7 | 5.0 | ND | 2.7 | 2.8 | 1.6 | 4.6 | 1.3 | 1.4 |
| 2-Butanone | | 78-93-3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 15 | ND | ND | ND |
| Ethyl Acetate | 49,000 ¹ | 141-78-6 | ND | ND | 2.2 | 2.8 | 5.8 | ND | ND | 4.2 | 5.1 | 30 | 2.8 | ND | ND |
| n-Hexane | 1,800,000 | 110-54-3 | ND | 1.2 | ND | ND | ND | ND | ND | 1.4 | 1.5 | 1.2 | 2.3 | ND | ND |
| Benzene | 3,195 | 71-43-2 | 0.89 | 0.93 | 0.99 | 1.1 | 0.99 | ND | ND | 1.3 | 1.3 | ND | 1.2 | ND | ND |
| Trichloroethene | 537,382 | 79-01-6 | 1.7 | 0.76 | 3.4 | 4.3 | 3.1 | 33 | 1.2 | 7.1 | 8.0 | 1.1 | 3.1 | 1.8 | 2.0 |
| Methyl Methacrylate | 410,000 | 80-62-6 | ND | ND | 1.9 | 2.5 | ND | 3.4 | ND | 2.3 | 2.4 | ND | 5.5 | ND | ND |
| n-Heptane | | 142-82-5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.2 | 1.5 | ND | ND |
| 4-Methyl-2-pentanone | | 108-10-1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.1 | ND | ND | ND |
| Toluene | 75,370 ¹ | 108-88-3 | 5.8 | 6.4 | 9.2 | 13 | 11 | 6.5 | 1.3 | 6.8 | 7.2 | 3.9 | 8.9 | 2.1 | 4.3 |
| 2-Hexanone | | 591-78-6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 | ND | ND | ND |
| n-Butyl Acetate | 710,000 | 123-86-4 | 0.85 | ND | 1.2 | 1.5 | 1.0 | ND | ND | 1.3 | 1.2 | 0.78 | 3.5 | ND | ND |
| n-Octane | | 111-65-9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.8 | ND | ND | ND |
| Ethylbenzene | 435,000 | 100-41-4 | ND | 0.7 | 2.2 | 3.1 | 2.7 | 1.8 | ND | 2.0 | 2.1 | 1.1 | 3.0 | ND | 1.4 |
| m,p-Xylenes | 435,000 | 179601-23-1 | 1.8 | 2.2 | 5.2 | 6.8 | 6.3 | 4.6 | ND | 4.4 | 4.7 | 2.2 | 6.4 | ND | 3.1 |
| Styrene | 425,971 | 100-42-5 | 1.5 | ND | 5.3 | 7.7 | 6.4 | 5.4 | ND | 3.6 | 4.1 | 2.5 | 10 | 1.5 | 3.4 |
| o-Xylene | 435,000 | 95-47-6 | ND | 0.74 | 1.7 | 2.2 | 2.0 | 1.6 | ND | 1.5 | 1.7 | 0.84 | 2.3 | ND | 1.0 |
| n-Nonane | NE | 111-84-2 | ND | ND | ND | ND | ND | ND | ND | ND | 0.83 | ND | ND | ND | ND |
| alpha-Pinene | NE | 80-56-8 | 4.2 | 1.6 | 3 | 3.7 | 2.9 | 4.2 | 0.94 | 8.2 | 9.5 | 2.7 | 8.2 | 0.94 | 1.3 |
| 1,2,4-Trimethylbenzene | NE | 95-63-6 | ND | 0.78 | 0.75 | 1.1 | ND | ND | ND | 1.0 | 1.1 | ND | 1.1 | ND | ND |
| d-Limonene | NE | 5989-27-5 | 1.1 | 1.2 | ND | 0.86 | ND | ND | 1.8 | 0.96 | 1.2 | ND | 1.4 | 3.2 | 1.5 |
| TOTAL VOCs | | | 73.49 | 43.18 | 88.04 | 108.76 | 107.59 | 85.68 | 23.74 | 129.46 | 118.63 | 318.93 | 143.4 | 30.84 | 42.1 |

NOTES:
 No PEL exceedances
 Only chemicals detected are included
 1.) ACGIH TLV
 B = Analyte detected in method blank
 D = Sample reanalyzed and quantified at higher dilution
 E = Exceeds calibration range
 J = Estimated concentration
 ND = Analyte was not detected above Lab MRL

Prepared by: DRS
 Date: 6/3/13
 Checked by: MT
 Date: 8/23/13

Table 2
Summary of Indoor Air Sample Results
 Leica Microsystems, Eggert Road
 Cheektowaga, NY

| Sample location | IA-8hr-055 | |
|--|---------------------|-------------|
| Area | OSHA PELs | |
| Lab ID: | ug/m ³ | |
| Sample Collection Date: | 1301748-014 | |
| Analytical Dilution Factor: | 4/20/2013 | |
| Volatile Organic Compounds (ug/m³) | | |
| Propene | NE | ND |
| Dichlorodifluoromethane (CFC 12) | 4,950,000 | 2.3 |
| Chloromethane | 206,503 | ND |
| 1,3-Butadiene | | ND |
| Ethanol | NE | 8 |
| Acetonitrile | | ND |
| Acetone | 2,400,000 | 8.4 |
| Trichlorofluoromethane | 5,600,000 | 1.1 |
| 2-Propanol | | ND |
| Methylene Chloride | 86,851 | 1.2 |
| 2-Butanone | | ND |
| Ethyl Acetate | 49,000 ¹ | ND |
| n-Hexane | 1,800,000 | ND |
| Benzene | 3,195 | ND |
| Trichloroethene | 537,382 | 1.6 |
| Methyl Methacrylate | 410,000 | ND |
| n-Heptane | | ND |
| 4-Methyl-2-pentanone | | ND |
| Toluene | 75,370 ¹ | 2.0 |
| 2-Hexanone | | ND |
| n-Butyl Acetate | 710,000 | ND |
| n-Octane | | ND |
| Ethylbenzene | 435,000 | ND |
| m,p-Xylenes | 435,000 | ND |
| Styrene | 425,971 | 1.2 |
| o-Xylene | 435,000 | ND |
| n-Nonane | NE | ND |
| alpha-Pinene | NE | ND |
| 1,2,4-Trimethylbenzene | NE | ND |
| d-Limonene | NE | 1.4 |
| TOTAL VOCs | | 27.2 |

NOTES:

No PEL exceedances

Only chemicals detected are included

1.) ACGIH TLV

B = Analyte detected in method blank

D = Sample reanalyzed and quantified at higher dilution

E = Exceeds calibration range

J = Estimated concentration

ND = Analyte was not detected above Lab MRL

Prepared by: REM
 Date: 6/26/13
 Checked by: MT
 Date: 8/23/13

Table 3
 Summary of Sub Slab Sample Results

| Sample location | SB-1 | SB-2 | SB-6 | SS-8hr-051 | SS-8hr-052 | SS-8hr-053 | SS-8hr-054 | SS-8hr-055 |
|----------------------------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|
| Lab ID: | 1301687-006 | 1301687-008 | 1301687-010 | P1301748-003 | P1301748-004 | P1301748-009 | P1301748-011 | P1301748-013 |
| General Area | SSDS Area | | | Main Office Area | | | | |
| Sample Collection Date: | 4/18/2013 | 4/18/2013 | 4/18/2013 | 4/19/2013 | 4/19/2013 | 4/20/2013 | 4/20/2013 | 4/20/2013 |
| Analytical Dilution Factor: | | | | | | | | |
| Propene | ND | ND | 4.5 | 8.2 | 8.8 | 29 | 5.5 | 13 |
| Dichlorodifluoromethane (CFC 12) | ND | ND | 2.2 | 1.7 | 1.8 | ND | 1.8 | ND |
| Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Butadiene | ND | ND | ND | 2.7 | 2.4 | ND | 0.93 | ND |
| Chloroethane | ND | ND | 1.4 | ND | ND | ND | ND | ND |
| Ethanol | ND | 130 | ND | 45 | 16 | ND | 14 | 81 |
| Acetonitrile | ND | ND | ND | 6.7 | 13 | ND | 5.7 | ND |
| Acrolein | ND | ND | ND | ND | ND | ND | ND | 160 |
| Acetone | ND | 160 | 1.1 | 360 | 230 | 600 | 81 | 360 |
| Trichlorofluoromethane | ND | ND | 1.5 | 1.0 | ND | ND | 1.1 | ND |
| 2-Propanol | ND | ND | ND | 21 | 16 | ND | ND | ND |
| 1,1-Dichloroethene | 73 | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | ND | ND | ND | ND | ND | ND | 1.0 | ND |
| Carbon Disulfide | ND | ND | ND | 51 | 18 | ND | 22 | ND |
| Trichlorotrifluoroethane | ND | ND | 2.1 | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | 51 | 36 | ND | 15 | ND |
| cis-1,2-Dichloroethene | 25 | ND | ND | ND | ND | ND | ND | 8.4 |
| n-Hexane | ND | ND | ND | 230 | 130 | 2200 | 110 | 1500 |
| Chloroform | ND | ND | 14 | ND | ND | ND | ND | ND |
| Tetrahydrofuran (THF) | ND | ND | ND | ND | 1.6 | ND | ND | ND |
| 1,1,1-Trichloroethane | 430 | ND | 34 | 6.3 | ND | ND | 2.0 | 55 |
| Benzene | ND | ND | ND | 36 | 35 | 210 | 22 | 120 |
| Carbon Tetrachloride | ND | ND | ND | 1.4 | ND | ND | ND | ND |
| Cyclohexane | ND | ND | 1.6 | 86 | 52 | 2100 | 42 | 1200 |
| Trichloroethene | 2700 | ND | 200 | 150 | 22 | 950 | 28 | 120 |
| 1,4-Dioxane | 150 | ND | ND | ND | ND | ND | 6.0 | ND |
| n-Heptane | ND | ND | ND | 210 | 130 | 2300 | 100 | 1500 |
| 4-Methyl-2-pentanone | ND | ND | ND | 4.8 | 3.8 | ND | 1.3 | 45 |
| Toluene | ND | 41 | 2.0 | 160 | 130 | 540 | 230 | 390 |
| n-Octane | ND | ND | ND | 130 | 88 | 1600 | 84 | 1600 |
| Tetrachloroethene | ND | ND | 1.9 | 2.8 | 3.4 | ND | 2.9 | ND |
| Ethylbenzene | ND | 17 | ND | 7.6 | 39 | 100 | 7.3 | 31 |
| m,p-Xylenes | ND | 26 | ND | 33 | 74 | 320 | 33 | 130 |
| Styrene | ND | ND | ND | 0.95 | 2.2 | ND | 1.5 | ND |
| o-Xylene | ND | ND | ND | 12 | 26 | 94 | 12 | 37 |
| n-Nonane | ND | ND | ND | 70 | 37 | 560 | 66 | 570 |
| Cumene | ND | ND | ND | 1.5 | 290 | 520 | 2.0 | ND |
| alpha-Pinene | ND | ND | 18 | 6.3 | ND | ND | 2.2 | 18 |
| n-Propylbenzene | ND | ND | ND | 1.3 | 3.9 | ND | 1.8 | ND |
| 4-Ethyltoluene | ND | ND | ND | 1.2 | 2.7 | ND | 1.9 | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | 3.5 | 3.6 | ND | 5.9 | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | 5.0 | 9.1 | ND | 11 | ND |
| d-Limonene | ND | 150 | ND | 1.8 | 160 | 160 | 5.0 | ND |
| Naphthalene | ND | ND | ND | ND | 2.2 | ND | ND | ND |
| TOTAL VOCs | 3378 | 524 | 294.2 | 1709.75 | 1587.5 | 12283 | 925.83 | 7938.4 |

Notes
 Only chemicals detected are included
 B = Analyte detected in method blank
 D = Sample reanalyzed and quantified at higher dilution
 E = Exceeds calibration range
 J = Estimated concentration
 ND = Analyte was not detected above Lab MRL

Table 4
Summary of SubSlab Depressurization System Performance Monitoring Data

| Sample Location | Chemicals | Sub Slab ug/m ³ | | Indoor air ug/m ³ | |
|-------------------------------|------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | | Pre SSDS Baseline (March 10) | Post SSDS Round 1 (April 13) | Pre SSDS Baseline (March 10) | Post SSDS Round 1 (April 13) |
| SB-1 (SS compared to IA) | 1,1 DCA | 25000 | 73 | 2.1 | ND |
| | 1,2 DCE | 6800 | 25 | 0.69 | ND |
| | TCA | 91000 | 430 | 8.2 | ND |
| | Carbon Tet | ND | ND | 0.57 | ND |
| | TCE | 190000 | 2700 | 17 | 1.3 |
| | PCE | 740 | ND | 0.18 | ND |
| SB-2 (SS compared to IA) | 1,1 DCA | 1000 | ND | 0.074 | ND |
| | 1,2 DCE | 130 | ND | 0.19 | ND |
| | TCA | 1900 | ND | 0.22 | ND |
| | Carbon Tet | ND | ND | 0.57 | ND |
| | TCE | 12000 | ND | 4.4 | 7.1 |
| | PCE | 190 | ND | 0.27 | ND |
| SB-3 (SS compared to IA) | VC | ND | 4.4 | ND | ND |
| | 1,1 DCA | 14 | 4.7 | 0.17 | ND |
| | 1,2 DCE | 44 | 280 | 0.35 | ND |
| | TCA | 42 | 7.6 | 0.57 | ND |
| | Carbon Tet | ND | ND | 0.62 | ND |
| | TCE | 260 | 750 | 9 | 3.6 |
| PCE | 36 | 7.7 | 0.14 | ND | |
| SB-6 compared to (8hr-040) | VC | ND | ND | ND | ND |
| | 1,1 DCA | ND | ND | ND | ND |
| | 1,2 DCE | ND | ND | ND | ND |
| | TCA | ND | 34 | ND | ND |
| | Carbon Tet | ND | ND | 0.55 | ND |
| | TCE | 380 | 200 | 1.3 | 8 |
| PCE | 37 | 1.9 | ND | ND | |

 Drop in concentration
 Increase in concentration

Table 5
Data Summary and Correlation by Area

| Former Area | Chemical | Groundwater (ug/l) | SubSlab (ug/m ³) | Concrete Floor (ug/m ³) | Indoor air (ug/m ³) | |
|-----------------------|------------|--------------------------|------------------------------|--|---------------------------------|--------------------------------|
| Courtyard | | INT-2 (June-11) | 8hr-002 (Sept 11) | CC-03 (Apr-13) | 8hr-002 (Sept 11) | NA (Only one sample available) |
| | TCE | 82,000 | 420,000 | 8.60 | 19.00 | |
| | DCE | 9,100 | 11,000 | ND | 0.45 | |
| | 1,1 DCA | ND | ND | ND | 0.11 | |
| | VC | ND | ND | ND | ND | |
| | TCA | ND | ND | ND | 0.38 | |
| | PCE | 160J | ND | ND | 0.43 | |
| | Carbon Tet | ND | ND | ND | 0.58 | |
| Lens coating | | INT-10 (April-13) | 8hr-038 (Sept 12) | CC-02 (Apr-13) | 8hr-047 (Apr-13) | NA (Only one sample available) |
| | TCE | 7,500 | 51,000 | 110.00 | 4.30 | |
| | DCE | 490 | 2,900 | 61.00 | ND | |
| Lens Finishing | | INT-11 (April-13) | 8hr-039 (Sept 12) | CC-01 (Apr-13) | 8hr-046 (Apr 13) | NA (Only one sample available) |
| | TCE | 66 | 3,800 | 6.40 | 3.10 | |
| | DCE | 1,100 | 240 | ND | ND | |
| | VC | 44 | ND | ND | ND | |
| | TCA | ND | 150 | ND | ND | |
| | PCE | ND | 22 | ND | ND | |
| South of MW24 | | INT-12 (April-13) | 8hr-045 (Sept 12) | CC-04 (Apr-13) | 8hr-056 (Apr 13) | NA (Only one sample available) |
| | TCE | 2,400 | 36,000 | 40.00 | 33.00 | 21 |
| | 1,2 DCE | 500 | ND | ND | ND | ND |
| | 1,1 DCA | 160 | ND | ND | ND | ND |
| | PCE | ND | ND | ND | ND | 0.16 |
| | Carbon Tet | ND | ND | ND | ND | 0.57 |
| Plating Room | | INT-13 (April-13) | 8hr-045 (Sept 12) | CC-04 (Apr-13) | 8hr-056 (Apr 13) | 8hr-045 (Sept 12) |
| | TCE | 160 | 36,000 | 40.00 | 33.00 | 21 |
| | 1,2 DCE | 38 | ND | ND | ND | ND |
| | 1,1 DCA | 65 | ND | ND | ND | ND |
| | 1,1 DCE | 8.6 | ND | ND | ND | ND |
| | 1,1,1 TCA | 23 | ND | ND | ND | ND |
| | PCE | ND | ND | ND | ND | 0.16 |
| | Carbon Tet | ND | ND | ND | ND | 0.57 |

Table 6
 Summary of Groundwater Data
 April, 2013

| ANALYTE | CAS | RAOs GW | INT-10 | | INT-11 | | INT-12 | | INT-13 | | | | | |
|--|---------------|------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|----------|-------------|---|------------|---|
| | | | 4/16/2013 | 4/16/2013 | 4/16/2013 | 4/16/2013 | 4/16/2013 | 4/16/2013 | | | | | | |
| Sample Collection Date: | | | 25.00 | 50.00 | 5.00 | 10.00 | 20.00 | 1.00 | | | | | | |
| Dilution: | | | | | | | | | | | | | | |
| Volatile Organic Compounds (ug/l) | | | | | | | | | | | | | | |
| acetone | 67641 | - | 250 | U | 500 | U | 50 | U | 100 | U | 200 | U | 10 | U |
| benzene | 71432 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| bromodichloromethane | 75274 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| bromoform | 75252 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| bromomethane | 74839 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| 2-butanone (MEK) | 78933 | - | 250 | U | 500 | U | 50 | U | 100 | U | 200 | U | 10 | U |
| carbon disulfide | 75150 | - | 250 | U | 500 | U | 50 | U | 100 | U | 200 | U | 10 | U |
| carbon tetrachloride | 56235 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| chlorobenzene | 108907 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| chloroethane | 75003 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| chloroform | 67663 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| chloromethane | 74873 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| dibromochloromethane | 124481 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| 1,1-dichloroethane | 75343 | - | 130 | U | 250 | U | 25 | U | 50 | U | 160 | | 65 | |
| 1,2-dichloroethane | 107062 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| 1,1-dichloroethene | 75354 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 8.6 | |
| cis-1,2-dichloroethene | 156592 | 5 | 340 | | 490 | D | 1300 | E | 1100 | D | 500 | | 38 | |
| trans-1,2-dichloroethene | 156605 | 5 | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| 1,2-dichloropropane | 78875 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| cis-1,3-dichloropropene | 542756 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| trans-1,3-dichloropropene | 542756 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| ethylbenzene | 100414 | 5 | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| 2-hexanone | 591786 | - | 250 | U | 500 | U | 50 | U | 100 | U | 200 | U | 10 | U |
| methylene chloride | 75092 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| 4-methyl-2-pentanone (MIBK) | 108101 | - | 250 | U | 500 | U | 50 | U | 100 | U | 200 | U | 10 | U |
| styrene | 100425 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| 1,1,2,2-tetrachloroethane | 79345 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| tetrachloroethene | 127184 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| toluene | 108883 | 5 | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| 1,1,1-trichloroethane | 71556 | 5 | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 23 | |
| 1,1,2-trichloroethane | 79005 | - | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| trichloroethene | 79016 | 5 | 5100 | E | 7500 | D | 74 | | 66 | D | 2400 | | 160 | |
| vinyl chloride | 75014 | 5 | 130 | U | 250 | U | 44 | | 50 | U | 100 | U | 5.0 | U |
| o-xylene | 95476 | 5 | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |
| m+p xylenes | 108383/106423 | 5 | 130 | U | 250 | U | 25 | U | 50 | U | 100 | U | 5.0 | U |

Notes

- 1.) Bold data indicates RAO exceedance
- 2.) B = Analyte detected in method blank
- 3.) D = Sample reanalyzed and quantified at higher dilution
- 4.) E = Exceeds calibration range
- 5.) J = Estimated concentration
- 6.) U = Analyte was not detected above Lab MRL



APPENDIX D LABORATORY DATA

LABORATORY REPORT

June 18, 2013

Robert McPeak
Energy Solutions, Inc.
100 Mill Plain Rd 2nd Floor Mailbox 106
Danbury, CT 06811

RE: Leica 137015

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on April 19, 2013. For your reference, these analyses have been assigned our service request number R1302733.

The case narrative has been revised to correct the sample preparation conditions.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental



By Kate Aguilera at 4:55 pm, Jun 18, 2013

Kate Aguilera
Project Manager

Client: Energy Solutions, Inc.
Project: Leica 137015

Service Request No: R1302733

CASE NARRATIVE

The samples were received intact under chain of custody on April 19, 2013 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The entire portion of crush concrete was transferred into separate glass purge vessels and allowed to equilibrate at room temperature, 24-25°C, for 1 week. A clean vessel was also set up and run as a Chamber Blank-P130509-CB, under the same set of conditions as the samples.

The headspace of each vessel was flushed with ultra-high purity zero grade air into pre conditioned 1 liter Tedlar bags and analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air pre-concentrator.

The reporting limit is elevated for sample CC-02. The chromatogram indicated the presence of non-target background components. The sample was diluted in order to prevent damage to the instrument and to achieve optimal resolution of the target analyte.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of Columbia Analytical Services, Inc. dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Columbia Analytical Services, Inc. dba ALS Environmental – Simi Valley
 Certifications, Accreditations, and Registrations

| Agency | Web Site | Number |
|------------------------|---|----------------------------|
| AIHA | http://www.aihaaccreditedlabs.org | 101661 |
| Arizona DHS | http://www.azdhs.gov/lab/license/env.htm | AZ0694 |
| DoD ELAP | http://www.pjlabs.com/search-accredited-labs | L11-203 |
| Florida DOH (NELAP) | http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm | E871020 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm | 2012039 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 494864 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/oqa/ | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | CA200007 |
| Pennsylvania DEP | http://www.depweb.state.pa.us/labs | 68-03307 (Registration) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html | T104704413-12-3 |
| Utah DOH (NELAP) | http://www.health.utah.gov/lab/labimp/certification/index.html | CA01527201 2-2 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |

Analyses were performed according to our laboratory’s NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.caslab.com, www.alsglobal.com, or at the accreditation body’s website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

DETAIL SUMMARY REPORT

Client: Energy Solutions, Inc.
 Project ID: Leica 137015

Service Request: R1302733

Date Received: 4/19/2013
 Time Received: 13:35

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Service Request: R1302733 | |
|------------------|--------------|--------|----------------|----------------|---------------------------|----------------------|
| | | | | | 8260C - VOC FP | TO-15 Modified - VOC |
| CC-01 | R1302733-001 | Soil | 4/19/2013 | 10:00 | X | X |
| CC-02 | R1302733-002 | Soil | 4/19/2013 | 10:20 | X | X |
| CC-03 | R1302733-003 | Soil | 4/19/2013 | 09:25 | X | X |
| CC-04 | R1302733-004 | Soil | 4/19/2013 | 09:00 | X | X |
| CC-05 | R1302733-005 | Soil | 4/19/2013 | 10:50 | X | X |

Intra-Network Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Karen Bunker

Project Name: Leica 137015
 Project Number:
 Project Manager: Robert McPeak
 Company: Energy Solutions, Inc.

| Lab Code | Client Sample ID | # of Cont. | Matrix | Sample | | | Send To | VOC TO-15 Modified |
|--------------|------------------|------------|--------|---------|------|---------------|------------|-----------------------|
| | | | | Date | Time | Date Received | | |
| R1302733-001 | CC-01 | 1 | Soil | 4/19/13 | 1000 | 4/19/13 | SIMIVALLEY | II |
| R1302733-002 | CC-02 | ↓ | Soil | 4/19/13 | 1020 | 4/19/13 | SIMIVALLEY | II |
| R1302733-003 | CC-03 | | Soil | 4/19/13 | 0925 | 4/19/13 | SIMIVALLEY | II |
| R1302733-004 | CC-04 | | Soil | 4/19/13 | 0900 | 4/19/13 | SIMIVALLEY | II |
| R1302733-005 | CC-05 | | Soil | 4/19/13 | 1050 | 4/19/13 | SIMIVALLEY | II |

Kate Aguilera

| | | | |
|--|--|---|---|
| Special Instructions/Comments Report to Karen.Bunker@global.com | Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: 05/03/13 Requested Report Date: 5/10/13 | Report Requirements I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data PQL/MDL/1 <u>N</u> EDD <u>N</u> | Invoice Information CSOB 300 West PO# R1302733 Bill to |
|--|--|---|---|

Relinquished By: *[Signature]* 4/23/13 Received By: *[Signature]* 4/24/13 10:00 Airbill Number:

Sample Acceptance Check Form

Client: Energy Solutions, Inc. Work order: R1302733

Project: Leica 137015

Sample(s) received on: 4/24/13 Date opened: 4/24/13 by: MZAMORA

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by ALS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? Cooler Temperature: 3° C Blank Temperature: ° C | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Wet Ice | | | |
| 9 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 Were custody seals on outside of cooler/Box? Location of seal(s)? <u>Front of cooler, covering opening.</u> Sealing Lid? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were signature and date included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were seals intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were custody seals on outside of sample container? Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate preservation , according to method/SOP or Client specified information? Is there a client indication that the submitted samples are pH preserved? Were VOA vials checked for presence/absence of air bubbles? Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|-----------------|-----------------------|---------------|-------------|-------------|----------------------------------|---------------------------------|
| R1302733-001.04 | 4oz Glass Jar | | | | | |
| R1302733-002.04 | 4oz Glass Jar | | | | | |
| R1302733-003.04 | 4oz Glass Jar | | | | | |
| R1302733-004.04 | 4oz Glass Jar | | | | | |
| R1302733-005.04 | 4oz Glass Jar | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Explain any discrepancies: (include lab sample ID numbers): _____

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-01
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 5.0 | ND | 2.9 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 5.0 | ND | 1.0 | |
| 74-87-3 | Chloromethane | ND | 5.0 | ND | 2.4 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 5.0 | ND | 0.72 | |
| 75-01-4 | Vinyl Chloride | ND | 5.0 | ND | 2.0 | |
| 106-99-0 | 1,3-Butadiene | ND | 5.0 | ND | 2.3 | |
| 74-83-9 | Bromomethane | ND | 5.0 | ND | 1.3 | |
| 75-00-3 | Chloroethane | ND | 5.0 | ND | 1.9 | |
| 64-17-5 | Ethanol | 70 | 50 | 37 | 27 | |
| 75-05-8 | Acetonitrile | 36 | 5.0 | 22 | 3.0 | |
| 107-02-8 | Acrolein | ND | 20 | ND | 8.7 | |
| 67-64-1 | Acetone | 220 | 50 | 91 | 21 | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | ND | 0.89 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 50 | ND | 20 | |
| 107-13-1 | Acrylonitrile | ND | 5.0 | ND | 2.3 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | ND | 1.4 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 5.0 | ND | 1.6 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.0 | ND | 0.65 | |
| 75-15-0 | Carbon Disulfide | ND | 50 | ND | 16 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 5.0 | ND | 1.4 | |
| 108-05-4 | Vinyl Acetate | ND | 50 | ND | 14 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | ND | 17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-01
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 141-78-6 | Ethyl Acetate | ND | 10 | ND | 2.8 | |
| 110-54-3 | n-Hexane | 5.5 | 5.0 | 1.6 | 1.4 | |
| 67-66-3 | Chloroform | ND | 5.0 | ND | 1.0 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 5.0 | ND | 1.7 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 71-43-2 | Benzene | ND | 5.0 | ND | 1.6 | |
| 56-23-5 | Carbon Tetrachloride | ND | 5.0 | ND | 0.80 | |
| 110-82-7 | Cyclohexane | ND | 10 | ND | 2.9 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | ND | 1.1 | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | ND | 0.75 | |
| 79-01-6 | Trichloroethene | 6.4 | 5.0 | 1.2 | 0.93 | |
| 123-91-1 | 1,4-Dioxane | 5.4 | 5.0 | 1.5 | 1.4 | |
| 80-62-6 | Methyl Methacrylate | ND | 10 | ND | 2.4 | |
| 142-82-5 | n-Heptane | 12 | 5.0 | 2.9 | 1.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | ND | 1.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 108-88-3 | Toluene | 27 | 5.0 | 7.2 | 1.3 | |
| 591-78-6 | 2-Hexanone | 21 | 5.0 | 5.0 | 1.2 | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ND | 0.59 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | ND | 0.65 | |
| 123-86-4 | n-Butyl Acetate | ND | 5.0 | ND | 1.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-01
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 23 | 5.0 | 4.9 | 1.1 | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | ND | 0.74 | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | ND | 1.1 | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | ND | 1.2 | |
| 179601-23-1 | m,p-Xylenes | ND | 10 | ND | 2.3 | |
| 75-25-2 | Bromoform | ND | 5.0 | ND | 0.48 | |
| 100-42-5 | Styrene | ND | 5.0 | ND | 1.2 | |
| 95-47-6 | o-Xylene | ND | 5.0 | ND | 1.2 | |
| 111-84-2 | n-Nonane | 18 | 5.0 | 3.4 | 0.95 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | ND | 0.73 | |
| 98-82-8 | Cumene | ND | 5.0 | ND | 1.0 | |
| 80-56-8 | alpha-Pinene | ND | 5.0 | ND | 0.90 | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | ND | 1.0 | |
| 622-96-8 | 4-Ethyltoluene | ND | 5.0 | ND | 1.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | ND | 1.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | ND | 1.0 | |
| 100-44-7 | Benzyl Chloride | ND | 5.0 | ND | 0.97 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 5989-27-5 | d-Limonene | ND | 5.0 | ND | 0.90 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | ND | 0.52 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | ND | 0.67 | |
| 91-20-3 | Naphthalene | ND | 5.0 | ND | 0.95 | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | ND | 0.47 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-02
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.0090 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 56 | ND | 32 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 56 | ND | 11 | |
| 74-87-3 | Chloromethane | ND | 56 | ND | 27 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 56 | ND | 8.0 | |
| 75-01-4 | Vinyl Chloride | ND | 56 | ND | 22 | |
| 106-99-0 | 1,3-Butadiene | ND | 56 | ND | 25 | |
| 74-83-9 | Bromomethane | ND | 56 | ND | 14 | |
| 75-00-3 | Chloroethane | ND | 56 | ND | 21 | |
| 64-17-5 | Ethanol | ND | 560 | ND | 290 | |
| 75-05-8 | Acetonitrile | ND | 56 | ND | 33 | |
| 107-02-8 | Acrolein | ND | 220 | ND | 97 | |
| 67-64-1 | Acetone | ND | 560 | ND | 230 | |
| 75-69-4 | Trichlorofluoromethane | ND | 56 | ND | 9.9 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 560 | ND | 230 | |
| 107-13-1 | Acrylonitrile | ND | 56 | ND | 26 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 56 | ND | 14 | |
| 75-09-2 | Methylene Chloride | ND | 56 | ND | 16 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 56 | ND | 18 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 56 | ND | 7.3 | |
| 75-15-0 | Carbon Disulfide | ND | 560 | ND | 180 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 56 | ND | 14 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 56 | ND | 14 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 56 | ND | 15 | |
| 108-05-4 | Vinyl Acetate | ND | 560 | ND | 160 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 560 | ND | 190 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-02
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.0090 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | 61 | 56 | 15 | 14 | |
| 141-78-6 | Ethyl Acetate | ND | 110 | ND | 31 | |
| 110-54-3 | n-Hexane | ND | 56 | ND | 16 | |
| 67-66-3 | Chloroform | ND | 56 | ND | 11 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 56 | ND | 19 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 56 | ND | 14 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 56 | ND | 10 | |
| 71-43-2 | Benzene | ND | 56 | ND | 17 | |
| 56-23-5 | Carbon Tetrachloride | ND | 56 | ND | 8.8 | |
| 110-82-7 | Cyclohexane | ND | 110 | ND | 32 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 56 | ND | 12 | |
| 75-27-4 | Bromodichloromethane | ND | 56 | ND | 8.3 | |
| 79-01-6 | Trichloroethene | 110 | 56 | 21 | 10 | |
| 123-91-1 | 1,4-Dioxane | ND | 56 | ND | 15 | |
| 80-62-6 | Methyl Methacrylate | ND | 110 | ND | 27 | |
| 142-82-5 | n-Heptane | 110 | 56 | 28 | 14 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 56 | ND | 12 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 56 | ND | 14 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 56 | ND | 12 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 56 | ND | 10 | |
| 108-88-3 | Toluene | 74 | 56 | 20 | 15 | |
| 591-78-6 | 2-Hexanone | ND | 56 | ND | 14 | |
| 124-48-1 | Dibromochloromethane | ND | 56 | ND | 6.5 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 56 | ND | 7.2 | |
| 123-86-4 | n-Butyl Acetate | ND | 56 | ND | 12 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-02
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.0090 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 950 | 56 | 200 | 12 | |
| 127-18-4 | Tetrachloroethene | ND | 56 | ND | 8.2 | |
| 108-90-7 | Chlorobenzene | ND | 56 | ND | 12 | |
| 100-41-4 | Ethylbenzene | ND | 56 | ND | 13 | |
| 179601-23-1 | m,p-Xylenes | 210 | 110 | 48 | 26 | |
| 75-25-2 | Bromoform | ND | 56 | ND | 5.4 | |
| 100-42-5 | Styrene | ND | 56 | ND | 13 | |
| 95-47-6 | o-Xylene | 110 | 56 | 26 | 13 | |
| 111-84-2 | n-Nonane | 870 | 56 | 170 | 11 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 56 | ND | 8.1 | |
| 98-82-8 | Cumene | ND | 56 | ND | 11 | |
| 80-56-8 | alpha-Pinene | ND | 56 | ND | 10 | |
| 103-65-1 | n-Propylbenzene | ND | 56 | ND | 11 | |
| 622-96-8 | 4-Ethyltoluene | ND | 56 | ND | 11 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 77 | 56 | 16 | 11 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 81 | 56 | 17 | 11 | |
| 100-44-7 | Benzyl Chloride | ND | 56 | ND | 11 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 56 | ND | 9.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 56 | ND | 9.2 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 56 | ND | 9.2 | |
| 5989-27-5 | d-Limonene | ND | 56 | ND | 10 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 56 | ND | 5.7 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 56 | ND | 7.5 | |
| 91-20-3 | Naphthalene | ND | 56 | ND | 11 | |
| 87-68-3 | Hexachlorobutadiene | ND | 56 | ND | 5.2 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-03
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-003

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | 9.9 | 5.0 | 5.7 | 2.9 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 5.0 | ND | 1.0 | |
| 74-87-3 | Chloromethane | ND | 5.0 | ND | 2.4 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 5.0 | ND | 0.72 | |
| 75-01-4 | Vinyl Chloride | ND | 5.0 | ND | 2.0 | |
| 106-99-0 | 1,3-Butadiene | ND | 5.0 | ND | 2.3 | |
| 74-83-9 | Bromomethane | ND | 5.0 | ND | 1.3 | |
| 75-00-3 | Chloroethane | ND | 5.0 | ND | 1.9 | |
| 64-17-5 | Ethanol | ND | 50 | ND | 27 | |
| 75-05-8 | Acetonitrile | 8.2 | 5.0 | 4.9 | 3.0 | |
| 107-02-8 | Acrolein | ND | 20 | ND | 8.7 | |
| 67-64-1 | Acetone | 530 | 50 | 220 | 21 | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | ND | 0.89 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 50 | ND | 20 | |
| 107-13-1 | Acrylonitrile | ND | 5.0 | ND | 2.3 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | ND | 1.4 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 5.0 | ND | 1.6 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.0 | ND | 0.65 | |
| 75-15-0 | Carbon Disulfide | ND | 50 | ND | 16 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 5.0 | ND | 1.4 | |
| 108-05-4 | Vinyl Acetate | ND | 50 | ND | 14 | |
| 78-93-3 | 2-Butanone (MEK) | 91 | 50 | 31 | 17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-03
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-003

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 141-78-6 | Ethyl Acetate | ND | 10 | ND | 2.8 | |
| 110-54-3 | n-Hexane | 130 | 5.0 | 38 | 1.4 | |
| 67-66-3 | Chloroform | ND | 5.0 | ND | 1.0 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 5.0 | ND | 1.7 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 71-43-2 | Benzene | 18 | 5.0 | 5.6 | 1.6 | |
| 56-23-5 | Carbon Tetrachloride | ND | 5.0 | ND | 0.80 | |
| 110-82-7 | Cyclohexane | 480 | 10 | 140 | 2.9 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | ND | 1.1 | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | ND | 0.75 | |
| 79-01-6 | Trichloroethene | 8.6 | 5.0 | 1.6 | 0.93 | |
| 123-91-1 | 1,4-Dioxane | ND | 5.0 | ND | 1.4 | |
| 80-62-6 | Methyl Methacrylate | ND | 10 | ND | 2.4 | |
| 142-82-5 | n-Heptane | 250 | 5.0 | 60 | 1.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 108-10-1 | 4-Methyl-2-pentanone | 8.5 | 5.0 | 2.1 | 1.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 108-88-3 | Toluene | 100 | 5.0 | 28 | 1.3 | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | ND | 1.2 | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ND | 0.59 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | ND | 0.65 | |
| 123-86-4 | n-Butyl Acetate | ND | 5.0 | ND | 1.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-03
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-003

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 250 | 5.0 | 54 | 1.1 | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | ND | 0.74 | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | ND | 1.1 | |
| 100-41-4 | Ethylbenzene | 27 | 5.0 | 6.3 | 1.2 | |
| 179601-23-1 | m,p-Xylenes | 130 | 10 | 31 | 2.3 | |
| 75-25-2 | Bromoform | ND | 5.0 | ND | 0.48 | |
| 100-42-5 | Styrene | ND | 5.0 | ND | 1.2 | |
| 95-47-6 | o-Xylene | 40 | 5.0 | 9.2 | 1.2 | |
| 111-84-2 | n-Nonane | 180 | 5.0 | 34 | 0.95 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | ND | 0.73 | |
| 98-82-8 | Cumene | 6.8 | 5.0 | 1.4 | 1.0 | |
| 80-56-8 | alpha-Pinene | ND | 5.0 | ND | 0.90 | |
| 103-65-1 | n-Propylbenzene | 9.0 | 5.0 | 1.8 | 1.0 | |
| 622-96-8 | 4-Ethyltoluene | 5.5 | 5.0 | 1.1 | 1.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 18 | 5.0 | 3.6 | 1.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 33 | 5.0 | 6.7 | 1.0 | |
| 100-44-7 | Benzyl Chloride | ND | 5.0 | ND | 0.97 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 5989-27-5 | d-Limonene | ND | 5.0 | ND | 0.90 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | ND | 0.52 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | ND | 0.67 | |
| 91-20-3 | Naphthalene | ND | 5.0 | ND | 0.95 | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | ND | 0.47 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-04
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-004

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/10/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | 15 | 5.0 | 8.9 | 2.9 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 5.0 | ND | 1.0 | |
| 74-87-3 | Chloromethane | ND | 5.0 | ND | 2.4 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 5.0 | ND | 0.72 | |
| 75-01-4 | Vinyl Chloride | ND | 5.0 | ND | 2.0 | |
| 106-99-0 | 1,3-Butadiene | ND | 5.0 | ND | 2.3 | |
| 74-83-9 | Bromomethane | ND | 5.0 | ND | 1.3 | |
| 75-00-3 | Chloroethane | ND | 5.0 | ND | 1.9 | |
| 64-17-5 | Ethanol | ND | 50 | ND | 27 | |
| 75-05-8 | Acetonitrile | 15 | 5.0 | 8.8 | 3.0 | |
| 107-02-8 | Acrolein | ND | 20 | ND | 8.7 | |
| 67-64-1 | Acetone | 3,200 | 50 | 1,300 | 21 | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | ND | 0.89 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 64 | 50 | 26 | 20 | |
| 107-13-1 | Acrylonitrile | ND | 5.0 | ND | 2.3 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-09-2 | Methylene Chloride | 5.7 | 5.0 | 1.7 | 1.4 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 5.0 | ND | 1.6 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.0 | ND | 0.65 | |
| 75-15-0 | Carbon Disulfide | 58 | 50 | 19 | 16 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 5.0 | ND | 1.4 | |
| 108-05-4 | Vinyl Acetate | ND | 50 | ND | 14 | |
| 78-93-3 | 2-Butanone (MEK) | 840 | 50 | 290 | 17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-04
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-004

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/10/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 141-78-6 | Ethyl Acetate | ND | 10 | ND | 2.8 | |
| 110-54-3 | n-Hexane | 26 | 5.0 | 7.4 | 1.4 | |
| 67-66-3 | Chloroform | ND | 5.0 | ND | 1.0 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 5.0 | ND | 1.7 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 71-43-2 | Benzene | 7.2 | 5.0 | 2.3 | 1.6 | |
| 56-23-5 | Carbon Tetrachloride | ND | 5.0 | ND | 0.80 | |
| 110-82-7 | Cyclohexane | 14 | 10 | 4.0 | 2.9 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | ND | 1.1 | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | ND | 0.75 | |
| 79-01-6 | Trichloroethene | 40 | 5.0 | 7.5 | 0.93 | |
| 123-91-1 | 1,4-Dioxane | ND | 5.0 | ND | 1.4 | |
| 80-62-6 | Methyl Methacrylate | ND | 10 | ND | 2.4 | |
| 142-82-5 | n-Heptane | 40 | 5.0 | 9.8 | 1.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 108-10-1 | 4-Methyl-2-pentanone | 78 | 5.0 | 19 | 1.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 108-88-3 | Toluene | 67 | 5.0 | 18 | 1.3 | |
| 591-78-6 | 2-Hexanone | 120 | 5.0 | 29 | 1.2 | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ND | 0.59 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | ND | 0.65 | |
| 123-86-4 | n-Butyl Acetate | ND | 5.0 | ND | 1.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-04
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-004

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/10/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 30 | 5.0 | 6.4 | 1.1 | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | ND | 0.74 | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | ND | 1.1 | |
| 100-41-4 | Ethylbenzene | 10 | 5.0 | 2.3 | 1.2 | |
| 179601-23-1 | m,p-Xylenes | 27 | 10 | 6.2 | 2.3 | |
| 75-25-2 | Bromoform | ND | 5.0 | ND | 0.48 | |
| 100-42-5 | Styrene | 6.8 | 5.0 | 1.6 | 1.2 | |
| 95-47-6 | o-Xylene | 12 | 5.0 | 2.7 | 1.2 | |
| 111-84-2 | n-Nonane | 220 | 5.0 | 41 | 0.95 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | ND | 0.73 | |
| 98-82-8 | Cumene | ND | 5.0 | ND | 1.0 | |
| 80-56-8 | alpha-Pinene | 120 | 5.0 | 21 | 0.90 | |
| 103-65-1 | n-Propylbenzene | 8.1 | 5.0 | 1.6 | 1.0 | |
| 622-96-8 | 4-Ethyltoluene | 11 | 5.0 | 2.2 | 1.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 44 | 5.0 | 9.0 | 1.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 77 | 5.0 | 16 | 1.0 | |
| 100-44-7 | Benzyl Chloride | ND | 5.0 | ND | 0.97 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 5989-27-5 | d-Limonene | 6.6 | 5.0 | 1.2 | 0.90 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | ND | 0.52 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | ND | 0.67 | |
| 91-20-3 | Naphthalene | ND | 5.0 | ND | 0.95 | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | ND | 0.47 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-05
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-005

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | 7.1 | 5.0 | 4.1 | 2.9 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 5.0 | ND | 1.0 | |
| 74-87-3 | Chloromethane | ND | 5.0 | ND | 2.4 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 5.0 | ND | 0.72 | |
| 75-01-4 | Vinyl Chloride | ND | 5.0 | ND | 2.0 | |
| 106-99-0 | 1,3-Butadiene | ND | 5.0 | ND | 2.3 | |
| 74-83-9 | Bromomethane | ND | 5.0 | ND | 1.3 | |
| 75-00-3 | Chloroethane | ND | 5.0 | ND | 1.9 | |
| 64-17-5 | Ethanol | ND | 50 | ND | 27 | |
| 75-05-8 | Acetonitrile | 5.4 | 5.0 | 3.2 | 3.0 | |
| 107-02-8 | Acrolein | ND | 20 | ND | 8.7 | |
| 67-64-1 | Acetone | 1,000 | 50 | 440 | 21 | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | ND | 0.89 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 50 | ND | 20 | |
| 107-13-1 | Acrylonitrile | ND | 5.0 | ND | 2.3 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | ND | 1.4 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 5.0 | ND | 1.6 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.0 | ND | 0.65 | |
| 75-15-0 | Carbon Disulfide | ND | 50 | ND | 16 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 5.0 | ND | 1.4 | |
| 108-05-4 | Vinyl Acetate | ND | 50 | ND | 14 | |
| 78-93-3 | 2-Butanone (MEK) | 56 | 50 | 19 | 17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-05
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-005

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 141-78-6 | Ethyl Acetate | ND | 10 | ND | 2.8 | |
| 110-54-3 | n-Hexane | 58 | 5.0 | 16 | 1.4 | |
| 67-66-3 | Chloroform | ND | 5.0 | ND | 1.0 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 5.0 | ND | 1.7 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 71-43-2 | Benzene | 11 | 5.0 | 3.4 | 1.6 | |
| 56-23-5 | Carbon Tetrachloride | ND | 5.0 | ND | 0.80 | |
| 110-82-7 | Cyclohexane | 150 | 10 | 45 | 2.9 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | ND | 1.1 | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | ND | 0.75 | |
| 79-01-6 | Trichloroethene | ND | 5.0 | ND | 0.93 | |
| 123-91-1 | 1,4-Dioxane | ND | 5.0 | ND | 1.4 | |
| 80-62-6 | Methyl Methacrylate | ND | 10 | ND | 2.4 | |
| 142-82-5 | n-Heptane | 83 | 5.0 | 20 | 1.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | ND | 1.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 108-88-3 | Toluene | 38 | 5.0 | 10 | 1.3 | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | ND | 1.2 | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ND | 0.59 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | ND | 0.65 | |
| 123-86-4 | n-Butyl Acetate | ND | 5.0 | ND | 1.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-05
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-005

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 82 | 5.0 | 18 | 1.1 | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | ND | 0.74 | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | ND | 1.1 | |
| 100-41-4 | Ethylbenzene | 15 | 5.0 | 3.5 | 1.2 | |
| 179601-23-1 | m,p-Xylenes | 62 | 10 | 14 | 2.3 | |
| 75-25-2 | Bromoform | ND | 5.0 | ND | 0.48 | |
| 100-42-5 | Styrene | ND | 5.0 | ND | 1.2 | |
| 95-47-6 | o-Xylene | 20 | 5.0 | 4.7 | 1.2 | |
| 111-84-2 | n-Nonane | 69 | 5.0 | 13 | 0.95 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | ND | 0.73 | |
| 98-82-8 | Cumene | ND | 5.0 | ND | 1.0 | |
| 80-56-8 | alpha-Pinene | ND | 5.0 | ND | 0.90 | |
| 103-65-1 | n-Propylbenzene | 5.2 | 5.0 | 1.1 | 1.0 | |
| 622-96-8 | 4-Ethyltoluene | ND | 5.0 | ND | 1.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 5.0 | 2.1 | 1.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 20 | 5.0 | 4.1 | 1.0 | |
| 100-44-7 | Benzyl Chloride | ND | 5.0 | ND | 0.97 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 5989-27-5 | d-Limonene | ND | 5.0 | ND | 0.90 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | ND | 0.52 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | ND | 0.67 | |
| 91-20-3 | Naphthalene | ND | 5.0 | ND | 0.95 | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | ND | 0.47 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: P130509-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/9/13
Volume(s) Analyzed: 1.00 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 0.50 | ND | 0.29 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | ND | 0.10 | |
| 74-87-3 | Chloromethane | ND | 0.50 | ND | 0.24 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | ND | 0.072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.50 | ND | 0.23 | |
| 74-83-9 | Bromomethane | ND | 0.50 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.50 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 0.50 | ND | 0.30 | |
| 107-02-8 | Acrolein | ND | 2.0 | ND | 0.87 | |
| 67-64-1 | Acetone | ND | 5.0 | ND | 2.1 | |
| 75-69-4 | Trichlorofluoromethane | ND | 0.50 | ND | 0.089 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 5.0 | ND | 2.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | ND | 0.23 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | ND | 0.14 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.50 | ND | 0.16 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.50 | ND | 0.065 | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | ND | 1.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.50 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | ND | 1.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica 137015

CAS Project ID: R1302733
 CAS Sample ID: P130509-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/9/13
Volume(s) Analyzed: 1.00 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.50 | ND | 0.14 | |
| 67-66-3 | Chloroform | ND | 0.50 | ND | 0.10 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.50 | ND | 0.17 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.50 | ND | 0.080 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | ND | 0.075 | |
| 79-01-6 | Trichloroethene | ND | 0.50 | ND | 0.093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.50 | ND | 0.12 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | ND | 0.12 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 108-88-3 | Toluene | ND | 0.50 | ND | 0.13 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | ND | 0.12 | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | ND | 0.059 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | ND | 0.065 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.50 | ND | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: P130509-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/9/13
Volume(s) Analyzed: 1.00 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.50 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.50 | ND | 0.048 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.50 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.50 | ND | 0.095 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 0.073 | |
| 98-82-8 | Cumene | ND | 0.50 | ND | 0.10 | |
| 80-56-8 | alpha-Pinene | ND | 0.50 | ND | 0.090 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | ND | 0.10 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | ND | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 100-44-7 | Benzyl Chloride | ND | 0.50 | ND | 0.097 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | ND | 0.052 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 0.067 | |
| 91-20-3 | Naphthalene | ND | 0.50 | ND | 0.095 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | ND | 0.047 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Chamber Blank
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: P130509-CB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 5.0 | ND | 2.9 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 5.0 | ND | 1.0 | |
| 74-87-3 | Chloromethane | ND | 5.0 | ND | 2.4 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 5.0 | ND | 0.72 | |
| 75-01-4 | Vinyl Chloride | ND | 5.0 | ND | 2.0 | |
| 106-99-0 | 1,3-Butadiene | ND | 5.0 | ND | 2.3 | |
| 74-83-9 | Bromomethane | ND | 5.0 | ND | 1.3 | |
| 75-00-3 | Chloroethane | ND | 5.0 | ND | 1.9 | |
| 64-17-5 | Ethanol | ND | 50 | ND | 27 | |
| 75-05-8 | Acetonitrile | ND | 5.0 | ND | 3.0 | |
| 107-02-8 | Acrolein | ND | 20 | ND | 8.7 | |
| 67-64-1 | Acetone | ND | 50 | ND | 21 | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | ND | 0.89 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 50 | ND | 20 | |
| 107-13-1 | Acrylonitrile | ND | 5.0 | ND | 2.3 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | ND | 1.4 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 5.0 | ND | 1.6 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.0 | ND | 0.65 | |
| 75-15-0 | Carbon Disulfide | ND | 50 | ND | 16 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 5.0 | ND | 1.4 | |
| 108-05-4 | Vinyl Acetate | ND | 50 | ND | 14 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | ND | 17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Chamber Blank
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: P130509-CB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | ND | 1.3 | |
| 141-78-6 | Ethyl Acetate | ND | 10 | ND | 2.8 | |
| 110-54-3 | n-Hexane | ND | 5.0 | ND | 1.4 | |
| 67-66-3 | Chloroform | ND | 5.0 | ND | 1.0 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 5.0 | ND | 1.7 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | ND | 1.2 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 71-43-2 | Benzene | ND | 5.0 | ND | 1.6 | |
| 56-23-5 | Carbon Tetrachloride | ND | 5.0 | ND | 0.80 | |
| 110-82-7 | Cyclohexane | ND | 10 | ND | 2.9 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | ND | 1.1 | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | ND | 0.75 | |
| 79-01-6 | Trichloroethene | ND | 5.0 | ND | 0.93 | |
| 123-91-1 | 1,4-Dioxane | ND | 5.0 | ND | 1.4 | |
| 80-62-6 | Methyl Methacrylate | ND | 10 | ND | 2.4 | |
| 142-82-5 | n-Heptane | ND | 5.0 | ND | 1.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | ND | 1.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | ND | 1.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | ND | 0.92 | |
| 108-88-3 | Toluene | ND | 5.0 | ND | 1.3 | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | ND | 1.2 | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ND | 0.59 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | ND | 0.65 | |
| 123-86-4 | n-Butyl Acetate | ND | 5.0 | ND | 1.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Chamber Blank
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: P130509-CB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 5.0 | ND | 1.1 | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | ND | 0.74 | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | ND | 1.1 | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | ND | 1.2 | |
| 179601-23-1 | m,p-Xylenes | ND | 10 | ND | 2.3 | |
| 75-25-2 | Bromoform | ND | 5.0 | ND | 0.48 | |
| 100-42-5 | Styrene | ND | 5.0 | ND | 1.2 | |
| 95-47-6 | o-Xylene | ND | 5.0 | ND | 1.2 | |
| 111-84-2 | n-Nonane | ND | 5.0 | ND | 0.95 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | ND | 0.73 | |
| 98-82-8 | Cumene | ND | 5.0 | ND | 1.0 | |
| 80-56-8 | alpha-Pinene | ND | 5.0 | ND | 0.90 | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | ND | 1.0 | |
| 622-96-8 | 4-Ethyltoluene | ND | 5.0 | ND | 1.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | ND | 1.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | ND | 1.0 | |
| 100-44-7 | Benzyl Chloride | ND | 5.0 | ND | 0.97 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | ND | 0.83 | |
| 5989-27-5 | d-Limonene | ND | 5.0 | ND | 0.90 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | ND | 0.52 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | ND | 0.67 | |
| 91-20-3 | Naphthalene | ND | 5.0 | ND | 0.95 | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | ND | 0.47 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Energy Solutions, Inc.
Client Project ID: Leica 137015

CAS Project ID: R1302733

Test Code: EPA TO-15 Modified
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: John Rice
 Sample Type: 40 mL Glass Vial(s)
 Test Notes:

Date(s) Collected: 4/19/13
 Date(s) Received: 4/19/13
 Date(s) Analyzed: 5/9 - 5/10/13

| Client Sample ID | CAS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|--------------------|-----------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P130509-MB | 99 | 102 | 100 | 70-130 | |
| Lab Control Sample | P130509-LCS | 100 | 101 | 99 | 70-130 | |
| Chamber Blank | P130509-CB | 96 | 103 | 102 | 70-130 | |
| CC-01 | R1302733-001 | 98 | 101 | 102 | 70-130 | |
| CC-02 | R1302733-002 | 96 | 97 | 98 | 70-130 | |
| CC-03 | R1302733-003 | 96 | 98 | 100 | 70-130 | |
| CC-03 | R1302733-003DUP | 97 | 98 | 99 | 70-130 | |
| CC-04 | R1302733-004 | 95 | 101 | 104 | 70-130 | |
| CC-05 | R1302733-005 | 100 | 100 | 99 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica 137015

CAS Project ID: R1302733
 CAS Sample ID: P130509-LCS

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/09/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 115-07-1 | Propene | 204 | 231 | 113 | 58-139 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 202 | 202 | 100 | 63-115 | |
| 74-87-3 | Chloromethane | 196 | 177 | 90 | 58-122 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 206 | 188 | 91 | 65-115 | |
| 75-01-4 | Vinyl Chloride | 200 | 187 | 94 | 64-122 | |
| 106-99-0 | 1,3-Butadiene | 210 | 215 | 102 | 57-141 | |
| 74-83-9 | Bromomethane | 200 | 186 | 93 | 68-122 | |
| 75-00-3 | Chloroethane | 202 | 188 | 93 | 66-120 | |
| 64-17-5 | Ethanol | 958 | 961 | 100 | 58-126 | |
| 75-05-8 | Acetonitrile | 202 | 210 | 104 | 64-136 | |
| 107-02-8 | Acrolein | 204 | 220 | 108 | 58-129 | |
| 67-64-1 | Acetone | 1,040 | 1000 | 96 | 60-114 | |
| 75-69-4 | Trichlorofluoromethane | 210 | 180 | 86 | 62-107 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 396 | 374 | 94 | 54-118 | |
| 107-13-1 | Acrylonitrile | 206 | 250 | 121 | 72-143 | |
| 75-35-4 | 1,1-Dichloroethene | 218 | 211 | 97 | 69-119 | |
| 75-09-2 | Methylene Chloride | 212 | 202 | 95 | 64-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 214 | 228 | 107 | 59-131 | |
| 76-13-1 | Trichlorotrifluoroethane | 212 | 201 | 95 | 69-117 | |
| 75-15-0 | Carbon Disulfide | 208 | 203 | 98 | 65-115 | |
| 156-60-5 | trans-1,2-Dichloroethene | 202 | 204 | 101 | 70-126 | |
| 75-34-3 | 1,1-Dichloroethane | 206 | 201 | 98 | 68-116 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 204 | 213 | 104 | 69-120 | |
| 108-05-4 | Vinyl Acetate | 988 | 1150 | 116 | 58-160 | |
| 78-93-3 | 2-Butanone (MEK) | 212 | 251 | 118 | 70-127 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: P130509-LCS

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/09/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|-------------------|------|
| | | | | | Acceptance Limits | |
| 156-59-2 | cis-1,2-Dichloroethene | 214 | 213 | 100 | 70-119 | |
| 141-78-6 | Ethyl Acetate | 412 | 506 | 123 | 72-129 | |
| 110-54-3 | n-Hexane | 206 | 203 | 99 | 63-115 | |
| 67-66-3 | Chloroform | 222 | 205 | 92 | 68-110 | |
| 109-99-9 | Tetrahydrofuran (THF) | 208 | 208 | 100 | 60-126 | |
| 107-06-2 | 1,2-Dichloroethane | 208 | 209 | 100 | 69-118 | |
| 71-55-6 | 1,1,1-Trichloroethane | 204 | 198 | 97 | 68-120 | |
| 71-43-2 | Benzene | 208 | 191 | 92 | 69-117 | |
| 56-23-5 | Carbon Tetrachloride | 212 | 217 | 102 | 65-134 | |
| 110-82-7 | Cyclohexane | 402 | 389 | 97 | 69-114 | |
| 78-87-5 | 1,2-Dichloropropane | 204 | 199 | 98 | 70-116 | |
| 75-27-4 | Bromodichloromethane | 204 | 207 | 101 | 71-126 | |
| 79-01-6 | Trichloroethene | 198 | 199 | 101 | 71-119 | |
| 123-91-1 | 1,4-Dioxane | 206 | 242 | 117 | 72-126 | |
| 80-62-6 | Methyl Methacrylate | 414 | 516 | 125 | 75-136 | |
| 142-82-5 | n-Heptane | 202 | 199 | 99 | 70-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 196 | 237 | 121 | 75-132 | |
| 108-10-1 | 4-Methyl-2-pentanone | 210 | 233 | 111 | 70-133 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 218 | 259 | 119 | 78-136 | |
| 79-00-5 | 1,1,2-Trichloroethane | 202 | 201 | 100 | 72-119 | |
| 108-88-3 | Toluene | 208 | 206 | 99 | 65-116 | |
| 591-78-6 | 2-Hexanone | 228 | 262 | 115 | 62-132 | |
| 124-48-1 | Dibromochloromethane | 216 | 235 | 109 | 66-140 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 231 | 111 | 69-130 | |
| 123-86-4 | n-Butyl Acetate | 228 | 271 | 119 | 63-136 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica 137015

CAS Project ID: R1302733
 CAS Sample ID: P130509-LCS

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/09/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 111-65-9 | n-Octane | 206 | 211 | 102 | 66-118 | |
| 127-18-4 | Tetrachloroethene | 190 | 185 | 97 | 63-123 | |
| 108-90-7 | Chlorobenzene | 208 | 206 | 99 | 66-118 | |
| 100-41-4 | Ethylbenzene | 206 | 215 | 104 | 66-119 | |
| 179601-23-1 | m,p-Xylenes | 412 | 402 | 98 | 64-118 | |
| 75-25-2 | Bromoform | 216 | 231 | 107 | 64-140 | |
| 100-42-5 | Styrene | 208 | 241 | 116 | 68-132 | |
| 95-47-6 | o-Xylene | 200 | 202 | 101 | 65-120 | |
| 111-84-2 | n-Nonane | 202 | 209 | 103 | 64-117 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 198 | 201 | 102 | 63-128 | |
| 98-82-8 | Cumene | 196 | 199 | 102 | 65-121 | |
| 80-56-8 | alpha-Pinene | 192 | 198 | 103 | 66-123 | |
| 103-65-1 | n-Propylbenzene | 198 | 205 | 104 | 65-121 | |
| 622-96-8 | 4-Ethyltoluene | 204 | 201 | 99 | 64-122 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 203 | 98 | 64-125 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 200 | 214 | 107 | 64-131 | |
| 100-44-7 | Benzyl Chloride | 206 | 244 | 118 | 67-146 | |
| 541-73-1 | 1,3-Dichlorobenzene | 206 | 222 | 108 | 64-130 | |
| 106-46-7 | 1,4-Dichlorobenzene | 212 | 206 | 97 | 61-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 204 | 202 | 99 | 63-126 | |
| 5989-27-5 | d-Limonene | 206 | 230 | 112 | 62-133 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 202 | 226 | 112 | 62-155 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 200 | 212 | 106 | 59-146 | |
| 91-20-3 | Naphthalene | 178 | 193 | 108 | 56-143 | |
| 87-68-3 | Hexachlorobutadiene | 208 | 199 | 96 | 58-133 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-03
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-003DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|--|-------------------|------|-------------------------|------|------------------------------|------------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Propene | 9.87 | 5.74 | 10.2 | 5.92 | 10.035 | 3 | 25 | |
| Dichlorodifluoromethane (CFC 12) | ND | ND | ND | ND | - | - | 25 | |
| Chloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Butadiene | ND | ND | ND | ND | - | - | 25 | |
| Bromomethane | ND | ND | ND | ND | - | - | 25 | |
| Chloroethane | ND | ND | ND | ND | - | - | 25 | |
| Ethanol | ND | ND | ND | ND | - | - | 25 | |
| Acetonitrile | 8.19 | 4.88 | 8.11 | 4.83 | 8.15 | 1 | 25 | |
| Acrolein | ND | ND | ND | ND | - | - | 25 | |
| Acetone | 534 | 225 | 525 | 221 | 529.5 | 2 | 25 | |
| Trichlorofluoromethane | ND | ND | ND | ND | - | - | 25 | |
| 2-Propanol (Isopropyl Alcohol) | ND | ND | ND | ND | - | - | 25 | |
| Acrylonitrile | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| Methylene Chloride | ND | ND | ND | ND | - | - | 25 | |
| 3-Chloro-1-propene (Allyl Chloride) | ND | ND | ND | ND | - | - | 25 | |
| Trichlorotrifluoroethane | ND | ND | ND | ND | - | - | 25 | |
| Carbon Disulfide | ND | ND | ND | ND | - | - | 25 | |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Methyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Acetate | ND | ND | ND | ND | - | - | 25 | |
| 2-Butanone (MEK) | 90.8 | 30.8 | 90.9 | 30.8 | 90.85 | 0.1 | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-03
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-003DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|---------------------------|-------------------|------|-------------------------|------|------------------------------|-------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| Ethyl Acetate | ND | ND | ND | ND | - | - | 25 | |
| n-Hexane | 133 | 37.7 | 131 | 37.2 | 132 | 2 | 25 | |
| Chloroform | ND | ND | ND | ND | - | - | 25 | |
| Tetrahydrofuran (THF) | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Benzene | 17.8 | 5.56 | 17.3 | 5.42 | 17.55 | 3 | 25 | |
| Carbon Tetrachloride | ND | ND | ND | ND | - | - | 25 | |
| Cyclohexane | 476 | 138 | 467 | 136 | 471.5 | 2 | 25 | |
| 1,2-Dichloropropane | ND | ND | ND | ND | - | - | 25 | |
| Bromodichloromethane | ND | ND | ND | ND | - | - | 25 | |
| Trichloroethene | 8.63 | 1.61 | 8.47 | 1.58 | 8.55 | 2 | 25 | |
| 1,4-Dioxane | ND | ND | ND | ND | - | - | 25 | |
| Methyl Methacrylate | ND | ND | ND | ND | - | - | 25 | |
| n-Heptane | 245 | 59.9 | 241 | 58.9 | 243 | 2 | 25 | |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 4-Methyl-2-pentanone | 8.48 | 2.07 | 9.14 | 2.23 | 8.81 | 7 | 25 | |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Toluene | 104 | 27.7 | 103 | 27.3 | 103.5 | 1 | 25 | |
| 2-Hexanone | ND | ND | ND | ND | - | - | 25 | |
| Dibromochloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromoethane | ND | ND | ND | ND | - | - | 25 | |
| n-Butyl Acetate | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: CC-03
Client Project ID: Leica 137015

CAS Project ID: R1302733
CAS Sample ID: R1302733-003DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: John Rice
Sample Type: Solid
Test Notes:

Date Collected: 4/19/13
Date Received: 4/19/13
Date Analyzed: 5/9/13
Volume(s) Analyzed: 0.10 Liter(s)

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-----------------------------|-------------------|------|-------------------------|------|------------------------------|------------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| n-Octane | 254 | 54.4 | 250 | 53.5 | 252 | 2 | 25 | |
| Tetrachloroethene | ND | ND | ND | ND | - | - | 25 | |
| Chlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Ethylbenzene | 27.5 | 6.32 | 26.8 | 6.17 | 27.15 | 3 | 25 | |
| m,p-Xylenes | 133 | 30.7 | 131 | 30.1 | 132 | 2 | 25 | |
| Bromoform | ND | ND | ND | ND | - | - | 25 | |
| Styrene | ND | ND | ND | ND | - | - | 25 | |
| o-Xylene | 40.2 | 9.25 | 40.0 | 9.20 | 40.1 | 0.5 | 25 | |
| n-Nonane | 176 | 33.5 | 172 | 32.9 | 174 | 2 | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | - | - | 25 | |
| Cumene | 6.80 | 1.38 | 6.70 | 1.36 | 6.75 | 1 | 25 | |
| alpha-Pinene | ND | ND | ND | ND | - | - | 25 | |
| n-Propylbenzene | 9.00 | 1.83 | 9.02 | 1.84 | 9.01 | 0.2 | 25 | |
| 4-Ethyltoluene | 5.53 | 1.13 | 5.57 | 1.13 | 5.55 | 0.7 | 25 | |
| 1,3,5-Trimethylbenzene | 17.5 | 3.57 | 17.3 | 3.51 | 17.4 | 1 | 25 | |
| 1,2,4-Trimethylbenzene | 32.7 | 6.66 | 32.3 | 6.56 | 32.5 | 1 | 25 | |
| Benzyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| d-Limonene | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Naphthalene | ND | ND | ND | ND | - | - | 25 | |
| Hexachlorobutadiene | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

LABORATORY REPORT

May 7, 2013

Daniel Slywka
Energy Solutions, Inc.
100 Mill Plain Rd. 2nd Floor Mailbox 106
Danbury, CT 06811

RE: Leica / 137015

Dear Daniel:

Enclosed are the results of the samples submitted to our laboratory on April 23, 2013. For your reference, these analyses have been assigned our service request number P1301687.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental



By Kate Aguilera at 11:17 am, May 07, 2013

Kate Aguilera
Project Manager

Client: Energy Solutions, Inc.
Project: Leica / 137015

Service Request No: P1301687

CASE NARRATIVE

The samples were received intact under chain of custody on April 23, 2013 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Helium Analysis

Three of the samples were analyzed for helium according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD). This method is not included on the laboratory's NELAP scope of accreditation.

Volatile Organic Compound Analysis

All of the samples were also analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. The method was modified to include the use of nitrogen as a diluent gas in place of zero-grade air for canister pressurization. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The reporting limit is elevated for sample SB-2. The chromatogram indicated the presence of non-target background components. The sample was diluted in order to prevent damage to the instrument and to achieve optimal resolution of the target analytes.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of Columbia Analytical Services, Inc. dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Columbia Analytical Services, Inc. dba ALS Environmental – Simi Valley
 Certifications, Accreditations, and Registrations

| Agency | Web Site | Number |
|------------------------|---|----------------------------|
| AIHA | http://www.aihaaccreditedlabs.org | 101661 |
| Arizona DHS | http://www.azdhs.gov/lab/license/env.htm | AZ0694 |
| DoD ELAP | http://www.pjlabs.com/search-accredited-labs | L11-203 |
| Florida DOH (NELAP) | http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm | E871020 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm | 2012039 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 494864 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/oqa/ | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | CA200007 |
| Pennsylvania DEP | http://www.depweb.state.pa.us/labs | 68-03307 (Registration) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html | T104704413-12-3 |
| Utah DOH (NELAP) | http://www.health.utah.gov/lab/labimp/certification/index.html | CA01527201 2-2 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |

Analyses were performed according to our laboratory’s NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.caslab.com, www.alsglobal.com, or at the accreditation body’s website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

DETAIL SUMMARY REPORT

Client: Energy Solutions, Inc.
 Project ID: Leica / 137015

Service Request: P1301687

Date Received: 4/23/2013
 Time Received: 10:20

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Container ID | Pi1 (psig) | Pf1 (psig) | TO-15 - VOC Cans | |
|------------------|--------------|--------|----------------|----------------|--------------|------------|------------|------------------|--------------------------|
| | | | | | | | | TO-15 - VOC Cans | 3C Modified - Helium Can |
| AA-8hr-049 | P1301687-001 | Air | 4/17/2013 | 17:10 | AC01082 | -3.06 | 3.68 | X | |
| AA-8hr-050 | P1301687-002 | Air | 4/17/2013 | 17:00 | AS00127 | 0.61 | 3.81 | X | |
| AA-8hr-048 | P1301687-003 | Air | 4/17/2013 | 17:10 | AC01617 | -2.39 | 3.64 | X | |
| AA-8hr-047 | P1301687-004 | Air | 4/17/2013 | 17:15 | AC01110 | -2.29 | 3.60 | X | |
| AA-8hr-046 | P1301687-005 | Air | 4/17/2013 | 17:10 | AC01163 | -4.92 | 3.73 | X | |
| SB-1 | P1301687-006 | Air | 4/18/2013 | 16:00 | AC01131 | -5.68 | 3.44 | X | X |
| IA-1 | P1301687-007 | Air | 4/18/2013 | 16:00 | AC01013 | -2.30 | 3.67 | X | |
| SB-2 | P1301687-008 | Air | 4/18/2013 | 16:20 | AC01482 | -9.52 | 3.49 | X | X |
| IA-2 | P1301687-009 | Air | 4/18/2013 | 16:20 | AC01284 | -3.58 | 3.72 | X | |
| SB-6 | P1301687-010 | Air | 4/18/2013 | 16:15 | AC01580 | -3.52 | 3.55 | X | X |
| IA-6 | P1301687-011 | Air | 4/18/2013 | 16:15 | AC01049 | -3.07 | 3.66 | X | |

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No. **P301687**

Project Name: **Leica**
 Project Number: **137015**
 P.O. # / Billing Information: _____

CAS Contact: **K. Aguilera**
 Analysis Method: _____

Comments
 e.g. Actual
 Preservative or
 specific instructions

| Client Sample ID | Laboratory ID Number | Date Collected | Time Collected | Canister ID (Bar code # - AC, SC, etc.) | Flow Controller ID (Bar code # - FC #) | Canister Start Pressure "Hg | Canister End Pressure "Hg/psig | Sample Volume | CAS Project No. | Comments |
|------------------|----------------------|----------------|----------------|---|--|-----------------------------|--------------------------------|---------------|-----------------|--------------|
| | | | | | | | | | | |
| AA - 8hr - 049 | ①-3.11 | 4/17/13 | 0900 | AC01082 | FC00012 | 26.5 | 13.5 | 6L | X | |
| AA - 8hr - 050 | ②-4.56 | 4/17/13 | 0900 | AS00127 | FC00052 | 27.5 | 6.0 | 6L | X | |
| AA - 8hr - 048 | ③-2.44 | 4/17/13 | 0910 | AC01617 | FC00113 | 28.0 | 6.0 | 6L | X | |
| AA - 8hr - 047 | ④-2.32 | 4/17/13 | 0915 | AC01110 | FCA00342 | 30.0 | 5.5 | 6L | X | |
| AA - 8hr - 046 | ⑤-4.97 | 4/17/13 | 0910 | AC01163 | FCA00094 | 28.0 | 10.0 | 6L | X | |
| SB-1 | ⑥-5.63 | 4/18/13 | 0815 | AC01131 | FCA00076 | 26.5 | 9.5 | 6L | X | |
| IA-1 | ⑦-2.35 | 4/18/13 | 0815 | AC01013 | FCA00445 | 29.0 | 4.0 | 6L | X | |
| SB-2 | ⑧-1.58 | 4/18/13 | 0825 | AC01482 | FCA00608 | 30.5 | 20.0 | 6L | X | END pressure |
| IA-2 | ⑨-3.63 | 4/18/13 | 0825 | AC01284 | FCA00264 | 29.75 | 7.0 | 6L | X | |
| SB-6 | ⑩-3.49 | 4/18/13 | 0820 | AC01580 | FCA00386 | 29.0 | 5.5 | 6L | X | |
| IA-6 | ⑪-3.11 | 4/18/13 | 0820 | AC01049 | FCA00021 | 29.0 | 7.0 | 6L | X | |

Report Tier Levels - please select
 Tier I - Results (Default if not specified) _____
 Tier II (Results + QC Summaries) _____
 Tier III (Results + QC & Calibration Summaries) _____
 Tier IV (Data Validation Package) 10% Surcharge _____

EDD required **YES** / No
 Type: **NY DEC**

Relinquished by: (Signature) **[Signature]** Date: **4/18/13** Time: **1200**
 Relinquished by: (Signature) **[Signature]** Date: **4/18/13** Time: **1020**

Project Requirements (MRLs, QAPP)
 Cooler / Blank Temperature _____ °C

Sample Acceptance Check Form

Client: Energy Solutions, Inc. Work order: P1301687
 Project: Leica / 137015
 Sample(s) received on: 4/23/13 Date opened: 4/23/13 by: RMARTENIES

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by ALS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|-----------------|-----------------------|---------------|-------------|-------------|----------------------------------|---------------------------------|
| P1301687-001.01 | 6.0 L Ambient Can | | | | | |
| P1301687-002.01 | 6.0 L Silonite Can | | | | | |
| P1301687-003.01 | 6.0 L Ambient Can | | | | | |
| P1301687-004.01 | 6.0 L Ambient Can | | | | | |
| P1301687-005.01 | 6.0 L Ambient Can | | | | | |
| P1301687-006.01 | 6.0 L Ambient Can | | | | | |
| P1301687-007.01 | 6.0 L Ambient Can | | | | | |
| P1301687-008.01 | 6.0 L Ambient Can | | | | | |

Explain any discrepancies: (include lab sample ID numbers): _____

RESULTS OF ANALYSIS

Page 1 of 1

Client: Energy Solutions, Inc.
Client Project ID: Leica / 137015

CAS Project ID: P1301687

Helium

Test Code: EPA 3C Modified
 Instrument ID: HP5890 II/GC8/TCD
 Analyst: Jennifer Young
 Sample Type: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 4/18/13
 Date Received: 4/23/13
 Date Analyzed: 4/27/13

| Client Sample ID | CAS Sample ID | Injection Volume ml(s) | Canister Dilution Factor | Result ppmV | MRL ppmV | Data Qualifier |
|------------------|---------------|------------------------|--------------------------|--------------|----------|----------------|
| SB-1 | P1301687-006 | 1.00 | 2.01 | 3,600 | 50 | |
| SB-2 | P1301687-008 | 1.00 | 3.51 | 4,900 | 88 | |
| SB-6 | P1301687-010 | 1.00 | 1.63 | 6,400 | 41 | |
| Method Blank | P130427-MB | 1.00 | 1.00 | ND | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130427-LCS

Test Code: EPA 3C Modified
Instrument ID: HP5890 II/GC8/TCD
Analyst: Jennifer Young
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/27/13
Volume(s) Analyzed: NA ml(s)

| CAS # | Compound | Spike Amount ppmV | Result ppmV | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-----------|----------|----------------------|----------------|------------|-----------------------------|-------------------|
| 7440-59-7 | Helium | 10,000 | 11,200 | 112 | 70-127 | |

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 1

Client: Energy Solutions, Inc.

Client Sample ID: SB-6

Client Project ID: Leica / 137015

CAS Project ID: P1301687

CAS Sample ID: P1301687-010DUP

Test Code: EPA 3C Modified

Instrument ID: HP5890 II/GC8/TCD

Analyst: Jennifer Young

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01580

Date Collected: 4/18/13

Date Received: 4/23/13

Date Analyzed: 4/27/13

Volume(s) Analyzed: 1.00 ml(s)

Initial Pressure (psig): -3.52

Final Pressure (psig): 3.55

Canister Dilution Factor: 1.63

| CAS # | Compound | Sample Result ppmV | Duplicate Sample Result ppmV | Average | % RPD | RPD Limit | Data Qualifier |
|-----------|----------|-----------------------|------------------------------------|---------|----------|--------------|-------------------|
| 7440-59-7 | Helium | 6,440 | 6,360 | 6400 | 1 | 23 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-049
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01082

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/29/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.06 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.58

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 27 | 0.79 | 15 | 0.46 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.79 | 0.43 | 0.16 | |
| 74-87-3 | Chloromethane | ND | 0.79 | ND | 0.38 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.79 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.79 | ND | 0.31 | |
| 106-99-0 | 1,3-Butadiene | 1.0 | 0.79 | 0.46 | 0.36 | |
| 74-83-9 | Bromomethane | ND | 0.79 | ND | 0.20 | |
| 75-00-3 | Chloroethane | ND | 0.79 | ND | 0.30 | |
| 64-17-5 | Ethanol | 8.5 | 7.9 | 4.5 | 4.2 | |
| 75-05-8 | Acetonitrile | ND | 0.79 | ND | 0.47 | |
| 107-02-8 | Acrolein | ND | 3.2 | ND | 1.4 | |
| 67-64-1 | Acetone | 15 | 7.9 | 6.2 | 3.3 | |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.79 | 0.22 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.9 | ND | 3.2 | |
| 107-13-1 | Acrylonitrile | ND | 0.79 | ND | 0.36 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 75-09-2 | Methylene Chloride | 0.85 | 0.79 | 0.25 | 0.23 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.79 | ND | 0.25 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.79 | ND | 0.10 | |
| 75-15-0 | Carbon Disulfide | ND | 7.9 | ND | 2.5 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.79 | ND | 0.20 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.79 | ND | 0.22 | |
| 108-05-4 | Vinyl Acetate | ND | 7.9 | ND | 2.2 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 7.9 | ND | 2.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-049
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01082

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/29/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.06 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.58

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 141-78-6 | Ethyl Acetate | ND | 1.6 | ND | 0.44 | |
| 110-54-3 | n-Hexane | ND | 0.79 | ND | 0.22 | |
| 67-66-3 | Chloroform | ND | 0.79 | ND | 0.16 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.79 | ND | 0.27 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.79 | ND | 0.20 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.79 | ND | 0.14 | |
| 71-43-2 | Benzene | 0.89 | 0.79 | 0.28 | 0.25 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.79 | ND | 0.13 | |
| 110-82-7 | Cyclohexane | ND | 1.6 | ND | 0.46 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.79 | ND | 0.17 | |
| 75-27-4 | Bromodichloromethane | ND | 0.79 | ND | 0.12 | |
| 79-01-6 | Trichloroethene | 1.7 | 0.79 | 0.31 | 0.15 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.79 | ND | 0.22 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.6 | ND | 0.39 | |
| 142-82-5 | n-Heptane | ND | 0.79 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.79 | ND | 0.17 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.79 | ND | 0.19 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.79 | ND | 0.17 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.79 | ND | 0.14 | |
| 108-88-3 | Toluene | 5.8 | 0.79 | 1.5 | 0.21 | |
| 591-78-6 | 2-Hexanone | ND | 0.79 | ND | 0.19 | |
| 124-48-1 | Dibromochloromethane | ND | 0.79 | ND | 0.093 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.79 | ND | 0.10 | |
| 123-86-4 | n-Butyl Acetate | 0.85 | 0.79 | 0.18 | 0.17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-049
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01082

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/29/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.06 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.58

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.79 | ND | 0.17 | |
| 127-18-4 | Tetrachloroethene | ND | 0.79 | ND | 0.12 | |
| 108-90-7 | Chlorobenzene | ND | 0.79 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | ND | 0.79 | ND | 0.18 | |
| 179601-23-1 | m,p-Xylenes | 1.8 | 1.6 | 0.42 | 0.36 | |
| 75-25-2 | Bromoform | ND | 0.79 | ND | 0.076 | |
| 100-42-5 | Styrene | 1.5 | 0.79 | 0.34 | 0.19 | |
| 95-47-6 | o-Xylene | ND | 0.79 | ND | 0.18 | |
| 111-84-2 | n-Nonane | ND | 0.79 | ND | 0.15 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.79 | ND | 0.12 | |
| 98-82-8 | Cumene | ND | 0.79 | ND | 0.16 | |
| 80-56-8 | alpha-Pinene | 4.2 | 0.79 | 0.76 | 0.14 | |
| 103-65-1 | n-Propylbenzene | ND | 0.79 | ND | 0.16 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.79 | ND | 0.16 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.79 | ND | 0.16 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.79 | ND | 0.16 | |
| 100-44-7 | Benzyl Chloride | ND | 0.79 | ND | 0.15 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | 1.1 | 0.79 | 0.20 | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.79 | ND | 0.082 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.79 | ND | 0.11 | |
| 91-20-3 | Naphthalene | ND | 0.79 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.79 | ND | 0.074 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-050
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AS00127

Date Collected: 4/17/13
 Date Received: 4/23/13
 Date Analyzed: 4/29/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.61 Final Pressure (psig): 3.81

Canister Dilution Factor: 1.21

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 16 | 0.61 | 9.2 | 0.35 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.61 | 0.44 | 0.12 | |
| 74-87-3 | Chloromethane | 0.67 | 0.61 | 0.32 | 0.29 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.61 | ND | 0.087 | |
| 75-01-4 | Vinyl Chloride | ND | 0.61 | ND | 0.24 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.61 | ND | 0.27 | |
| 74-83-9 | Bromomethane | ND | 0.61 | ND | 0.16 | |
| 75-00-3 | Chloroethane | ND | 0.61 | ND | 0.23 | |
| 64-17-5 | Ethanol | 6.6 | 6.1 | 3.5 | 3.2 | |
| 75-05-8 | Acetonitrile | ND | 0.61 | ND | 0.36 | |
| 107-02-8 | Acrolein | ND | 2.4 | ND | 1.1 | |
| 67-64-1 | Acetone | ND | 6.1 | ND | 2.5 | |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.61 | 0.22 | 0.11 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 6.1 | ND | 2.5 | |
| 107-13-1 | Acrylonitrile | ND | 0.61 | ND | 0.28 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.61 | ND | 0.15 | |
| 75-09-2 | Methylene Chloride | ND | 0.61 | ND | 0.17 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.61 | ND | 0.19 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.61 | ND | 0.079 | |
| 75-15-0 | Carbon Disulfide | ND | 6.1 | ND | 1.9 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.61 | ND | 0.15 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.61 | ND | 0.15 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.61 | ND | 0.17 | |
| 108-05-4 | Vinyl Acetate | ND | 6.1 | ND | 1.7 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 6.1 | ND | 2.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-050
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AS00127

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/29/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.61 Final Pressure (psig): 3.81

Canister Dilution Factor: 1.21

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.61 | ND | 0.15 | |
| 141-78-6 | Ethyl Acetate | ND | 1.2 | ND | 0.34 | |
| 110-54-3 | n-Hexane | 1.2 | 0.61 | 0.34 | 0.17 | |
| 67-66-3 | Chloroform | ND | 0.61 | ND | 0.12 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.61 | ND | 0.21 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.61 | ND | 0.15 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.61 | ND | 0.11 | |
| 71-43-2 | Benzene | 0.93 | 0.61 | 0.29 | 0.19 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.61 | ND | 0.096 | |
| 110-82-7 | Cyclohexane | ND | 1.2 | ND | 0.35 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.61 | ND | 0.13 | |
| 75-27-4 | Bromodichloromethane | ND | 0.61 | ND | 0.090 | |
| 79-01-6 | Trichloroethene | 0.76 | 0.61 | 0.14 | 0.11 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.61 | ND | 0.17 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.2 | ND | 0.30 | |
| 142-82-5 | n-Heptane | ND | 0.61 | ND | 0.15 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.61 | ND | 0.13 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.61 | ND | 0.15 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.61 | ND | 0.13 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.61 | ND | 0.11 | |
| 108-88-3 | Toluene | 6.4 | 0.61 | 1.7 | 0.16 | |
| 591-78-6 | 2-Hexanone | ND | 0.61 | ND | 0.15 | |
| 124-48-1 | Dibromochloromethane | ND | 0.61 | ND | 0.071 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.61 | ND | 0.079 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.61 | ND | 0.13 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-050
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AS00127

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/29/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.61 Final Pressure (psig): 3.81

Canister Dilution Factor: 1.21

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.61 | ND | 0.13 | |
| 127-18-4 | Tetrachloroethene | ND | 0.61 | ND | 0.089 | |
| 108-90-7 | Chlorobenzene | ND | 0.61 | ND | 0.13 | |
| 100-41-4 | Ethylbenzene | 0.70 | 0.61 | 0.16 | 0.14 | |
| 179601-23-1 | m,p-Xylenes | 2.2 | 1.2 | 0.51 | 0.28 | |
| 75-25-2 | Bromoform | ND | 0.61 | ND | 0.059 | |
| 100-42-5 | Styrene | ND | 0.61 | ND | 0.14 | |
| 95-47-6 | o-Xylene | 0.74 | 0.61 | 0.17 | 0.14 | |
| 111-84-2 | n-Nonane | ND | 0.61 | ND | 0.12 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.61 | ND | 0.088 | |
| 98-82-8 | Cumene | ND | 0.61 | ND | 0.12 | |
| 80-56-8 | alpha-Pinene | 1.6 | 0.61 | 0.28 | 0.11 | |
| 103-65-1 | n-Propylbenzene | ND | 0.61 | ND | 0.12 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.61 | ND | 0.12 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.61 | ND | 0.12 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.78 | 0.61 | 0.16 | 0.12 | |
| 100-44-7 | Benzyl Chloride | ND | 0.61 | ND | 0.12 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.61 | ND | 0.10 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.61 | ND | 0.10 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.61 | ND | 0.10 | |
| 5989-27-5 | d-Limonene | 1.2 | 0.61 | 0.21 | 0.11 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.61 | ND | 0.063 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.61 | ND | 0.082 | |
| 91-20-3 | Naphthalene | ND | 0.61 | ND | 0.12 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.61 | ND | 0.057 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-048
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01617

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.49

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 33 | 0.75 | 19 | 0.43 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.0 | 0.75 | 0.41 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.75 | ND | 0.36 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.75 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.75 | ND | 0.29 | |
| 106-99-0 | 1,3-Butadiene | 1.1 | 0.75 | 0.49 | 0.34 | |
| 74-83-9 | Bromomethane | ND | 0.75 | ND | 0.19 | |
| 75-00-3 | Chloroethane | ND | 0.75 | ND | 0.28 | |
| 64-17-5 | Ethanol | ND | 7.5 | ND | 4.0 | |
| 75-05-8 | Acetonitrile | ND | 0.75 | ND | 0.44 | |
| 107-02-8 | Acrolein | ND | 3.0 | ND | 1.3 | |
| 67-64-1 | Acetone | 12 | 7.5 | 5.1 | 3.1 | |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.75 | 0.21 | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.5 | ND | 3.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.75 | ND | 0.34 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.75 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | 1.7 | 0.75 | 0.49 | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.75 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.75 | ND | 0.097 | |
| 75-15-0 | Carbon Disulfide | ND | 7.5 | ND | 2.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.75 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.75 | ND | 0.18 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.75 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.5 | ND | 2.1 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 7.5 | ND | 2.5 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-048
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01617

Date Collected: 4/17/13
 Date Received: 4/23/13
 Date Analyzed: 4/30/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.49

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.75 | ND | 0.19 | |
| 141-78-6 | Ethyl Acetate | 2.2 | 1.5 | 0.62 | 0.41 | |
| 110-54-3 | n-Hexane | ND | 0.75 | ND | 0.21 | |
| 67-66-3 | Chloroform | ND | 0.75 | ND | 0.15 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.75 | ND | 0.25 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.75 | ND | 0.18 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.75 | ND | 0.14 | |
| 71-43-2 | Benzene | 0.99 | 0.75 | 0.31 | 0.23 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.75 | ND | 0.12 | |
| 110-82-7 | Cyclohexane | ND | 1.5 | ND | 0.43 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.75 | ND | 0.16 | |
| 75-27-4 | Bromodichloromethane | ND | 0.75 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 3.4 | 0.75 | 0.63 | 0.14 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.75 | ND | 0.21 | |
| 80-62-6 | Methyl Methacrylate | 1.9 | 1.5 | 0.45 | 0.36 | |
| 142-82-5 | n-Heptane | ND | 0.75 | ND | 0.18 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.75 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.75 | ND | 0.18 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.75 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.75 | ND | 0.14 | |
| 108-88-3 | Toluene | 9.2 | 0.75 | 2.4 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.75 | ND | 0.18 | |
| 124-48-1 | Dibromochloromethane | ND | 0.75 | ND | 0.087 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.75 | ND | 0.097 | |
| 123-86-4 | n-Butyl Acetate | 1.2 | 0.75 | 0.26 | 0.16 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-048
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01617

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.49

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.75 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | ND | 0.75 | ND | 0.11 | |
| 108-90-7 | Chlorobenzene | ND | 0.75 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | 2.2 | 0.75 | 0.51 | 0.17 | |
| 179601-23-1 | m,p-Xylenes | 5.2 | 1.5 | 1.2 | 0.34 | |
| 75-25-2 | Bromoform | ND | 0.75 | ND | 0.072 | |
| 100-42-5 | Styrene | 5.3 | 0.75 | 1.2 | 0.18 | |
| 95-47-6 | o-Xylene | 1.7 | 0.75 | 0.38 | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.75 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.75 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.75 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | 3.0 | 0.75 | 0.54 | 0.13 | |
| 103-65-1 | n-Propylbenzene | ND | 0.75 | ND | 0.15 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.75 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.75 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.75 | 0.75 | 0.15 | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 0.75 | ND | 0.14 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.75 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.75 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.75 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.75 | ND | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.75 | ND | 0.077 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.75 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.75 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.75 | ND | 0.070 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-047
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01110

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/29/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.47

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 38 | 0.74 | 22 | 0.43 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.74 | 0.44 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.74 | ND | 0.36 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.74 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.74 | ND | 0.29 | |
| 106-99-0 | 1,3-Butadiene | 1.1 | 0.74 | 0.50 | 0.33 | |
| 74-83-9 | Bromomethane | ND | 0.74 | ND | 0.19 | |
| 75-00-3 | Chloroethane | ND | 0.74 | ND | 0.28 | |
| 64-17-5 | Ethanol | ND | 7.4 | ND | 3.9 | |
| 75-05-8 | Acetonitrile | ND | 0.74 | ND | 0.44 | |
| 107-02-8 | Acrolein | ND | 2.9 | ND | 1.3 | |
| 67-64-1 | Acetone | 13 | 7.4 | 5.6 | 3.1 | |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.74 | 0.22 | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.4 | ND | 3.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.74 | ND | 0.34 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | 2.6 | 0.74 | 0.76 | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.74 | ND | 0.23 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.74 | ND | 0.096 | |
| 75-15-0 | Carbon Disulfide | ND | 7.4 | ND | 2.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.74 | ND | 0.20 | |
| 108-05-4 | Vinyl Acetate | ND | 7.4 | ND | 2.1 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 7.4 | ND | 2.5 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-047
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01110

Date Collected: 4/17/13
 Date Received: 4/23/13
 Date Analyzed: 4/29/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.47

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 141-78-6 | Ethyl Acetate | 2.8 | 1.5 | 0.77 | 0.41 | |
| 110-54-3 | n-Hexane | ND | 0.74 | ND | 0.21 | |
| 67-66-3 | Chloroform | ND | 0.74 | ND | 0.15 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.74 | ND | 0.25 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.74 | ND | 0.13 | |
| 71-43-2 | Benzene | 1.1 | 0.74 | 0.36 | 0.23 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.74 | ND | 0.12 | |
| 110-82-7 | Cyclohexane | ND | 1.5 | ND | 0.43 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.74 | ND | 0.16 | |
| 75-27-4 | Bromodichloromethane | ND | 0.74 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 4.3 | 0.74 | 0.80 | 0.14 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.74 | ND | 0.20 | |
| 80-62-6 | Methyl Methacrylate | 2.5 | 1.5 | 0.61 | 0.36 | |
| 142-82-5 | n-Heptane | ND | 0.74 | ND | 0.18 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.74 | ND | 0.18 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.74 | ND | 0.13 | |
| 108-88-3 | Toluene | 13 | 0.74 | 3.4 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.74 | ND | 0.18 | |
| 124-48-1 | Dibromochloromethane | ND | 0.74 | ND | 0.086 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.74 | ND | 0.096 | |
| 123-86-4 | n-Butyl Acetate | 1.5 | 0.74 | 0.32 | 0.15 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-047
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01110

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/29/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.47

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.74 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | ND | 0.74 | ND | 0.11 | |
| 108-90-7 | Chlorobenzene | ND | 0.74 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | 3.1 | 0.74 | 0.71 | 0.17 | |
| 179601-23-1 | m,p-Xylenes | 6.8 | 1.5 | 1.6 | 0.34 | |
| 75-25-2 | Bromoform | ND | 0.74 | ND | 0.071 | |
| 100-42-5 | Styrene | 7.7 | 0.74 | 1.8 | 0.17 | |
| 95-47-6 | o-Xylene | 2.2 | 0.74 | 0.50 | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.74 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.74 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.74 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | 3.7 | 0.74 | 0.67 | 0.13 | |
| 103-65-1 | n-Propylbenzene | ND | 0.74 | ND | 0.15 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.74 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.74 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | 0.74 | 0.22 | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 0.74 | ND | 0.14 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | 0.86 | 0.74 | 0.15 | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.74 | ND | 0.076 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.74 | ND | 0.099 | |
| 91-20-3 | Naphthalene | ND | 0.74 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.74 | ND | 0.069 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-046
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01163

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.92 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.88

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 31 | 0.94 | 18 | 0.55 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.94 | 0.44 | 0.19 | |
| 74-87-3 | Chloromethane | ND | 0.94 | ND | 0.46 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.94 | ND | 0.13 | |
| 75-01-4 | Vinyl Chloride | ND | 0.94 | ND | 0.37 | |
| 106-99-0 | 1,3-Butadiene | 1.3 | 0.94 | 0.60 | 0.43 | |
| 74-83-9 | Bromomethane | ND | 0.94 | ND | 0.24 | |
| 75-00-3 | Chloroethane | ND | 0.94 | ND | 0.36 | |
| 64-17-5 | Ethanol | 28 | 9.4 | 15 | 5.0 | |
| 75-05-8 | Acetonitrile | ND | 0.94 | ND | 0.56 | |
| 107-02-8 | Acrolein | ND | 3.8 | ND | 1.6 | |
| 67-64-1 | Acetone | ND | 9.4 | ND | 4.0 | |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.94 | 0.21 | 0.17 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 9.4 | ND | 3.8 | |
| 107-13-1 | Acrylonitrile | ND | 0.94 | ND | 0.43 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.94 | ND | 0.24 | |
| 75-09-2 | Methylene Chloride | 1.7 | 0.94 | 0.49 | 0.27 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.94 | ND | 0.30 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.94 | ND | 0.12 | |
| 75-15-0 | Carbon Disulfide | ND | 9.4 | ND | 3.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.94 | ND | 0.24 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.94 | ND | 0.23 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.94 | ND | 0.26 | |
| 108-05-4 | Vinyl Acetate | ND | 9.4 | ND | 2.7 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.4 | ND | 3.2 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-046
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01163

Date Collected: 4/17/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.92 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.88

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.94 | ND | 0.24 | |
| 141-78-6 | Ethyl Acetate | 5.8 | 1.9 | 1.6 | 0.52 | |
| 110-54-3 | n-Hexane | ND | 0.94 | ND | 0.27 | |
| 67-66-3 | Chloroform | ND | 0.94 | ND | 0.19 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.94 | ND | 0.32 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.94 | ND | 0.23 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.94 | ND | 0.17 | |
| 71-43-2 | Benzene | 0.99 | 0.94 | 0.31 | 0.29 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.94 | ND | 0.15 | |
| 110-82-7 | Cyclohexane | ND | 1.9 | ND | 0.55 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.94 | ND | 0.20 | |
| 75-27-4 | Bromodichloromethane | ND | 0.94 | ND | 0.14 | |
| 79-01-6 | Trichloroethene | 3.1 | 0.94 | 0.58 | 0.17 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.94 | ND | 0.26 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.9 | ND | 0.46 | |
| 142-82-5 | n-Heptane | ND | 0.94 | ND | 0.23 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.94 | ND | 0.21 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.94 | ND | 0.23 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.94 | ND | 0.21 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.94 | ND | 0.17 | |
| 108-88-3 | Toluene | 11 | 0.94 | 3.0 | 0.25 | |
| 591-78-6 | 2-Hexanone | ND | 0.94 | ND | 0.23 | |
| 124-48-1 | Dibromochloromethane | ND | 0.94 | ND | 0.11 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.94 | ND | 0.12 | |
| 123-86-4 | n-Butyl Acetate | 1.0 | 0.94 | 0.21 | 0.20 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: AA-8hr-046
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01163

Date Collected: 4/17/13
 Date Received: 4/23/13
 Date Analyzed: 4/30/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.92 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.88

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.94 | ND | 0.20 | |
| 127-18-4 | Tetrachloroethene | ND | 0.94 | ND | 0.14 | |
| 108-90-7 | Chlorobenzene | ND | 0.94 | ND | 0.20 | |
| 100-41-4 | Ethylbenzene | 2.7 | 0.94 | 0.61 | 0.22 | |
| 179601-23-1 | m,p-Xylenes | 6.3 | 1.9 | 1.5 | 0.43 | |
| 75-25-2 | Bromoform | ND | 0.94 | ND | 0.091 | |
| 100-42-5 | Styrene | 6.4 | 0.94 | 1.5 | 0.22 | |
| 95-47-6 | o-Xylene | 2.0 | 0.94 | 0.46 | 0.22 | |
| 111-84-2 | n-Nonane | ND | 0.94 | ND | 0.18 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.94 | ND | 0.14 | |
| 98-82-8 | Cumene | ND | 0.94 | ND | 0.19 | |
| 80-56-8 | alpha-Pinene | 2.9 | 0.94 | 0.52 | 0.17 | |
| 103-65-1 | n-Propylbenzene | ND | 0.94 | ND | 0.19 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.94 | ND | 0.19 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.94 | ND | 0.19 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.94 | ND | 0.19 | |
| 100-44-7 | Benzyl Chloride | ND | 0.94 | ND | 0.18 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.94 | ND | 0.16 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.94 | ND | 0.16 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.94 | ND | 0.16 | |
| 5989-27-5 | d-Limonene | ND | 0.94 | ND | 0.17 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.94 | ND | 0.097 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.94 | ND | 0.13 | |
| 91-20-3 | Naphthalene | ND | 0.94 | ND | 0.18 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.94 | ND | 0.088 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-1
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01131

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 0.060 Liter(s)

Initial Pressure (psig): -5.68 Final Pressure (psig): 3.44

Canister Dilution Factor: 2.01

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 17 | ND | 9.7 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 17 | ND | 3.4 | |
| 74-87-3 | Chloromethane | ND | 17 | ND | 8.1 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 17 | ND | 2.4 | |
| 75-01-4 | Vinyl Chloride | ND | 17 | ND | 6.6 | |
| 106-99-0 | 1,3-Butadiene | ND | 17 | ND | 7.6 | |
| 74-83-9 | Bromomethane | ND | 17 | ND | 4.3 | |
| 75-00-3 | Chloroethane | ND | 17 | ND | 6.4 | |
| 64-17-5 | Ethanol | ND | 170 | ND | 89 | |
| 75-05-8 | Acetonitrile | ND | 17 | ND | 10 | |
| 107-02-8 | Acrolein | ND | 67 | ND | 29 | |
| 67-64-1 | Acetone | ND | 170 | ND | 71 | |
| 75-69-4 | Trichlorofluoromethane | ND | 17 | ND | 3.0 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 170 | ND | 68 | |
| 107-13-1 | Acrylonitrile | ND | 17 | ND | 7.7 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 17 | ND | 4.2 | |
| 75-09-2 | Methylene Chloride | ND | 17 | ND | 4.8 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 17 | ND | 5.4 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 17 | ND | 2.2 | |
| 75-15-0 | Carbon Disulfide | ND | 170 | ND | 54 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 17 | ND | 4.2 | |
| 75-34-3 | 1,1-Dichloroethane | 73 | 17 | 18 | 4.1 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 17 | ND | 4.6 | |
| 108-05-4 | Vinyl Acetate | ND | 170 | ND | 48 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 170 | ND | 57 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-1
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01131

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 0.060 Liter(s)

Initial Pressure (psig): -5.68 Final Pressure (psig): 3.44

Canister Dilution Factor: 2.01

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | 25 | 17 | 6.3 | 4.2 | |
| 141-78-6 | Ethyl Acetate | ND | 34 | ND | 9.3 | |
| 110-54-3 | n-Hexane | ND | 17 | ND | 4.8 | |
| 67-66-3 | Chloroform | ND | 17 | ND | 3.4 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 17 | ND | 5.7 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 17 | ND | 4.1 | |
| 71-55-6 | 1,1,1-Trichloroethane | 430 | 17 | 80 | 3.1 | |
| 71-43-2 | Benzene | ND | 17 | ND | 5.2 | |
| 56-23-5 | Carbon Tetrachloride | ND | 17 | ND | 2.7 | |
| 110-82-7 | Cyclohexane | ND | 34 | ND | 9.7 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 17 | ND | 3.6 | |
| 75-27-4 | Bromodichloromethane | ND | 17 | ND | 2.5 | |
| 79-01-6 | Trichloroethene | 2,700 | 17 | 500 | 3.1 | |
| 123-91-1 | 1,4-Dioxane | 150 | 17 | 41 | 4.6 | |
| 80-62-6 | Methyl Methacrylate | ND | 34 | ND | 8.2 | |
| 142-82-5 | n-Heptane | ND | 17 | ND | 4.1 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 17 | ND | 3.7 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 17 | ND | 4.1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 17 | ND | 3.7 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 17 | ND | 3.1 | |
| 108-88-3 | Toluene | ND | 17 | ND | 4.4 | |
| 591-78-6 | 2-Hexanone | ND | 17 | ND | 4.1 | |
| 124-48-1 | Dibromochloromethane | ND | 17 | ND | 2.0 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 17 | ND | 2.2 | |
| 123-86-4 | n-Butyl Acetate | ND | 17 | ND | 3.5 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-1
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01131

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 0.060 Liter(s)

Initial Pressure (psig): -5.68 Final Pressure (psig): 3.44

Canister Dilution Factor: 2.01

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 17 | ND | 3.6 | |
| 127-18-4 | Tetrachloroethene | ND | 17 | ND | 2.5 | |
| 108-90-7 | Chlorobenzene | ND | 17 | ND | 3.6 | |
| 100-41-4 | Ethylbenzene | ND | 17 | ND | 3.9 | |
| 179601-23-1 | m,p-Xylenes | ND | 34 | ND | 7.7 | |
| 75-25-2 | Bromoform | ND | 17 | ND | 1.6 | |
| 100-42-5 | Styrene | ND | 17 | ND | 3.9 | |
| 95-47-6 | o-Xylene | ND | 17 | ND | 3.9 | |
| 111-84-2 | n-Nonane | ND | 17 | ND | 3.2 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 17 | ND | 2.4 | |
| 98-82-8 | Cumene | ND | 17 | ND | 3.4 | |
| 80-56-8 | alpha-Pinene | ND | 17 | ND | 3.0 | |
| 103-65-1 | n-Propylbenzene | ND | 17 | ND | 3.4 | |
| 622-96-8 | 4-Ethyltoluene | ND | 17 | ND | 3.4 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 17 | ND | 3.4 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 17 | ND | 3.4 | |
| 100-44-7 | Benzyl Chloride | ND | 17 | ND | 3.2 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 17 | ND | 2.8 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 17 | ND | 2.8 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 17 | ND | 2.8 | |
| 5989-27-5 | d-Limonene | ND | 17 | ND | 3.0 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 17 | ND | 1.7 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 17 | ND | 2.3 | |
| 91-20-3 | Naphthalene | ND | 17 | ND | 3.2 | |
| 87-68-3 | Hexachlorobutadiene | ND | 17 | ND | 1.6 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-1
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01013

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.30 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.48

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 6.0 | 0.74 | 3.5 | 0.43 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.74 | 0.42 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.74 | ND | 0.36 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.74 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.74 | ND | 0.29 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.74 | ND | 0.33 | |
| 74-83-9 | Bromomethane | ND | 0.74 | ND | 0.19 | |
| 75-00-3 | Chloroethane | ND | 0.74 | ND | 0.28 | |
| 64-17-5 | Ethanol | ND | 7.4 | ND | 3.9 | |
| 75-05-8 | Acetonitrile | ND | 0.74 | ND | 0.44 | |
| 107-02-8 | Acrolein | ND | 3.0 | ND | 1.3 | |
| 67-64-1 | Acetone | 9.3 | 7.4 | 3.9 | 3.1 | |
| 75-69-4 | Trichlorofluoromethane | 1.1 | 0.74 | 0.19 | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.4 | ND | 3.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.74 | ND | 0.34 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | ND | 0.74 | ND | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.74 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.74 | ND | 0.097 | |
| 75-15-0 | Carbon Disulfide | ND | 7.4 | ND | 2.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.74 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.4 | ND | 2.1 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 7.4 | ND | 2.5 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-1
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01013

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.30 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.48

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 141-78-6 | Ethyl Acetate | ND | 1.5 | ND | 0.41 | |
| 110-54-3 | n-Hexane | ND | 0.74 | ND | 0.21 | |
| 67-66-3 | Chloroform | ND | 0.74 | ND | 0.15 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.74 | ND | 0.25 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.74 | ND | 0.14 | |
| 71-43-2 | Benzene | ND | 0.74 | ND | 0.23 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.74 | ND | 0.12 | |
| 110-82-7 | Cyclohexane | ND | 1.5 | ND | 0.43 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.74 | ND | 0.16 | |
| 75-27-4 | Bromodichloromethane | ND | 0.74 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 1.2 | 0.74 | 0.22 | 0.14 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.74 | ND | 0.21 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.5 | ND | 0.36 | |
| 142-82-5 | n-Heptane | ND | 0.74 | ND | 0.18 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.74 | ND | 0.18 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.74 | ND | 0.14 | |
| 108-88-3 | Toluene | 1.3 | 0.74 | 0.34 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.74 | ND | 0.18 | |
| 124-48-1 | Dibromochloromethane | ND | 0.74 | ND | 0.087 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.74 | ND | 0.096 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.74 | ND | 0.16 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-1
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01013

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.30 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.48

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.74 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | ND | 0.74 | ND | 0.11 | |
| 108-90-7 | Chlorobenzene | ND | 0.74 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | ND | 0.74 | ND | 0.17 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.34 | |
| 75-25-2 | Bromoform | ND | 0.74 | ND | 0.072 | |
| 100-42-5 | Styrene | ND | 0.74 | ND | 0.17 | |
| 95-47-6 | o-Xylene | ND | 0.74 | ND | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.74 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.74 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.74 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | 0.94 | 0.74 | 0.17 | 0.13 | |
| 103-65-1 | n-Propylbenzene | ND | 0.74 | ND | 0.15 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.74 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.74 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.74 | ND | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 0.74 | ND | 0.14 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | 1.8 | 0.74 | 0.32 | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.74 | ND | 0.077 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.74 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.74 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.74 | ND | 0.069 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-2
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01482

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 5/1/13
Volume(s) Analyzed: 0.15 Liter(s)

Initial Pressure (psig): -9.52 Final Pressure (psig): 3.49

Canister Dilution Factor: 3.51

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 12 | ND | 6.8 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 12 | ND | 2.4 | |
| 74-87-3 | Chloromethane | ND | 12 | ND | 5.7 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 12 | ND | 1.7 | |
| 75-01-4 | Vinyl Chloride | ND | 12 | ND | 4.6 | |
| 106-99-0 | 1,3-Butadiene | ND | 12 | ND | 5.3 | |
| 74-83-9 | Bromomethane | ND | 12 | ND | 3.0 | |
| 75-00-3 | Chloroethane | ND | 12 | ND | 4.4 | |
| 64-17-5 | Ethanol | 130 | 120 | 71 | 62 | |
| 75-05-8 | Acetonitrile | ND | 12 | ND | 7.0 | |
| 107-02-8 | Acrolein | ND | 47 | ND | 20 | |
| 67-64-1 | Acetone | 160 | 120 | 68 | 49 | |
| 75-69-4 | Trichlorofluoromethane | ND | 12 | ND | 2.1 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 120 | ND | 48 | |
| 107-13-1 | Acrylonitrile | ND | 12 | ND | 5.4 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 12 | ND | 3.0 | |
| 75-09-2 | Methylene Chloride | ND | 12 | ND | 3.4 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 12 | ND | 3.7 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 12 | ND | 1.5 | |
| 75-15-0 | Carbon Disulfide | ND | 120 | ND | 38 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 12 | ND | 3.0 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 12 | ND | 2.9 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 12 | ND | 3.2 | |
| 108-05-4 | Vinyl Acetate | ND | 120 | ND | 33 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 120 | ND | 40 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-2
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01482

Date Collected: 4/18/13
 Date Received: 4/23/13
 Date Analyzed: 5/1/13
 Volume(s) Analyzed: 0.15 Liter(s)

Initial Pressure (psig): -9.52 Final Pressure (psig): 3.49

Canister Dilution Factor: 3.51

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 12 | ND | 3.0 | |
| 141-78-6 | Ethyl Acetate | ND | 23 | ND | 6.5 | |
| 110-54-3 | n-Hexane | ND | 12 | ND | 3.3 | |
| 67-66-3 | Chloroform | ND | 12 | ND | 2.4 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 12 | ND | 4.0 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 12 | ND | 2.9 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 12 | ND | 2.1 | |
| 71-43-2 | Benzene | ND | 12 | ND | 3.7 | |
| 56-23-5 | Carbon Tetrachloride | ND | 12 | ND | 1.9 | |
| 110-82-7 | Cyclohexane | ND | 23 | ND | 6.8 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 12 | ND | 2.5 | |
| 75-27-4 | Bromodichloromethane | ND | 12 | ND | 1.7 | |
| 79-01-6 | Trichloroethene | ND | 12 | ND | 2.2 | |
| 123-91-1 | 1,4-Dioxane | ND | 12 | ND | 3.2 | |
| 80-62-6 | Methyl Methacrylate | ND | 23 | ND | 5.7 | |
| 142-82-5 | n-Heptane | ND | 12 | ND | 2.9 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 12 | ND | 2.6 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 12 | ND | 2.9 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 12 | ND | 2.6 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 12 | ND | 2.1 | |
| 108-88-3 | Toluene | 41 | 12 | 11 | 3.1 | |
| 591-78-6 | 2-Hexanone | ND | 12 | ND | 2.9 | |
| 124-48-1 | Dibromochloromethane | ND | 12 | ND | 1.4 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 12 | ND | 1.5 | |
| 123-86-4 | n-Butyl Acetate | ND | 12 | ND | 2.5 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-2
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01482

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 5/1/13
Volume(s) Analyzed: 0.15 Liter(s)

Initial Pressure (psig): -9.52 Final Pressure (psig): 3.49

Canister Dilution Factor: 3.51

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 12 | ND | 2.5 | |
| 127-18-4 | Tetrachloroethene | ND | 12 | ND | 1.7 | |
| 108-90-7 | Chlorobenzene | ND | 12 | ND | 2.5 | |
| 100-41-4 | Ethylbenzene | 17 | 12 | 4.0 | 2.7 | |
| 179601-23-1 | m,p-Xylenes | 26 | 23 | 5.9 | 5.4 | |
| 75-25-2 | Bromoform | ND | 12 | ND | 1.1 | |
| 100-42-5 | Styrene | ND | 12 | ND | 2.7 | |
| 95-47-6 | o-Xylene | ND | 12 | ND | 2.7 | |
| 111-84-2 | n-Nonane | ND | 12 | ND | 2.2 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 12 | ND | 1.7 | |
| 98-82-8 | Cumene | ND | 12 | ND | 2.4 | |
| 80-56-8 | alpha-Pinene | ND | 12 | ND | 2.1 | |
| 103-65-1 | n-Propylbenzene | ND | 12 | ND | 2.4 | |
| 622-96-8 | 4-Ethyltoluene | ND | 12 | ND | 2.4 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 12 | ND | 2.4 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 12 | ND | 2.4 | |
| 100-44-7 | Benzyl Chloride | ND | 12 | ND | 2.3 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 12 | ND | 1.9 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 12 | ND | 1.9 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 12 | ND | 1.9 | |
| 5989-27-5 | d-Limonene | 150 | 12 | 27 | 2.1 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 12 | ND | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 12 | ND | 1.6 | |
| 91-20-3 | Naphthalene | ND | 12 | ND | 2.2 | |
| 87-68-3 | Hexachlorobutadiene | ND | 12 | ND | 1.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-2
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01284

Date Collected: 4/18/13
 Date Received: 4/23/13
 Date Analyzed: 4/30/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.58 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.66

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 44 | 0.83 | 26 | 0.48 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.83 | 0.45 | 0.17 | |
| 74-87-3 | Chloromethane | ND | 0.83 | ND | 0.40 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.83 | ND | 0.12 | |
| 75-01-4 | Vinyl Chloride | ND | 0.83 | ND | 0.32 | |
| 106-99-0 | 1,3-Butadiene | 1.2 | 0.83 | 0.55 | 0.38 | |
| 74-83-9 | Bromomethane | ND | 0.83 | ND | 0.21 | |
| 75-00-3 | Chloroethane | ND | 0.83 | ND | 0.31 | |
| 64-17-5 | Ethanol | 32 | 8.3 | 17 | 4.4 | |
| 75-05-8 | Acetonitrile | ND | 0.83 | ND | 0.49 | |
| 107-02-8 | Acrolein | ND | 3.3 | ND | 1.4 | |
| 67-64-1 | Acetone | ND | 8.3 | ND | 3.5 | |
| 75-69-4 | Trichlorofluoromethane | 1.3 | 0.83 | 0.23 | 0.15 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 8.3 | ND | 3.4 | |
| 107-13-1 | Acrylonitrile | ND | 0.83 | ND | 0.38 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.83 | ND | 0.21 | |
| 75-09-2 | Methylene Chloride | 2.7 | 0.83 | 0.78 | 0.24 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.83 | ND | 0.27 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.83 | ND | 0.11 | |
| 75-15-0 | Carbon Disulfide | ND | 8.3 | ND | 2.7 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.83 | ND | 0.21 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.83 | ND | 0.21 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.83 | ND | 0.23 | |
| 108-05-4 | Vinyl Acetate | ND | 8.3 | ND | 2.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.3 | ND | 2.8 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-2
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01284

Date Collected: 4/18/13
 Date Received: 4/23/13
 Date Analyzed: 4/30/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.58 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.66

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.83 | ND | 0.21 | |
| 141-78-6 | Ethyl Acetate | 4.2 | 1.7 | 1.2 | 0.46 | |
| 110-54-3 | n-Hexane | 1.4 | 0.83 | 0.39 | 0.24 | |
| 67-66-3 | Chloroform | ND | 0.83 | ND | 0.17 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.83 | ND | 0.28 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.83 | ND | 0.21 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.83 | ND | 0.15 | |
| 71-43-2 | Benzene | 1.3 | 0.83 | 0.41 | 0.26 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.83 | ND | 0.13 | |
| 110-82-7 | Cyclohexane | ND | 1.7 | ND | 0.48 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.83 | ND | 0.18 | |
| 75-27-4 | Bromodichloromethane | ND | 0.83 | ND | 0.12 | |
| 79-01-6 | Trichloroethene | 7.1 | 0.83 | 1.3 | 0.15 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.83 | ND | 0.23 | |
| 80-62-6 | Methyl Methacrylate | 2.3 | 1.7 | 0.57 | 0.41 | |
| 142-82-5 | n-Heptane | ND | 0.83 | ND | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.83 | ND | 0.18 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.83 | ND | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.83 | ND | 0.18 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.83 | ND | 0.15 | |
| 108-88-3 | Toluene | 6.8 | 0.83 | 1.8 | 0.22 | |
| 591-78-6 | 2-Hexanone | ND | 0.83 | ND | 0.20 | |
| 124-48-1 | Dibromochloromethane | ND | 0.83 | ND | 0.097 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.83 | ND | 0.11 | |
| 123-86-4 | n-Butyl Acetate | 1.3 | 0.83 | 0.28 | 0.17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-2
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01284

Date Collected: 4/18/13
 Date Received: 4/23/13
 Date Analyzed: 4/30/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.58 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.66

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.83 | ND | 0.18 | |
| 127-18-4 | Tetrachloroethene | ND | 0.83 | ND | 0.12 | |
| 108-90-7 | Chlorobenzene | ND | 0.83 | ND | 0.18 | |
| 100-41-4 | Ethylbenzene | 2.0 | 0.83 | 0.46 | 0.19 | |
| 179601-23-1 | m,p-Xylenes | 4.4 | 1.7 | 1.0 | 0.38 | |
| 75-25-2 | Bromoform | ND | 0.83 | ND | 0.080 | |
| 100-42-5 | Styrene | 3.6 | 0.83 | 0.85 | 0.20 | |
| 95-47-6 | o-Xylene | 1.5 | 0.83 | 0.35 | 0.19 | |
| 111-84-2 | n-Nonane | ND | 0.83 | ND | 0.16 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.83 | ND | 0.12 | |
| 98-82-8 | Cumene | ND | 0.83 | ND | 0.17 | |
| 80-56-8 | alpha-Pinene | 8.2 | 0.83 | 1.5 | 0.15 | |
| 103-65-1 | n-Propylbenzene | ND | 0.83 | ND | 0.17 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.83 | ND | 0.17 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.83 | ND | 0.17 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | 0.83 | 0.21 | 0.17 | |
| 100-44-7 | Benzyl Chloride | ND | 0.83 | ND | 0.16 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.83 | ND | 0.14 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.83 | ND | 0.14 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.83 | ND | 0.14 | |
| 5989-27-5 | d-Limonene | 0.96 | 0.83 | 0.17 | 0.15 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.83 | ND | 0.086 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.83 | ND | 0.11 | |
| 91-20-3 | Naphthalene | ND | 0.83 | ND | 0.16 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.83 | ND | 0.078 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-6
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01580

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -3.52 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.63

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 4.5 | 0.82 | 2.6 | 0.47 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.82 | 0.44 | 0.16 | |
| 74-87-3 | Chloromethane | ND | 0.82 | ND | 0.39 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.82 | ND | 0.12 | |
| 75-01-4 | Vinyl Chloride | ND | 0.82 | ND | 0.32 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.82 | ND | 0.37 | |
| 74-83-9 | Bromomethane | ND | 0.82 | ND | 0.21 | |
| 75-00-3 | Chloroethane | 1.4 | 0.82 | 0.53 | 0.31 | |
| 64-17-5 | Ethanol | ND | 8.2 | ND | 4.3 | |
| 75-05-8 | Acetonitrile | ND | 0.82 | ND | 0.49 | |
| 107-02-8 | Acrolein | ND | 3.3 | ND | 1.4 | |
| 67-64-1 | Acetone | 11 | 8.2 | 4.5 | 3.4 | |
| 75-69-4 | Trichlorofluoromethane | 1.5 | 0.82 | 0.28 | 0.15 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 8.2 | ND | 3.3 | |
| 107-13-1 | Acrylonitrile | ND | 0.82 | ND | 0.38 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.82 | ND | 0.21 | |
| 75-09-2 | Methylene Chloride | ND | 0.82 | ND | 0.23 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.82 | ND | 0.26 | |
| 76-13-1 | Trichlorotrifluoroethane | 2.1 | 0.82 | 0.27 | 0.11 | |
| 75-15-0 | Carbon Disulfide | ND | 8.2 | ND | 2.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.82 | ND | 0.21 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.82 | ND | 0.20 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.82 | ND | 0.23 | |
| 108-05-4 | Vinyl Acetate | ND | 8.2 | ND | 2.3 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.2 | ND | 2.8 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-6
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01580

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.52 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.63

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.82 | ND | 0.21 | |
| 141-78-6 | Ethyl Acetate | ND | 1.6 | ND | 0.45 | |
| 110-54-3 | n-Hexane | ND | 0.82 | ND | 0.23 | |
| 67-66-3 | Chloroform | 14 | 0.82 | 2.9 | 0.17 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.82 | ND | 0.28 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.82 | ND | 0.20 | |
| 71-55-6 | 1,1,1-Trichloroethane | 34 | 0.82 | 6.3 | 0.15 | |
| 71-43-2 | Benzene | ND | 0.82 | ND | 0.26 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.82 | ND | 0.13 | |
| 110-82-7 | Cyclohexane | 1.6 | 1.6 | 0.48 | 0.47 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.82 | ND | 0.18 | |
| 75-27-4 | Bromodichloromethane | ND | 0.82 | ND | 0.12 | |
| 79-01-6 | Trichloroethene | 200 | 16 | 37 | 3.0 | D |
| 123-91-1 | 1,4-Dioxane | ND | 0.82 | ND | 0.23 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.6 | ND | 0.40 | |
| 142-82-5 | n-Heptane | ND | 0.82 | ND | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.82 | ND | 0.18 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.82 | ND | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.82 | ND | 0.18 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.82 | ND | 0.15 | |
| 108-88-3 | Toluene | 2.0 | 0.82 | 0.54 | 0.22 | |
| 591-78-6 | 2-Hexanone | ND | 0.82 | ND | 0.20 | |
| 124-48-1 | Dibromochloromethane | ND | 0.82 | ND | 0.096 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.82 | ND | 0.11 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.82 | ND | 0.17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-6
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01580

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.52 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.63

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.82 | ND | 0.17 | |
| 127-18-4 | Tetrachloroethene | 1.9 | 0.82 | 0.29 | 0.12 | |
| 108-90-7 | Chlorobenzene | ND | 0.82 | ND | 0.18 | |
| 100-41-4 | Ethylbenzene | ND | 0.82 | ND | 0.19 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.6 | ND | 0.38 | |
| 75-25-2 | Bromoform | ND | 0.82 | ND | 0.079 | |
| 100-42-5 | Styrene | ND | 0.82 | ND | 0.19 | |
| 95-47-6 | o-Xylene | ND | 0.82 | ND | 0.19 | |
| 111-84-2 | n-Nonane | ND | 0.82 | ND | 0.16 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.82 | ND | 0.12 | |
| 98-82-8 | Cumene | ND | 0.82 | ND | 0.17 | |
| 80-56-8 | alpha-Pinene | 18 | 0.82 | 3.3 | 0.15 | |
| 103-65-1 | n-Propylbenzene | ND | 0.82 | ND | 0.17 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.82 | ND | 0.17 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.82 | ND | 0.17 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.82 | ND | 0.17 | |
| 100-44-7 | Benzyl Chloride | ND | 0.82 | ND | 0.16 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.82 | ND | 0.14 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.82 | ND | 0.14 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.82 | ND | 0.14 | |
| 5989-27-5 | d-Limonene | ND | 0.82 | ND | 0.15 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.82 | ND | 0.084 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.82 | ND | 0.11 | |
| 91-20-3 | Naphthalene | ND | 0.82 | ND | 0.16 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.82 | ND | 0.076 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-6
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01049

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.07 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.58

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 37 | 0.79 | 22 | 0.46 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.79 | 0.44 | 0.16 | |
| 74-87-3 | Chloromethane | ND | 0.79 | ND | 0.38 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.79 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.79 | ND | 0.31 | |
| 106-99-0 | 1,3-Butadiene | 1.4 | 0.79 | 0.61 | 0.36 | |
| 74-83-9 | Bromomethane | ND | 0.79 | ND | 0.20 | |
| 75-00-3 | Chloroethane | ND | 0.79 | ND | 0.30 | |
| 64-17-5 | Ethanol | 22 | 7.9 | 12 | 4.2 | |
| 75-05-8 | Acetonitrile | ND | 0.79 | ND | 0.47 | |
| 107-02-8 | Acrolein | ND | 3.2 | ND | 1.4 | |
| 67-64-1 | Acetone | ND | 7.9 | ND | 3.3 | |
| 75-69-4 | Trichlorofluoromethane | 1.3 | 0.79 | 0.23 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.9 | ND | 3.2 | |
| 107-13-1 | Acrylonitrile | ND | 0.79 | ND | 0.36 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 75-09-2 | Methylene Chloride | 2.8 | 0.79 | 0.81 | 0.23 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.79 | ND | 0.25 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.79 | ND | 0.10 | |
| 75-15-0 | Carbon Disulfide | ND | 7.9 | ND | 2.5 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.79 | ND | 0.20 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.79 | ND | 0.22 | |
| 108-05-4 | Vinyl Acetate | ND | 7.9 | ND | 2.2 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 7.9 | ND | 2.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-6
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01049

Date Collected: 4/18/13
 Date Received: 4/23/13
 Date Analyzed: 4/30/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.07 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.58

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 141-78-6 | Ethyl Acetate | 5.1 | 1.6 | 1.4 | 0.44 | |
| 110-54-3 | n-Hexane | 1.5 | 0.79 | 0.42 | 0.22 | |
| 67-66-3 | Chloroform | ND | 0.79 | ND | 0.16 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.79 | ND | 0.27 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.79 | ND | 0.20 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.79 | ND | 0.14 | |
| 71-43-2 | Benzene | 1.3 | 0.79 | 0.41 | 0.25 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.79 | ND | 0.13 | |
| 110-82-7 | Cyclohexane | ND | 1.6 | ND | 0.46 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.79 | ND | 0.17 | |
| 75-27-4 | Bromodichloromethane | ND | 0.79 | ND | 0.12 | |
| 79-01-6 | Trichloroethene | 8.0 | 0.79 | 1.5 | 0.15 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.79 | ND | 0.22 | |
| 80-62-6 | Methyl Methacrylate | 2.4 | 1.6 | 0.59 | 0.39 | |
| 142-82-5 | n-Heptane | ND | 0.79 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.79 | ND | 0.17 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.79 | ND | 0.19 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.79 | ND | 0.17 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.79 | ND | 0.14 | |
| 108-88-3 | Toluene | 7.2 | 0.79 | 1.9 | 0.21 | |
| 591-78-6 | 2-Hexanone | ND | 0.79 | ND | 0.19 | |
| 124-48-1 | Dibromochloromethane | ND | 0.79 | ND | 0.093 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.79 | ND | 0.10 | |
| 123-86-4 | n-Butyl Acetate | 1.2 | 0.79 | 0.26 | 0.17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-6
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P1301687-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01049

Date Collected: 4/18/13
 Date Received: 4/23/13
 Date Analyzed: 4/30/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.07 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.58

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.79 | ND | 0.17 | |
| 127-18-4 | Tetrachloroethene | ND | 0.79 | ND | 0.12 | |
| 108-90-7 | Chlorobenzene | ND | 0.79 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | 2.1 | 0.79 | 0.49 | 0.18 | |
| 179601-23-1 | m,p-Xylenes | 4.7 | 1.6 | 1.1 | 0.36 | |
| 75-25-2 | Bromoform | ND | 0.79 | ND | 0.076 | |
| 100-42-5 | Styrene | 4.1 | 0.79 | 0.96 | 0.19 | |
| 95-47-6 | o-Xylene | 1.7 | 0.79 | 0.38 | 0.18 | |
| 111-84-2 | n-Nonane | 0.83 | 0.79 | 0.16 | 0.15 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.79 | ND | 0.12 | |
| 98-82-8 | Cumene | ND | 0.79 | ND | 0.16 | |
| 80-56-8 | alpha-Pinene | 9.5 | 0.79 | 1.7 | 0.14 | |
| 103-65-1 | n-Propylbenzene | ND | 0.79 | ND | 0.16 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.79 | ND | 0.16 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.79 | ND | 0.16 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | 0.79 | 0.23 | 0.16 | |
| 100-44-7 | Benzyl Chloride | ND | 0.79 | ND | 0.15 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | 1.2 | 0.79 | 0.21 | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.79 | ND | 0.082 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.79 | ND | 0.11 | |
| 91-20-3 | Naphthalene | ND | 0.79 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.79 | ND | 0.074 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.

Client Sample ID: Method Blank

Client Project ID: Leica / 137015

CAS Project ID: P1301687

CAS Sample ID: P130429-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: NA

Analyst: Elsa Moctezuma

Date Analyzed: 4/29/13

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.50 | ND | 0.29 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | ND | 0.10 | |
| 74-87-3 | Chloromethane | ND | 0.50 | ND | 0.24 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | ND | 0.072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.50 | ND | 0.23 | |
| 74-83-9 | Bromomethane | ND | 0.50 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.50 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 0.50 | ND | 0.30 | |
| 107-02-8 | Acrolein | ND | 2.0 | ND | 0.87 | |
| 67-64-1 | Acetone | ND | 5.0 | ND | 2.1 | |
| 75-69-4 | Trichlorofluoromethane | ND | 0.50 | ND | 0.089 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 5.0 | ND | 2.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | ND | 0.23 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | ND | 0.14 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.50 | ND | 0.16 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.50 | ND | 0.065 | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | ND | 1.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.50 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | ND | 1.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130429-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/29/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.50 | ND | 0.14 | |
| 67-66-3 | Chloroform | ND | 0.50 | ND | 0.10 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.50 | ND | 0.17 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.50 | ND | 0.080 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | ND | 0.075 | |
| 79-01-6 | Trichloroethene | ND | 0.50 | ND | 0.093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.50 | ND | 0.12 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | ND | 0.12 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 108-88-3 | Toluene | ND | 0.50 | ND | 0.13 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | ND | 0.12 | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | ND | 0.059 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | ND | 0.065 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.50 | ND | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P130429-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/29/13
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.50 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.50 | ND | 0.048 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.50 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.50 | ND | 0.095 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 0.073 | |
| 98-82-8 | Cumene | ND | 0.50 | ND | 0.10 | |
| 80-56-8 | alpha-Pinene | ND | 0.50 | ND | 0.090 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | ND | 0.10 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | ND | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 100-44-7 | Benzyl Chloride | ND | 0.50 | ND | 0.097 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | ND | 0.052 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 0.067 | |
| 91-20-3 | Naphthalene | ND | 0.50 | ND | 0.095 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | ND | 0.047 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.

Client Sample ID: Method Blank

Client Project ID: Leica / 137015

CAS Project ID: P1301687

CAS Sample ID: P130430-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: NA

Analyst: Elsa Moctezuma

Date Analyzed: 4/30/13

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.50 | ND | 0.29 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | ND | 0.10 | |
| 74-87-3 | Chloromethane | ND | 0.50 | ND | 0.24 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | ND | 0.072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.50 | ND | 0.23 | |
| 74-83-9 | Bromomethane | ND | 0.50 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.50 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 0.50 | ND | 0.30 | |
| 107-02-8 | Acrolein | ND | 2.0 | ND | 0.87 | |
| 67-64-1 | Acetone | ND | 5.0 | ND | 2.1 | |
| 75-69-4 | Trichlorofluoromethane | ND | 0.50 | ND | 0.089 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 5.0 | ND | 2.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | ND | 0.23 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | ND | 0.14 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.50 | ND | 0.16 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.50 | ND | 0.065 | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | ND | 1.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.50 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | ND | 1.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130430-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.50 | ND | 0.14 | |
| 67-66-3 | Chloroform | ND | 0.50 | ND | 0.10 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.50 | ND | 0.17 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.50 | ND | 0.080 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | ND | 0.075 | |
| 79-01-6 | Trichloroethene | ND | 0.50 | ND | 0.093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.50 | ND | 0.12 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | ND | 0.12 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 108-88-3 | Toluene | ND | 0.50 | ND | 0.13 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | ND | 0.12 | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | ND | 0.059 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | ND | 0.065 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.50 | ND | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130430-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/30/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.50 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.50 | ND | 0.048 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.50 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.50 | ND | 0.095 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 0.073 | |
| 98-82-8 | Cumene | ND | 0.50 | ND | 0.10 | |
| 80-56-8 | alpha-Pinene | ND | 0.50 | ND | 0.090 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | ND | 0.10 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | ND | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 100-44-7 | Benzyl Chloride | ND | 0.50 | ND | 0.097 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | ND | 0.052 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 0.067 | |
| 91-20-3 | Naphthalene | ND | 0.50 | ND | 0.095 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | ND | 0.047 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.

Client Sample ID: Method Blank

Client Project ID: Leica / 137015

CAS Project ID: P1301687

CAS Sample ID: P130501-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: NA

Analyst: Elsa Moctezuma

Date Analyzed: 5/1/13

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.50 | ND | 0.29 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | ND | 0.10 | |
| 74-87-3 | Chloromethane | ND | 0.50 | ND | 0.24 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | ND | 0.072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.50 | ND | 0.23 | |
| 74-83-9 | Bromomethane | ND | 0.50 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.50 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 0.50 | ND | 0.30 | |
| 107-02-8 | Acrolein | ND | 2.0 | ND | 0.87 | |
| 67-64-1 | Acetone | ND | 5.0 | ND | 2.1 | |
| 75-69-4 | Trichlorofluoromethane | ND | 0.50 | ND | 0.089 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 5.0 | ND | 2.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | ND | 0.23 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | ND | 0.14 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.50 | ND | 0.16 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.50 | ND | 0.065 | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | ND | 1.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.50 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | ND | 1.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130501-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/1/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.50 | ND | 0.14 | |
| 67-66-3 | Chloroform | ND | 0.50 | ND | 0.10 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.50 | ND | 0.17 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.50 | ND | 0.080 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | ND | 0.075 | |
| 79-01-6 | Trichloroethene | ND | 0.50 | ND | 0.093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.50 | ND | 0.12 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | ND | 0.12 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 108-88-3 | Toluene | ND | 0.50 | ND | 0.13 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | ND | 0.12 | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | ND | 0.059 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | ND | 0.065 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.50 | ND | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130501-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/1/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.50 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.50 | ND | 0.048 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.50 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.50 | ND | 0.095 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 0.073 | |
| 98-82-8 | Cumene | ND | 0.50 | ND | 0.10 | |
| 80-56-8 | alpha-Pinene | ND | 0.50 | ND | 0.090 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | ND | 0.10 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | ND | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 100-44-7 | Benzyl Chloride | ND | 0.50 | ND | 0.097 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | ND | 0.052 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 0.067 | |
| 91-20-3 | Naphthalene | ND | 0.50 | ND | 0.095 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | ND | 0.047 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Energy Solutions, Inc.
Client Project ID: Leica / 137015

CAS Project ID: P1301687

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Elsa Moctezuma
 Sample Type: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 4/17 - 4/18/13
 Date(s) Received: 4/23/13
 Date(s) Analyzed: 4/29 - 5/1/13

| Client Sample ID | CAS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|--------------------|-----------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P130429-MB | 99 | 100 | 102 | 70-130 | |
| Method Blank | P130430-MB | 99 | 101 | 103 | 70-130 | |
| Method Blank | P130501-MB | 101 | 100 | 103 | 70-130 | |
| Lab Control Sample | P130429-LCS | 98 | 100 | 106 | 70-130 | |
| Lab Control Sample | P130430-LCS | 97 | 103 | 100 | 70-130 | |
| Lab Control Sample | P130501-LCS | 99 | 101 | 106 | 70-130 | |
| AA-8hr-049 | P1301687-001 | 97 | 103 | 98 | 70-130 | |
| AA-8hr-050 | P1301687-002 | 98 | 103 | 98 | 70-130 | |
| AA-8hr-048 | P1301687-003 | 98 | 101 | 100 | 70-130 | |
| AA-8hr-047 | P1301687-004 | 98 | 104 | 97 | 70-130 | |
| AA-8hr-046 | P1301687-005 | 99 | 101 | 101 | 70-130 | |
| SB-1 | P1301687-006 | 100 | 102 | 101 | 70-130 | |
| SB-1 | P1301687-006DUP | 99 | 101 | 101 | 70-130 | |
| IA-1 | P1301687-007 | 99 | 101 | 101 | 70-130 | |
| SB-2 | P1301687-008 | 100 | 99 | 106 | 70-130 | |
| IA-2 | P1301687-009 | 99 | 101 | 100 | 70-130 | |
| SB-6 | P1301687-010 | 100 | 101 | 100 | 70-130 | |
| IA-6 | P1301687-011 | 99 | 101 | 100 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P130429-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/29/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 115-07-1 | Propene | 204 | 202 | 99 | 58-139 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 202 | 184 | 91 | 63-115 | |
| 74-87-3 | Chloromethane | 196 | 182 | 93 | 58-122 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 206 | 192 | 93 | 65-115 | |
| 75-01-4 | Vinyl Chloride | 200 | 188 | 94 | 64-122 | |
| 106-99-0 | 1,3-Butadiene | 210 | 224 | 107 | 57-141 | |
| 74-83-9 | Bromomethane | 200 | 193 | 97 | 68-122 | |
| 75-00-3 | Chloroethane | 202 | 190 | 94 | 66-120 | |
| 64-17-5 | Ethanol | 958 | 871 | 91 | 58-126 | |
| 75-05-8 | Acetonitrile | 202 | 186 | 92 | 64-136 | |
| 107-02-8 | Acrolein | 204 | 191 | 94 | 58-129 | |
| 67-64-1 | Acetone | 1,040 | 925 | 89 | 60-114 | |
| 75-69-4 | Trichlorofluoromethane | 210 | 178 | 85 | 62-107 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 396 | 300 | 76 | 54-118 | |
| 107-13-1 | Acrylonitrile | 206 | 206 | 100 | 72-143 | |
| 75-35-4 | 1,1-Dichloroethene | 218 | 210 | 96 | 69-119 | |
| 75-09-2 | Methylene Chloride | 212 | 180 | 85 | 64-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 214 | 154 | 72 | 59-131 | |
| 76-13-1 | Trichlorotrifluoroethane | 212 | 200 | 94 | 69-117 | |
| 75-15-0 | Carbon Disulfide | 208 | 179 | 86 | 65-115 | |
| 156-60-5 | trans-1,2-Dichloroethene | 202 | 201 | 100 | 70-126 | |
| 75-34-3 | 1,1-Dichloroethane | 206 | 187 | 91 | 68-116 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 204 | 173 | 85 | 69-120 | |
| 108-05-4 | Vinyl Acetate | 988 | 959 | 97 | 58-160 | |
| 78-93-3 | 2-Butanone (MEK) | 212 | 198 | 93 | 70-127 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130429-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/29/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|-------------------|------|
| | | | | | Acceptance Limits | |
| 156-59-2 | cis-1,2-Dichloroethene | 214 | 202 | 94 | 70-119 | |
| 141-78-6 | Ethyl Acetate | 412 | 400 | 97 | 72-129 | |
| 110-54-3 | n-Hexane | 206 | 181 | 88 | 63-115 | |
| 67-66-3 | Chloroform | 222 | 196 | 88 | 68-110 | |
| 109-99-9 | Tetrahydrofuran (THF) | 208 | 210 | 101 | 60-126 | |
| 107-06-2 | 1,2-Dichloroethane | 208 | 192 | 92 | 69-118 | |
| 71-55-6 | 1,1,1-Trichloroethane | 204 | 193 | 95 | 68-120 | |
| 71-43-2 | Benzene | 208 | 177 | 85 | 69-117 | |
| 56-23-5 | Carbon Tetrachloride | 212 | 205 | 97 | 65-134 | |
| 110-82-7 | Cyclohexane | 402 | 375 | 93 | 69-114 | |
| 78-87-5 | 1,2-Dichloropropane | 204 | 190 | 93 | 70-116 | |
| 75-27-4 | Bromodichloromethane | 204 | 199 | 98 | 71-126 | |
| 79-01-6 | Trichloroethene | 198 | 193 | 97 | 71-119 | |
| 123-91-1 | 1,4-Dioxane | 206 | 187 | 91 | 72-126 | |
| 80-62-6 | Methyl Methacrylate | 414 | 415 | 100 | 75-136 | |
| 142-82-5 | n-Heptane | 202 | 187 | 93 | 70-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 196 | 196 | 100 | 75-132 | |
| 108-10-1 | 4-Methyl-2-pentanone | 210 | 206 | 98 | 70-133 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 218 | 224 | 103 | 78-136 | |
| 79-00-5 | 1,1,2-Trichloroethane | 202 | 192 | 95 | 72-119 | |
| 108-88-3 | Toluene | 208 | 181 | 87 | 65-116 | |
| 591-78-6 | 2-Hexanone | 228 | 208 | 91 | 62-132 | |
| 124-48-1 | Dibromochloromethane | 216 | 218 | 101 | 66-140 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 201 | 97 | 69-130 | |
| 123-86-4 | n-Butyl Acetate | 228 | 209 | 92 | 63-136 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P130429-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/29/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 111-65-9 | n-Octane | 206 | 188 | 91 | 66-118 | |
| 127-18-4 | Tetrachloroethene | 190 | 177 | 93 | 63-123 | |
| 108-90-7 | Chlorobenzene | 208 | 193 | 93 | 66-118 | |
| 100-41-4 | Ethylbenzene | 206 | 187 | 91 | 66-119 | |
| 179601-23-1 | m,p-Xylenes | 412 | 369 | 90 | 64-118 | |
| 75-25-2 | Bromoform | 216 | 214 | 99 | 64-140 | |
| 100-42-5 | Styrene | 208 | 192 | 92 | 68-132 | |
| 95-47-6 | o-Xylene | 200 | 183 | 92 | 65-120 | |
| 111-84-2 | n-Nonane | 202 | 180 | 89 | 64-117 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 198 | 186 | 94 | 63-128 | |
| 98-82-8 | Cumene | 196 | 177 | 90 | 65-121 | |
| 80-56-8 | alpha-Pinene | 192 | 179 | 93 | 66-123 | |
| 103-65-1 | n-Propylbenzene | 198 | 179 | 90 | 65-121 | |
| 622-96-8 | 4-Ethyltoluene | 204 | 185 | 91 | 64-122 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 191 | 92 | 64-125 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 200 | 196 | 98 | 64-131 | |
| 100-44-7 | Benzyl Chloride | 206 | 220 | 107 | 67-146 | |
| 541-73-1 | 1,3-Dichlorobenzene | 206 | 189 | 92 | 64-130 | |
| 106-46-7 | 1,4-Dichlorobenzene | 212 | 182 | 86 | 61-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 204 | 183 | 90 | 63-126 | |
| 5989-27-5 | d-Limonene | 206 | 200 | 97 | 62-133 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 202 | 206 | 102 | 62-155 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 200 | 195 | 98 | 59-146 | |
| 91-20-3 | Naphthalene | 178 | 178 | 100 | 56-143 | |
| 87-68-3 | Hexachlorobutadiene | 208 | 188 | 90 | 58-133 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P130430-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/30/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 115-07-1 | Propene | 204 | 204 | 100 | 58-139 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 202 | 182 | 90 | 63-115 | |
| 74-87-3 | Chloromethane | 196 | 178 | 91 | 58-122 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 206 | 190 | 92 | 65-115 | |
| 75-01-4 | Vinyl Chloride | 200 | 185 | 93 | 64-122 | |
| 106-99-0 | 1,3-Butadiene | 210 | 221 | 105 | 57-141 | |
| 74-83-9 | Bromomethane | 200 | 192 | 96 | 68-122 | |
| 75-00-3 | Chloroethane | 202 | 189 | 94 | 66-120 | |
| 64-17-5 | Ethanol | 958 | 860 | 90 | 58-126 | |
| 75-05-8 | Acetonitrile | 202 | 184 | 91 | 64-136 | |
| 107-02-8 | Acrolein | 204 | 187 | 92 | 58-129 | |
| 67-64-1 | Acetone | 1,040 | 904 | 87 | 60-114 | |
| 75-69-4 | Trichlorofluoromethane | 210 | 176 | 84 | 62-107 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 396 | 290 | 73 | 54-118 | |
| 107-13-1 | Acrylonitrile | 206 | 204 | 99 | 72-143 | |
| 75-35-4 | 1,1-Dichloroethene | 218 | 207 | 95 | 69-119 | |
| 75-09-2 | Methylene Chloride | 212 | 178 | 84 | 64-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 214 | 151 | 71 | 59-131 | |
| 76-13-1 | Trichlorotrifluoroethane | 212 | 198 | 93 | 69-117 | |
| 75-15-0 | Carbon Disulfide | 208 | 177 | 85 | 65-115 | |
| 156-60-5 | trans-1,2-Dichloroethene | 202 | 198 | 98 | 70-126 | |
| 75-34-3 | 1,1-Dichloroethane | 206 | 185 | 90 | 68-116 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 204 | 173 | 85 | 69-120 | |
| 108-05-4 | Vinyl Acetate | 988 | 954 | 97 | 58-160 | |
| 78-93-3 | 2-Butanone (MEK) | 212 | 196 | 92 | 70-127 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P130430-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/30/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 156-59-2 | cis-1,2-Dichloroethene | 214 | 201 | 94 | 70-119 | |
| 141-78-6 | Ethyl Acetate | 412 | 395 | 96 | 72-129 | |
| 110-54-3 | n-Hexane | 206 | 177 | 86 | 63-115 | |
| 67-66-3 | Chloroform | 222 | 194 | 87 | 68-110 | |
| 109-99-9 | Tetrahydrofuran (THF) | 208 | 209 | 100 | 60-126 | |
| 107-06-2 | 1,2-Dichloroethane | 208 | 190 | 91 | 69-118 | |
| 71-55-6 | 1,1,1-Trichloroethane | 204 | 193 | 95 | 68-120 | |
| 71-43-2 | Benzene | 208 | 177 | 85 | 69-117 | |
| 56-23-5 | Carbon Tetrachloride | 212 | 205 | 97 | 65-134 | |
| 110-82-7 | Cyclohexane | 402 | 375 | 93 | 69-114 | |
| 78-87-5 | 1,2-Dichloropropane | 204 | 188 | 92 | 70-116 | |
| 75-27-4 | Bromodichloromethane | 204 | 199 | 98 | 71-126 | |
| 79-01-6 | Trichloroethene | 198 | 193 | 97 | 71-119 | |
| 123-91-1 | 1,4-Dioxane | 206 | 186 | 90 | 72-126 | |
| 80-62-6 | Methyl Methacrylate | 414 | 410 | 99 | 75-136 | |
| 142-82-5 | n-Heptane | 202 | 186 | 92 | 70-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 196 | 195 | 99 | 75-132 | |
| 108-10-1 | 4-Methyl-2-pentanone | 210 | 204 | 97 | 70-133 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 218 | 223 | 102 | 78-136 | |
| 79-00-5 | 1,1,2-Trichloroethane | 202 | 192 | 95 | 72-119 | |
| 108-88-3 | Toluene | 208 | 188 | 90 | 65-116 | |
| 591-78-6 | 2-Hexanone | 228 | 214 | 94 | 62-132 | |
| 124-48-1 | Dibromochloromethane | 216 | 228 | 106 | 66-140 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 208 | 100 | 69-130 | |
| 123-86-4 | n-Butyl Acetate | 228 | 216 | 95 | 63-136 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P130430-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/30/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 111-65-9 | n-Octane | 206 | 193 | 94 | 66-118 | |
| 127-18-4 | Tetrachloroethene | 190 | 184 | 97 | 63-123 | |
| 108-90-7 | Chlorobenzene | 208 | 200 | 96 | 66-118 | |
| 100-41-4 | Ethylbenzene | 206 | 194 | 94 | 66-119 | |
| 179601-23-1 | m,p-Xylenes | 412 | 382 | 93 | 64-118 | |
| 75-25-2 | Bromoform | 216 | 221 | 102 | 64-140 | |
| 100-42-5 | Styrene | 208 | 199 | 96 | 68-132 | |
| 95-47-6 | o-Xylene | 200 | 190 | 95 | 65-120 | |
| 111-84-2 | n-Nonane | 202 | 185 | 92 | 64-117 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 198 | 194 | 98 | 63-128 | |
| 98-82-8 | Cumene | 196 | 184 | 94 | 65-121 | |
| 80-56-8 | alpha-Pinene | 192 | 184 | 96 | 66-123 | |
| 103-65-1 | n-Propylbenzene | 198 | 184 | 93 | 65-121 | |
| 622-96-8 | 4-Ethyltoluene | 204 | 190 | 93 | 64-122 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 197 | 95 | 64-125 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 200 | 202 | 101 | 64-131 | |
| 100-44-7 | Benzyl Chloride | 206 | 227 | 110 | 67-146 | |
| 541-73-1 | 1,3-Dichlorobenzene | 206 | 196 | 95 | 64-130 | |
| 106-46-7 | 1,4-Dichlorobenzene | 212 | 189 | 89 | 61-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 204 | 190 | 93 | 63-126 | |
| 5989-27-5 | d-Limonene | 206 | 206 | 100 | 62-133 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 202 | 214 | 106 | 62-155 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 200 | 198 | 99 | 59-146 | |
| 91-20-3 | Naphthalene | 178 | 181 | 102 | 56-143 | |
| 87-68-3 | Hexachlorobutadiene | 208 | 194 | 93 | 58-133 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
 CAS Sample ID: P130501-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/01/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 115-07-1 | Propene | 204 | 204 | 100 | 58-139 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 202 | 197 | 98 | 63-115 | |
| 74-87-3 | Chloromethane | 196 | 195 | 99 | 58-122 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 206 | 204 | 99 | 65-115 | |
| 75-01-4 | Vinyl Chloride | 200 | 203 | 102 | 64-122 | |
| 106-99-0 | 1,3-Butadiene | 210 | 244 | 116 | 57-141 | |
| 74-83-9 | Bromomethane | 200 | 210 | 105 | 68-122 | |
| 75-00-3 | Chloroethane | 202 | 206 | 102 | 66-120 | |
| 64-17-5 | Ethanol | 958 | 996 | 104 | 58-126 | |
| 75-05-8 | Acetonitrile | 202 | 209 | 103 | 64-136 | |
| 107-02-8 | Acrolein | 204 | 213 | 104 | 58-129 | |
| 67-64-1 | Acetone | 1,040 | 1020 | 98 | 60-114 | |
| 75-69-4 | Trichlorofluoromethane | 210 | 194 | 92 | 62-107 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 396 | 364 | 92 | 54-118 | |
| 107-13-1 | Acrylonitrile | 206 | 233 | 113 | 72-143 | |
| 75-35-4 | 1,1-Dichloroethene | 218 | 231 | 106 | 69-119 | |
| 75-09-2 | Methylene Chloride | 212 | 199 | 94 | 64-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 214 | 173 | 81 | 59-131 | |
| 76-13-1 | Trichlorotrifluoroethane | 212 | 218 | 103 | 69-117 | |
| 75-15-0 | Carbon Disulfide | 208 | 197 | 95 | 65-115 | |
| 156-60-5 | trans-1,2-Dichloroethene | 202 | 224 | 111 | 70-126 | |
| 75-34-3 | 1,1-Dichloroethane | 206 | 208 | 101 | 68-116 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 204 | 215 | 105 | 69-120 | |
| 108-05-4 | Vinyl Acetate | 988 | 1070 | 108 | 58-160 | |
| 78-93-3 | 2-Butanone (MEK) | 212 | 220 | 104 | 70-127 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130501-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/01/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 156-59-2 | cis-1,2-Dichloroethene | 214 | 226 | 106 | 70-119 | |
| 141-78-6 | Ethyl Acetate | 412 | 445 | 108 | 72-129 | |
| 110-54-3 | n-Hexane | 206 | 197 | 96 | 63-115 | |
| 67-66-3 | Chloroform | 222 | 218 | 98 | 68-110 | |
| 109-99-9 | Tetrahydrofuran (THF) | 208 | 234 | 113 | 60-126 | |
| 107-06-2 | 1,2-Dichloroethane | 208 | 214 | 103 | 69-118 | |
| 71-55-6 | 1,1,1-Trichloroethane | 204 | 215 | 105 | 68-120 | |
| 71-43-2 | Benzene | 208 | 196 | 94 | 69-117 | |
| 56-23-5 | Carbon Tetrachloride | 212 | 229 | 108 | 65-134 | |
| 110-82-7 | Cyclohexane | 402 | 415 | 103 | 69-114 | |
| 78-87-5 | 1,2-Dichloropropane | 204 | 210 | 103 | 70-116 | |
| 75-27-4 | Bromodichloromethane | 204 | 221 | 108 | 71-126 | |
| 79-01-6 | Trichloroethene | 198 | 213 | 108 | 71-119 | |
| 123-91-1 | 1,4-Dioxane | 206 | 209 | 101 | 72-126 | |
| 80-62-6 | Methyl Methacrylate | 414 | 460 | 111 | 75-136 | |
| 142-82-5 | n-Heptane | 202 | 206 | 102 | 70-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 196 | 217 | 111 | 75-132 | |
| 108-10-1 | 4-Methyl-2-pentanone | 210 | 229 | 109 | 70-133 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 218 | 249 | 114 | 78-136 | |
| 79-00-5 | 1,1,2-Trichloroethane | 202 | 212 | 105 | 72-119 | |
| 108-88-3 | Toluene | 208 | 201 | 97 | 65-116 | |
| 591-78-6 | 2-Hexanone | 228 | 233 | 102 | 62-132 | |
| 124-48-1 | Dibromochloromethane | 216 | 243 | 113 | 66-140 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 224 | 108 | 69-130 | |
| 123-86-4 | n-Butyl Acetate | 228 | 236 | 104 | 63-136 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P130501-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/01/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 111-65-9 | n-Octane | 206 | 210 | 102 | 66-118 | |
| 127-18-4 | Tetrachloroethene | 190 | 197 | 104 | 63-123 | |
| 108-90-7 | Chlorobenzene | 208 | 214 | 103 | 66-118 | |
| 100-41-4 | Ethylbenzene | 206 | 209 | 101 | 66-119 | |
| 179601-23-1 | m,p-Xylenes | 412 | 414 | 100 | 64-118 | |
| 75-25-2 | Bromoform | 216 | 239 | 111 | 64-140 | |
| 100-42-5 | Styrene | 208 | 218 | 105 | 68-132 | |
| 95-47-6 | o-Xylene | 200 | 206 | 103 | 65-120 | |
| 111-84-2 | n-Nonane | 202 | 202 | 100 | 64-117 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 198 | 209 | 106 | 63-128 | |
| 98-82-8 | Cumene | 196 | 198 | 101 | 65-121 | |
| 80-56-8 | alpha-Pinene | 192 | 204 | 106 | 66-123 | |
| 103-65-1 | n-Propylbenzene | 198 | 199 | 101 | 65-121 | |
| 622-96-8 | 4-Ethyltoluene | 204 | 205 | 100 | 64-122 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 214 | 103 | 64-125 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 200 | 218 | 109 | 64-131 | |
| 100-44-7 | Benzyl Chloride | 206 | 249 | 121 | 67-146 | |
| 541-73-1 | 1,3-Dichlorobenzene | 206 | 213 | 103 | 64-130 | |
| 106-46-7 | 1,4-Dichlorobenzene | 212 | 206 | 97 | 61-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 204 | 206 | 101 | 63-126 | |
| 5989-27-5 | d-Limonene | 206 | 236 | 115 | 62-133 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 202 | 234 | 116 | 62-155 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 200 | 227 | 114 | 59-146 | |
| 91-20-3 | Naphthalene | 178 | 212 | 119 | 56-143 | |
| 87-68-3 | Hexachlorobutadiene | 208 | 220 | 106 | 58-133 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-1
Client Project ID: Leica / 137015

CAS Project ID: P1301687
CAS Sample ID: P1301687-006DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01131

Date Collected: 4/18/13
Date Received: 4/23/13
Date Analyzed: 4/30/13
Volume(s) Analyzed: 0.060 Liter(s)

Initial Pressure (psig): -5.68

Final Pressure (psig): 3.44

Canister Dilution Factor: 2.01

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|--|-------------------|------|-------------------------|------|------------------------------|-------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Propene | ND | ND | ND | ND | - | - | 25 | |
| Dichlorodifluoromethane (CFC 12) | ND | ND | ND | ND | - | - | 25 | |
| Chloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Butadiene | ND | ND | ND | ND | - | - | 25 | |
| Bromomethane | ND | ND | ND | ND | - | - | 25 | |
| Chloroethane | ND | ND | ND | ND | - | - | 25 | |
| Ethanol | ND | ND | ND | ND | - | - | 25 | |
| Acetonitrile | ND | ND | ND | ND | - | - | 25 | |
| Acrolein | ND | ND | ND | ND | - | - | 25 | |
| Acetone | ND | ND | ND | ND | - | - | 25 | |
| Trichlorofluoromethane | ND | ND | ND | ND | - | - | 25 | |
| 2-Propanol (Isopropyl Alcohol) | ND | ND | ND | ND | - | - | 25 | |
| Acrylonitrile | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| Methylene Chloride | ND | ND | ND | ND | - | - | 25 | |
| 3-Chloro-1-propene (Allyl Chloride) | ND | ND | ND | ND | - | - | 25 | |
| Trichlorotrifluoroethane | ND | ND | ND | ND | - | - | 25 | |
| Carbon Disulfide | ND | ND | ND | ND | - | - | 25 | |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethane | 73.4 | 18.2 | 72.4 | 17.9 | 72.9 | 1 | 25 | |
| Methyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Acetate | ND | ND | ND | ND | - | - | 25 | |
| 2-Butanone (MEK) | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Energy Solutions, Inc.

Client Sample ID: SB-1

Client Project ID: Leica / 137015

CAS Project ID: P1301687

CAS Sample ID: P1301687-006DUP

Test Code: EPA TO-15

Date Collected: 4/18/13

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 4/23/13

Analyst: Elsa Moctezuma

Date Analyzed: 4/30/13

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.060 Liter(s)

Test Notes:

Container ID: AC01131

Initial Pressure (psig): -5.68

Final Pressure (psig): 3.44

Canister Dilution Factor: 2.01

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|---------------------------|-------------------|------|-------------------------|------|------------------------------|-------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| cis-1,2-Dichloroethene | 25.1 | 6.34 | 24.6 | 6.20 | 24.85 | 2 | 25 | |
| Ethyl Acetate | ND | ND | ND | ND | - | - | 25 | |
| n-Hexane | ND | ND | ND | ND | - | - | 25 | |
| Chloroform | ND | ND | ND | ND | - | - | 25 | |
| Tetrahydrofuran (THF) | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| 1,1,1-Trichloroethane | 434 | 79.6 | 430 | 78.8 | 432 | 0.9 | 25 | |
| Benzene | ND | ND | ND | ND | - | - | 25 | |
| Carbon Tetrachloride | ND | ND | ND | ND | - | - | 25 | |
| Cyclohexane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloropropane | ND | ND | ND | ND | - | - | 25 | |
| Bromodichloromethane | ND | ND | ND | ND | - | - | 25 | |
| Trichloroethene | 2,680 | 499 | 2,680 | 498 | 2680 | 0 | 25 | |
| 1,4-Dioxane | 146 | 40.7 | 146 | 40.4 | 146 | 0 | 25 | |
| Methyl Methacrylate | ND | ND | ND | ND | - | - | 25 | |
| n-Heptane | ND | ND | ND | ND | - | - | 25 | |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 4-Methyl-2-pentanone | ND | ND | ND | ND | - | - | 25 | |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Toluene | ND | ND | ND | ND | - | - | 25 | |
| 2-Hexanone | ND | ND | ND | ND | - | - | 25 | |
| Dibromochloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromoethane | ND | ND | ND | ND | - | - | 25 | |
| n-Butyl Acetate | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Energy Solutions, Inc.

Client Sample ID: SB-1

Client Project ID: Leica / 137015

CAS Project ID: P1301687

CAS Sample ID: P1301687-006DUP

Test Code: EPA TO-15

Date Collected: 4/18/13

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 4/23/13

Analyst: Elsa Moctezuma

Date Analyzed: 4/30/13

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.060 Liter(s)

Test Notes:

Container ID: AC01131

Initial Pressure (psig): -5.68

Final Pressure (psig): 3.44

Canister Dilution Factor: 2.01

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-----------------------------|-------------------|------|-------------------------|------|------------------------------|-------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| n-Octane | ND | ND | ND | ND | - | - | 25 | |
| Tetrachloroethene | ND | ND | ND | ND | - | - | 25 | |
| Chlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Ethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| m,p-Xylenes | ND | ND | ND | ND | - | - | 25 | |
| Bromoform | ND | ND | ND | ND | - | - | 25 | |
| Styrene | ND | ND | ND | ND | - | - | 25 | |
| o-Xylene | ND | ND | ND | ND | - | - | 25 | |
| n-Nonane | ND | ND | ND | ND | - | - | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | - | - | 25 | |
| Cumene | ND | ND | ND | ND | - | - | 25 | |
| alpha-Pinene | ND | ND | ND | ND | - | - | 25 | |
| n-Propylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 4-Ethyltoluene | ND | ND | ND | ND | - | - | 25 | |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| Benzyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| d-Limonene | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Naphthalene | ND | ND | ND | ND | - | - | 25 | |
| Hexachlorobutadiene | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

LABORATORY REPORT

May 7, 2013

Robert McPeak
Energy Solutions, Inc.
100 Mill Plain Rd 2nd Floor Mailbox 106
Danbury, CT 06811

RE: Leica / 137015

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on April 24, 2013. For your reference, these analyses have been assigned our service request number P1301748.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental



By Kate Aguilera at 12:50 pm, May 08, 2013

Kate Aguilera
Project Manager

Client: Energy Solutions, Inc.
Project: Leica / 137015

Service Request No: P1301748

CASE NARRATIVE

The samples were received intact under chain of custody on April 24, 2013 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Helium Analysis

Six of the samples were analyzed for helium according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD). This method is not included on the laboratory's NELAP scope of accreditation.

Volatile Organic Compound Analysis

All of the samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of Columbia Analytical Services, Inc. dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Columbia Analytical Services, Inc. dba ALS Environmental – Simi Valley
 Certifications, Accreditations, and Registrations

| Agency | Web Site | Number |
|------------------------|---|----------------------------|
| AIHA | http://www.aihaaccreditedlabs.org | 101661 |
| Arizona DHS | http://www.azdhs.gov/lab/license/env.htm | AZ0694 |
| DoD ELAP | http://www.pjlabs.com/search-accredited-labs | L11-203 |
| Florida DOH (NELAP) | http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm | E871020 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm | 2012039 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 494864 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/oqa/ | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | CA200007 |
| Pennsylvania DEP | http://www.depweb.state.pa.us/labs | 68-03307 (Registration) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html | T104704413-12-3 |
| Utah DOH (NELAP) | http://www.health.utah.gov/lab/labimp/certification/index.html | CA01527201 2-2 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |

Analyses were performed according to our laboratory’s NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.caslab.com, www.alsglobal.com, or at the accreditation body’s website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

DETAIL SUMMARY REPORT

Client: Energy Solutions, Inc.
 Project ID: Leica / 137015

Service Request: P1301748

Date Received: 4/24/2013
 Time Received: 10:10

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Container ID | Pi1 (psig) | Pf1 (psig) | 3C Modified - Helium Can | |
|------------------|--------------|--------|----------------|----------------|--------------|------------|------------|--------------------------|---|
| | | | | | | | | TO-15 - VOC Cans | |
| SB-3 | P1301748-001 | Air | 4/19/2013 | 16:30 | AC01582 | -3.72 | 3.83 | X | X |
| IA-3 | P1301748-002 | Air | 4/19/2013 | 16:30 | AC01348 | -3.23 | 3.70 | | X |
| SS-8hr-051 | P1301748-003 | Air | 4/19/2013 | 16:00 | AC01382 | -4.33 | 3.71 | X | X |
| SS-8hr-052 | P1301748-004 | Air | 4/19/2013 | 16:15 | AC00876 | -2.72 | 3.54 | X | X |
| IA-8hr-051 | P1301748-005 | Air | 4/19/2013 | 16:00 | AS00384 | -2.77 | 3.65 | | X |
| IA-8hr-052 | P1301748-006 | Air | 4/19/2013 | 16:15 | AC01159 | -4.74 | 3.66 | | X |
| IA-8hr-056 | P1301748-008 | Air | 4/20/2013 | 15:30 | AC01305 | -3.10 | 3.78 | | X |
| SS-8hr-053 | P1301748-009 | Air | 4/20/2013 | 15:45 | AC01901 | -2.26 | 3.60 | X | X |
| IA-8hr-053 | P1301748-010 | Air | 4/20/2013 | 15:45 | AC00915 | -2.61 | 3.67 | | X |
| SS-8hr-054 | P1301748-011 | Air | 4/20/2013 | 16:10 | AC01363 | -3.70 | 3.54 | X | X |
| IA-8hr-054 | P1301748-012 | Air | 4/20/2013 | 16:10 | AC00509 | -2.99 | 3.70 | | X |
| SS-8hr-055 | P1301748-013 | Air | 4/20/2013 | 15:50 | AC00676 | -3.20 | 3.61 | X | X |
| IA-8hr-055 | P1301748-014 | Air | 4/20/2013 | 15:50 | AC01414 | -2.50 | 3.77 | | X |



2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161
 Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day (Standard)

CAS Project No. R300748

Company Name & Address (Reporting Information)
ENERGY SOLUTIONS
 100 Mill Plain Rd
 DAUBURY CT 06811

Project Manager: Bob McPeak
 Phone: 801 303 1092 Fax: _____

Email Address for Result Reporting: RmcPeak@EnergySolutions.com

| Client Sample ID | Laboratory ID Number | Date Collected | Time Collected | Canister ID (Bar code # - AC, SC, etc.) | Flow Controller ID (Bar code # - FC #) | Canister Start Pressure "Hg | Canister End Pressure "Hg/psig | Sample Volume | Comments e.g. Actual Preservative or specific instructions |
|------------------|----------------------|----------------|-------------------------|---|--|-----------------------------|--------------------------------|---------------|--|
| | | | | | | | | | |
| SB-3 | ①-367 | 4/19/13 | 0830 1630 | ACD1582 | FCAD00490 | 28.0 | 6.0 | 6L | X |
| IA-3 | ②-332 | 4/19/13 | 0830 1630 | ACD1348 | FCAD00007 | 29.5 | 9.0 | 6L | X |
| SS-8hr-051 | ③-438 | 4/19/13 | 0800 1600 | ACD1382 | FCAD00532 | 29.0 | 8.5 | 6L | X |
| SS-8hr-052 | ④-268 | 4/19/13 | 0815 1615 | ACD00876 | FCAD00193 | 27.5 | 5.0 | 6L | X |
| IA-8hr-051 | ⑤-281 | 4/19/13 | 0800 1600 | ASD0384 | FCAD00408 | 27.5 | 5.0 | 6L | X |
| IA-8hr-052 | ⑥-450 | 4/19/13 | 0815 1615 | ACD1159 | FCAD00177 | 29.0 | 10.0 | 6L | X |
| OA-01 | ⑦ | 4/19/13 | 0830 1630 | SLC00146 | FC00853 | 30.0 | 7.0 | 6L | X |
| IA-8hr-056 | ⑧-314 | 4/20/13 | 0720 1530 | ACD1305 | FCAD02333 | 27.5 | 6.0 | 6L | X |
| SS-8hr-053 | ⑨-219 | 4/20/13 | 0740 1545 | ACD1901 | FCAD00174 | 29.0 | 6.0 | 6L | X |
| IA-8hr-053 | ⑩-266 | 4/20/13 | 0740 1545 | ACD00915 | FCAD00075 | 30.0 | 6.0 | 6L | X |
| SS-8hr-054 | ⑪-365 | 4/20/13 | 0805 1610 | ACD1363 | FCAD00203 | 29.0 | 5.0 | 6L | X |
| IA-8hr-054 | ⑫-304 | 4/20/13 | 0805 1610 | ACD00509 | FCAD00480 | 30.0+ | 11.0 | 6L | X |
| SS-8hr-055 | ⑬-318 | 4/20/13 | 0730 1550 | ACD00676 | FCAD00246 | 29.0 | 6.0 | 6L | X |
| IA-8hr-055 | ⑭-253 | 4/20/13 | 0730 1550 | ACD1414 | FCAD00678 | 29.5 | 6.0 | 6L | X |

Project Name: LEICA
 Project Number: 137015
 P.O. # / Billing Information: _____

CAS Contact: K. Aguilera
 Analysis Method: _____

Flow Controller ID (Bar code # - FC #): DAV slywia
 Canister Start Pressure "Hg: 28.0
 Canister End Pressure "Hg/psig: 6.0

Relinquished by: (Signature) Bob McPeak Date: 4/22/13 Time: 11:15
 Relinquished by: (Signature) [Signature] Date: 4/23/13 Time: 1:53

Relinquished by: (Signature) [Signature] Date: 4/22/13 Time: 11:15
 Relinquished by: (Signature) [Signature] Date: 4/24/13 Time: 10:10

Report Tier Levels - please select
 Tier I - Results (Default if not specified) _____
 Tier II (Results + QC Summaries) _____
 Tier III (Results + QC & Calibration Summaries) _____
 Tier IV (Data Validation Package) 10% Surcharge _____

EDD required Yes / No _____
 Type: NY DEC

Project Requirements (MRLs, QAPP) _____
 Cooler / Blank Temperature _____ °C

Sample Acceptance Check Form

Client: Energy Solutions, Inc. Work order: P1301748

Project: Leica / 137015

Sample(s) received on: 4/24/13 Date opened: 4/24/13 by: MZAMORA

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by ALS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|-----------------|-----------------------|---------------|-------------|-------------|----------------------------------|---------------------------------|
| P1301748-001.01 | 6.0 L Ambient Can | | | | | |
| P1301748-002.01 | 6.0 L Ambient Can | | | | | |
| P1301748-003.01 | 6.0 L Ambient Can | | | | | |
| P1301748-004.01 | 6.0 L Ambient Can | | | | | |
| P1301748-005.01 | 6.0 L Silonite Can | | | | | |
| P1301748-006.01 | 6.0 L Ambient Can | | | | | |
| P1301748-007.01 | 6.0 L Ambient Can | | | | | Sample not received. |
| P1301748-008.01 | 6.0 L Ambient Can | | | | | |

Explain any discrepancies: (include lab sample ID numbers): _____

RESULTS OF ANALYSIS

Page 1 of 1

Client: Energy Solutions, Inc.
Client Project ID: Leica / 137015

CAS Project ID: P1301748

Helium

Test Code: EPA 3C Modified
 Instrument ID: HP5890 II/GC8/TCD
 Analyst: Jennifer Young
 Sample Type: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 4/19 - 4/20/13
 Date Received: 4/24/13
 Date Analyzed: 4/27/13

| Client Sample ID | CAS Sample ID | Injection Volume ml(s) | Canister Dilution Factor | Result ppmV | MRL ppmV | Data Qualifier |
|------------------|---------------|------------------------|--------------------------|---------------|----------|----------------|
| SB-3 | P1301748-001 | 1.00 | 1.69 | 5,900 | 42 | |
| SS-8hr-051 | P1301748-003 | 1.00 | 1.78 | 3,200 | 45 | |
| SS-8hr-052 | P1301748-004 | 1.00 | 1.52 | 1,900 | 38 | |
| SS-8hr-053 | P1301748-009 | 1.00 | 1.47 | 10,000 | 37 | |
| SS-8hr-054 | P1301748-011 | 1.00 | 1.66 | 15,000 | 42 | |
| SS-8hr-055 | P1301748-013 | 1.00 | 1.59 | 2,100 | 40 | |
| Method Blank | P130427-MB | 1.00 | 1.00 | ND | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P130427-LCS

Test Code: EPA 3C Modified
 Instrument ID: HP5890 II/GC8/TCD
 Analyst: Jennifer Young
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/27/13
 Volume(s) Analyzed: NA ml(s)

| CAS # | Compound | Spike Amount ppmV | Result ppmV | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-----------|----------|----------------------|----------------|------------|-----------------------------|-------------------|
| 7440-59-7 | Helium | 10,000 | 11,200 | 112 | 70-127 | |

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-3
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01582

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 0.25 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.72 Final Pressure (psig): 3.83

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 3.4 | ND | 2.0 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 3.4 | ND | 0.68 | |
| 74-87-3 | Chloromethane | ND | 3.4 | ND | 1.6 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 3.4 | ND | 0.48 | |
| 75-01-4 | Vinyl Chloride | 4.4 | 3.4 | 1.7 | 1.3 | |
| 106-99-0 | 1,3-Butadiene | ND | 3.4 | ND | 1.5 | |
| 74-83-9 | Bromomethane | ND | 3.4 | ND | 0.87 | |
| 75-00-3 | Chloroethane | ND | 3.4 | ND | 1.3 | |
| 64-17-5 | Ethanol | ND | 34 | ND | 18 | |
| 75-05-8 | Acetonitrile | ND | 3.4 | ND | 2.0 | |
| 107-02-8 | Acrolein | ND | 14 | ND | 5.9 | |
| 67-64-1 | Acetone | ND | 34 | ND | 14 | |
| 75-69-4 | Trichlorofluoromethane | ND | 3.4 | ND | 0.60 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 34 | ND | 14 | |
| 107-13-1 | Acrylonitrile | ND | 3.4 | ND | 1.6 | |
| 75-35-4 | 1,1-Dichloroethene | 5.3 | 3.4 | 1.3 | 0.85 | |
| 75-09-2 | Methylene Chloride | ND | 3.4 | ND | 0.97 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 3.4 | ND | 1.1 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 3.4 | ND | 0.44 | |
| 75-15-0 | Carbon Disulfide | ND | 34 | ND | 11 | |
| 156-60-5 | trans-1,2-Dichloroethene | 190 | 3.4 | 47 | 0.85 | |
| 75-34-3 | 1,1-Dichloroethane | 4.7 | 3.4 | 1.2 | 0.84 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 3.4 | ND | 0.94 | |
| 108-05-4 | Vinyl Acetate | ND | 34 | ND | 9.6 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 34 | ND | 11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-3
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01582

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 0.25 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.72 Final Pressure (psig): 3.83

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | 280 | 3.4 | 71 | 0.85 | |
| 141-78-6 | Ethyl Acetate | ND | 6.8 | ND | 1.9 | |
| 110-54-3 | n-Hexane | ND | 3.4 | ND | 0.96 | |
| 67-66-3 | Chloroform | ND | 3.4 | ND | 0.69 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 3.4 | ND | 1.1 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 3.4 | ND | 0.84 | |
| 71-55-6 | 1,1,1-Trichloroethane | 7.6 | 3.4 | 1.4 | 0.62 | |
| 71-43-2 | Benzene | ND | 3.4 | ND | 1.1 | |
| 56-23-5 | Carbon Tetrachloride | ND | 3.4 | ND | 0.54 | |
| 110-82-7 | Cyclohexane | ND | 6.8 | ND | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 3.4 | ND | 0.73 | |
| 75-27-4 | Bromodichloromethane | ND | 3.4 | ND | 0.50 | |
| 79-01-6 | Trichloroethene | 750 | 17 | 140 | 3.1 | D |
| 123-91-1 | 1,4-Dioxane | ND | 3.4 | ND | 0.94 | |
| 80-62-6 | Methyl Methacrylate | ND | 6.8 | ND | 1.7 | |
| 142-82-5 | n-Heptane | ND | 3.4 | ND | 0.83 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 3.4 | ND | 0.74 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 3.4 | ND | 0.83 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 3.4 | ND | 0.74 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 3.4 | ND | 0.62 | |
| 108-88-3 | Toluene | ND | 3.4 | ND | 0.90 | |
| 591-78-6 | 2-Hexanone | ND | 3.4 | ND | 0.83 | |
| 124-48-1 | Dibromochloromethane | ND | 3.4 | ND | 0.40 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 3.4 | ND | 0.44 | |
| 123-86-4 | n-Butyl Acetate | ND | 3.4 | ND | 0.71 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SB-3
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01582

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 0.25 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.72 Final Pressure (psig): 3.83

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 3.4 | ND | 0.72 | |
| 127-18-4 | Tetrachloroethene | 7.7 | 3.4 | 1.1 | 0.50 | |
| 108-90-7 | Chlorobenzene | ND | 3.4 | ND | 0.73 | |
| 100-41-4 | Ethylbenzene | ND | 3.4 | ND | 0.78 | |
| 179601-23-1 | m,p-Xylenes | ND | 6.8 | ND | 1.6 | |
| 75-25-2 | Bromoform | ND | 3.4 | ND | 0.33 | |
| 100-42-5 | Styrene | ND | 3.4 | ND | 0.79 | |
| 95-47-6 | o-Xylene | ND | 3.4 | ND | 0.78 | |
| 111-84-2 | n-Nonane | ND | 3.4 | ND | 0.64 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 3.4 | ND | 0.49 | |
| 98-82-8 | Cumene | ND | 3.4 | ND | 0.69 | |
| 80-56-8 | alpha-Pinene | 18 | 3.4 | 3.3 | 0.61 | |
| 103-65-1 | n-Propylbenzene | ND | 3.4 | ND | 0.69 | |
| 622-96-8 | 4-Ethyltoluene | ND | 3.4 | ND | 0.69 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 3.4 | ND | 0.69 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 3.4 | ND | 0.69 | |
| 100-44-7 | Benzyl Chloride | ND | 3.4 | ND | 0.65 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 3.4 | ND | 0.56 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 3.4 | ND | 0.56 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 3.4 | ND | 0.56 | |
| 5989-27-5 | d-Limonene | ND | 3.4 | ND | 0.61 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 3.4 | ND | 0.35 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 3.4 | ND | 0.46 | |
| 91-20-3 | Naphthalene | ND | 3.4 | ND | 0.65 | |
| 87-68-3 | Hexachlorobutadiene | ND | 3.4 | ND | 0.32 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-3
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01348

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.60

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 43 | 0.80 | 25 | 0.47 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.80 | 0.42 | 0.16 | |
| 74-87-3 | Chloromethane | ND | 0.80 | ND | 0.39 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.80 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.80 | ND | 0.31 | |
| 106-99-0 | 1,3-Butadiene | 1.8 | 0.80 | 0.83 | 0.36 | |
| 74-83-9 | Bromomethane | ND | 0.80 | ND | 0.21 | |
| 75-00-3 | Chloroethane | ND | 0.80 | ND | 0.30 | |
| 64-17-5 | Ethanol | 8.8 | 8.0 | 4.7 | 4.2 | |
| 75-05-8 | Acetonitrile | ND | 0.80 | ND | 0.48 | |
| 107-02-8 | Acrolein | 3.6 | 3.2 | 1.6 | 1.4 | |
| 67-64-1 | Acetone | 17 | 8.0 | 7.4 | 3.4 | |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.80 | 0.22 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 8.0 | ND | 3.3 | |
| 107-13-1 | Acrylonitrile | ND | 0.80 | ND | 0.37 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.80 | ND | 0.20 | |
| 75-09-2 | Methylene Chloride | 2.1 | 0.80 | 0.61 | 0.23 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.80 | ND | 0.26 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.80 | ND | 0.10 | |
| 75-15-0 | Carbon Disulfide | ND | 8.0 | ND | 2.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.80 | ND | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.80 | ND | 0.20 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.80 | ND | 0.22 | |
| 108-05-4 | Vinyl Acetate | ND | 8.0 | ND | 2.3 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.0 | ND | 2.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-3
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01348

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.60

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.80 | ND | 0.20 | |
| 141-78-6 | Ethyl Acetate | 2.8 | 1.6 | 0.79 | 0.44 | |
| 110-54-3 | n-Hexane | 0.91 | 0.80 | 0.26 | 0.23 | |
| 67-66-3 | Chloroform | ND | 0.80 | ND | 0.16 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.80 | ND | 0.27 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.80 | ND | 0.20 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.80 | ND | 0.15 | |
| 71-43-2 | Benzene | 1.4 | 0.80 | 0.44 | 0.25 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.80 | ND | 0.13 | |
| 110-82-7 | Cyclohexane | ND | 1.6 | ND | 0.47 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.80 | ND | 0.17 | |
| 75-27-4 | Bromodichloromethane | ND | 0.80 | ND | 0.12 | |
| 79-01-6 | Trichloroethene | 3.6 | 0.80 | 0.67 | 0.15 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.80 | ND | 0.22 | |
| 80-62-6 | Methyl Methacrylate | 3.1 | 1.6 | 0.76 | 0.39 | |
| 142-82-5 | n-Heptane | ND | 0.80 | ND | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.80 | ND | 0.18 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.80 | ND | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.80 | ND | 0.18 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.80 | ND | 0.15 | |
| 108-88-3 | Toluene | 6.6 | 0.80 | 1.8 | 0.21 | |
| 591-78-6 | 2-Hexanone | ND | 0.80 | ND | 0.20 | |
| 124-48-1 | Dibromochloromethane | ND | 0.80 | ND | 0.094 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.80 | ND | 0.10 | |
| 123-86-4 | n-Butyl Acetate | 1.9 | 0.80 | 0.40 | 0.17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-3
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01348

Date Collected: 4/19/13
 Date Received: 4/24/13
 Date Analyzed: 5/2/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.60

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.80 | ND | 0.17 | |
| 127-18-4 | Tetrachloroethene | ND | 0.80 | ND | 0.12 | |
| 108-90-7 | Chlorobenzene | ND | 0.80 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | 1.9 | 0.80 | 0.43 | 0.18 | |
| 179601-23-1 | m,p-Xylenes | 4.8 | 1.6 | 1.1 | 0.37 | |
| 75-25-2 | Bromoform | ND | 0.80 | ND | 0.077 | |
| 100-42-5 | Styrene | 5.0 | 0.80 | 1.2 | 0.19 | |
| 95-47-6 | o-Xylene | 1.7 | 0.80 | 0.40 | 0.18 | |
| 111-84-2 | n-Nonane | ND | 0.80 | ND | 0.15 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.80 | ND | 0.12 | |
| 98-82-8 | Cumene | ND | 0.80 | ND | 0.16 | |
| 80-56-8 | alpha-Pinene | 5.8 | 0.80 | 1.0 | 0.14 | |
| 103-65-1 | n-Propylbenzene | ND | 0.80 | ND | 0.16 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.80 | ND | 0.16 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.80 | ND | 0.16 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | 0.80 | 0.22 | 0.16 | |
| 100-44-7 | Benzyl Chloride | ND | 0.80 | ND | 0.15 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.80 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.80 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.80 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | 1.1 | 0.80 | 0.19 | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.80 | ND | 0.083 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.80 | ND | 0.11 | |
| 91-20-3 | Naphthalene | ND | 0.80 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.80 | ND | 0.075 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-051
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01382

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -4.33 Final Pressure (psig): 3.71

Canister Dilution Factor: 1.78

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 8.2 | 0.89 | 4.8 | 0.52 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 1.7 | 0.89 | 0.34 | 0.18 | |
| 74-87-3 | Chloromethane | ND | 0.89 | ND | 0.43 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.89 | ND | 0.13 | |
| 75-01-4 | Vinyl Chloride | ND | 0.89 | ND | 0.35 | |
| 106-99-0 | 1,3-Butadiene | 2.7 | 0.89 | 1.2 | 0.40 | |
| 74-83-9 | Bromomethane | ND | 0.89 | ND | 0.23 | |
| 75-00-3 | Chloroethane | ND | 0.89 | ND | 0.34 | |
| 64-17-5 | Ethanol | 45 | 8.9 | 24 | 4.7 | |
| 75-05-8 | Acetonitrile | 6.7 | 0.89 | 4.0 | 0.53 | |
| 107-02-8 | Acrolein | ND | 3.6 | ND | 1.6 | |
| 67-64-1 | Acetone | 360 | 8.9 | 150 | 3.7 | |
| 75-69-4 | Trichlorofluoromethane | 1.0 | 0.89 | 0.18 | 0.16 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 21 | 8.9 | 8.7 | 3.6 | |
| 107-13-1 | Acrylonitrile | ND | 0.89 | ND | 0.41 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.89 | ND | 0.22 | |
| 75-09-2 | Methylene Chloride | ND | 0.89 | ND | 0.26 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.89 | ND | 0.28 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.89 | ND | 0.12 | |
| 75-15-0 | Carbon Disulfide | 51 | 8.9 | 17 | 2.9 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.89 | ND | 0.22 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.89 | ND | 0.22 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.89 | ND | 0.25 | |
| 108-05-4 | Vinyl Acetate | ND | 8.9 | ND | 2.5 | |
| 78-93-3 | 2-Butanone (MEK) | 51 | 8.9 | 17 | 3.0 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-051
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01382

Date Collected: 4/19/13
 Date Received: 4/24/13
 Date Analyzed: 5/2/13
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -4.33 Final Pressure (psig): 3.71

Canister Dilution Factor: 1.78

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.89 | ND | 0.22 | |
| 141-78-6 | Ethyl Acetate | ND | 1.8 | ND | 0.49 | |
| 110-54-3 | n-Hexane | 230 | 8.9 | 64 | 2.5 | D |
| 67-66-3 | Chloroform | ND | 0.89 | ND | 0.18 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.89 | ND | 0.30 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.89 | ND | 0.22 | |
| 71-55-6 | 1,1,1-Trichloroethane | 6.3 | 0.89 | 1.2 | 0.16 | |
| 71-43-2 | Benzene | 36 | 0.89 | 11 | 0.28 | |
| 56-23-5 | Carbon Tetrachloride | 1.4 | 0.89 | 0.23 | 0.14 | |
| 110-82-7 | Cyclohexane | 86 | 1.8 | 25 | 0.52 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.89 | ND | 0.19 | |
| 75-27-4 | Bromodichloromethane | ND | 0.89 | ND | 0.13 | |
| 79-01-6 | Trichloroethene | 150 | 0.89 | 28 | 0.17 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.89 | ND | 0.25 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.8 | ND | 0.43 | |
| 142-82-5 | n-Heptane | 210 | 8.9 | 52 | 2.2 | D |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.89 | ND | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone | 4.8 | 0.89 | 1.2 | 0.22 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.89 | ND | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.89 | ND | 0.16 | |
| 108-88-3 | Toluene | 160 | 0.89 | 43 | 0.24 | |
| 591-78-6 | 2-Hexanone | ND | 0.89 | ND | 0.22 | |
| 124-48-1 | Dibromochloromethane | ND | 0.89 | ND | 0.10 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.89 | ND | 0.12 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.89 | ND | 0.19 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-051
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01382

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -4.33 Final Pressure (psig): 3.71

Canister Dilution Factor: 1.78

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 130 | 0.89 | 29 | 0.19 | |
| 127-18-4 | Tetrachloroethene | 2.8 | 0.89 | 0.41 | 0.13 | |
| 108-90-7 | Chlorobenzene | ND | 0.89 | ND | 0.19 | |
| 100-41-4 | Ethylbenzene | 7.6 | 0.89 | 1.8 | 0.20 | |
| 179601-23-1 | m,p-Xylenes | 33 | 1.8 | 7.6 | 0.41 | |
| 75-25-2 | Bromoform | ND | 0.89 | ND | 0.086 | |
| 100-42-5 | Styrene | 0.95 | 0.89 | 0.22 | 0.21 | |
| 95-47-6 | o-Xylene | 12 | 0.89 | 2.7 | 0.20 | |
| 111-84-2 | n-Nonane | 70 | 0.89 | 13 | 0.17 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.89 | ND | 0.13 | |
| 98-82-8 | Cumene | 1.5 | 0.89 | 0.30 | 0.18 | |
| 80-56-8 | alpha-Pinene | 6.3 | 0.89 | 1.1 | 0.16 | |
| 103-65-1 | n-Propylbenzene | 1.3 | 0.89 | 0.26 | 0.18 | |
| 622-96-8 | 4-Ethyltoluene | 1.2 | 0.89 | 0.24 | 0.18 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 3.5 | 0.89 | 0.71 | 0.18 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5.0 | 0.89 | 1.0 | 0.18 | |
| 100-44-7 | Benzyl Chloride | ND | 0.89 | ND | 0.17 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.89 | ND | 0.15 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.89 | ND | 0.15 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.89 | ND | 0.15 | |
| 5989-27-5 | d-Limonene | 1.8 | 0.89 | 0.32 | 0.16 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.89 | ND | 0.092 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.89 | ND | 0.12 | |
| 91-20-3 | Naphthalene | ND | 0.89 | ND | 0.17 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.89 | ND | 0.083 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00876

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -2.72 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.52

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 8.8 | 1.5 | 5.1 | 0.88 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 1.8 | 1.5 | 0.36 | 0.31 | |
| 74-87-3 | Chloromethane | ND | 1.5 | ND | 0.74 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 1.5 | ND | 0.22 | |
| 75-01-4 | Vinyl Chloride | ND | 1.5 | ND | 0.59 | |
| 106-99-0 | 1,3-Butadiene | 2.4 | 1.5 | 1.1 | 0.69 | |
| 74-83-9 | Bromomethane | ND | 1.5 | ND | 0.39 | |
| 75-00-3 | Chloroethane | ND | 1.5 | ND | 0.58 | |
| 64-17-5 | Ethanol | 16 | 15 | 8.4 | 8.1 | |
| 75-05-8 | Acetonitrile | 13 | 1.5 | 7.7 | 0.91 | |
| 107-02-8 | Acrolein | ND | 6.1 | ND | 2.7 | |
| 67-64-1 | Acetone | 230 | 15 | 99 | 6.4 | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.5 | ND | 0.27 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 16 | 15 | 6.7 | 6.2 | |
| 107-13-1 | Acrylonitrile | ND | 1.5 | ND | 0.70 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.5 | ND | 0.38 | |
| 75-09-2 | Methylene Chloride | ND | 1.5 | ND | 0.44 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 1.5 | ND | 0.49 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 1.5 | ND | 0.20 | |
| 75-15-0 | Carbon Disulfide | 18 | 15 | 5.7 | 4.9 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.5 | ND | 0.38 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.5 | ND | 0.38 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 1.5 | ND | 0.42 | |
| 108-05-4 | Vinyl Acetate | ND | 15 | ND | 4.3 | |
| 78-93-3 | 2-Butanone (MEK) | 36 | 15 | 12 | 5.2 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00876

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -2.72 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.52

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.5 | ND | 0.38 | |
| 141-78-6 | Ethyl Acetate | ND | 3.0 | ND | 0.84 | |
| 110-54-3 | n-Hexane | 130 | 1.5 | 38 | 0.43 | |
| 67-66-3 | Chloroform | ND | 1.5 | ND | 0.31 | |
| 109-99-9 | Tetrahydrofuran (THF) | 1.6 | 1.5 | 0.54 | 0.52 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.5 | ND | 0.38 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.5 | ND | 0.28 | |
| 71-43-2 | Benzene | 35 | 1.5 | 11 | 0.48 | |
| 56-23-5 | Carbon Tetrachloride | ND | 1.5 | ND | 0.24 | |
| 110-82-7 | Cyclohexane | 52 | 3.0 | 15 | 0.88 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.5 | ND | 0.33 | |
| 75-27-4 | Bromodichloromethane | ND | 1.5 | ND | 0.23 | |
| 79-01-6 | Trichloroethene | 22 | 1.5 | 4.1 | 0.28 | |
| 123-91-1 | 1,4-Dioxane | ND | 1.5 | ND | 0.42 | |
| 80-62-6 | Methyl Methacrylate | ND | 3.0 | ND | 0.74 | |
| 142-82-5 | n-Heptane | 130 | 1.5 | 32 | 0.37 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.5 | ND | 0.33 | |
| 108-10-1 | 4-Methyl-2-pentanone | 3.8 | 1.5 | 0.92 | 0.37 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.5 | ND | 0.33 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | ND | 0.28 | |
| 108-88-3 | Toluene | 130 | 1.5 | 34 | 0.40 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.37 | |
| 124-48-1 | Dibromochloromethane | ND | 1.5 | ND | 0.18 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.5 | ND | 0.20 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.32 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00876

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -2.72 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.52

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 88 | 1.5 | 19 | 0.33 | |
| 127-18-4 | Tetrachloroethene | 3.4 | 1.5 | 0.51 | 0.22 | |
| 108-90-7 | Chlorobenzene | ND | 1.5 | ND | 0.33 | |
| 100-41-4 | Ethylbenzene | 39 | 1.5 | 9.1 | 0.35 | |
| 179601-23-1 | m,p-Xylenes | 74 | 3.0 | 17 | 0.70 | |
| 75-25-2 | Bromoform | ND | 1.5 | ND | 0.15 | |
| 100-42-5 | Styrene | 2.2 | 1.5 | 0.53 | 0.36 | |
| 95-47-6 | o-Xylene | 26 | 1.5 | 6.1 | 0.35 | |
| 111-84-2 | n-Nonane | 37 | 1.5 | 7.1 | 0.29 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.5 | ND | 0.22 | |
| 98-82-8 | Cumene | 290 | 1.5 | 59 | 0.31 | |
| 80-56-8 | alpha-Pinene | ND | 1.5 | ND | 0.27 | |
| 103-65-1 | n-Propylbenzene | 3.9 | 1.5 | 0.80 | 0.31 | |
| 622-96-8 | 4-Ethyltoluene | 2.7 | 1.5 | 0.54 | 0.31 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 3.6 | 1.5 | 0.74 | 0.31 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 9.1 | 1.5 | 1.9 | 0.31 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.29 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.5 | ND | 0.25 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.5 | ND | 0.25 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.5 | ND | 0.25 | |
| 5989-27-5 | d-Limonene | 160 | 1.5 | 29 | 0.27 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.5 | ND | 0.16 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.5 | ND | 0.20 | |
| 91-20-3 | Naphthalene | 2.2 | 1.5 | 0.42 | 0.29 | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.5 | ND | 0.14 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-051
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AS00384

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.54

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 8.9 | 0.77 | 5.1 | 0.45 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.7 | 0.77 | 0.55 | 0.16 | |
| 74-87-3 | Chloromethane | 0.83 | 0.77 | 0.40 | 0.37 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.77 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.77 | ND | 0.30 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.77 | ND | 0.35 | |
| 74-83-9 | Bromomethane | ND | 0.77 | ND | 0.20 | |
| 75-00-3 | Chloroethane | ND | 0.77 | ND | 0.29 | |
| 64-17-5 | Ethanol | 99 | 7.7 | 52 | 4.1 | |
| 75-05-8 | Acetonitrile | 0.98 | 0.77 | 0.58 | 0.46 | |
| 107-02-8 | Acrolein | ND | 3.1 | ND | 1.3 | |
| 67-64-1 | Acetone | 47 | 7.7 | 20 | 3.2 | |
| 75-69-4 | Trichlorofluoromethane | 1.4 | 0.77 | 0.25 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 88 | 7.7 | 36 | 3.1 | |
| 107-13-1 | Acrylonitrile | ND | 0.77 | ND | 0.35 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.77 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | 1.6 | 0.77 | 0.46 | 0.22 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.77 | ND | 0.25 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.77 | ND | 0.10 | |
| 75-15-0 | Carbon Disulfide | ND | 7.7 | ND | 2.5 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.77 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.77 | ND | 0.19 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.77 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.7 | ND | 2.2 | |
| 78-93-3 | 2-Butanone (MEK) | 15 | 7.7 | 5.0 | 2.6 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-051
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AS00384

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.54

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.77 | ND | 0.19 | |
| 141-78-6 | Ethyl Acetate | 30 | 1.5 | 8.3 | 0.43 | |
| 110-54-3 | n-Hexane | 1.2 | 0.77 | 0.35 | 0.22 | |
| 67-66-3 | Chloroform | ND | 0.77 | ND | 0.16 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.77 | ND | 0.26 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.77 | ND | 0.19 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.77 | ND | 0.14 | |
| 71-43-2 | Benzene | ND | 0.77 | ND | 0.24 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.77 | ND | 0.12 | |
| 110-82-7 | Cyclohexane | ND | 1.5 | ND | 0.45 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.77 | ND | 0.17 | |
| 75-27-4 | Bromodichloromethane | ND | 0.77 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 1.1 | 0.77 | 0.21 | 0.14 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.77 | ND | 0.21 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.5 | ND | 0.38 | |
| 142-82-5 | n-Heptane | 1.2 | 0.77 | 0.29 | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.77 | ND | 0.17 | |
| 108-10-1 | 4-Methyl-2-pentanone | 3.1 | 0.77 | 0.77 | 0.19 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.77 | ND | 0.17 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.77 | ND | 0.14 | |
| 108-88-3 | Toluene | 3.9 | 0.77 | 1.0 | 0.20 | |
| 591-78-6 | 2-Hexanone | 1.1 | 0.77 | 0.28 | 0.19 | |
| 124-48-1 | Dibromochloromethane | ND | 0.77 | ND | 0.090 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.77 | ND | 0.10 | |
| 123-86-4 | n-Butyl Acetate | 0.78 | 0.77 | 0.16 | 0.16 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-051
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AS00384

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.54

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 1.8 | 0.77 | 0.39 | 0.16 | |
| 127-18-4 | Tetrachloroethene | ND | 0.77 | ND | 0.11 | |
| 108-90-7 | Chlorobenzene | ND | 0.77 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | 1.1 | 0.77 | 0.25 | 0.18 | |
| 179601-23-1 | m,p-Xylenes | 2.2 | 1.5 | 0.52 | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.77 | ND | 0.075 | |
| 100-42-5 | Styrene | 2.5 | 0.77 | 0.59 | 0.18 | |
| 95-47-6 | o-Xylene | 0.84 | 0.77 | 0.19 | 0.18 | |
| 111-84-2 | n-Nonane | ND | 0.77 | ND | 0.15 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.77 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.77 | ND | 0.16 | |
| 80-56-8 | alpha-Pinene | 2.7 | 0.77 | 0.48 | 0.14 | |
| 103-65-1 | n-Propylbenzene | ND | 0.77 | ND | 0.16 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.77 | ND | 0.16 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.77 | ND | 0.16 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.77 | ND | 0.16 | |
| 100-44-7 | Benzyl Chloride | ND | 0.77 | ND | 0.15 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.77 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.77 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.77 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | ND | 0.77 | ND | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.77 | ND | 0.080 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.77 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.77 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.77 | ND | 0.072 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01159

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.84

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 26 | 0.92 | 15 | 0.53 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.4 | 0.92 | 0.48 | 0.19 | |
| 74-87-3 | Chloromethane | ND | 0.92 | ND | 0.45 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.92 | ND | 0.13 | |
| 75-01-4 | Vinyl Chloride | ND | 0.92 | ND | 0.36 | |
| 106-99-0 | 1,3-Butadiene | 1.0 | 0.92 | 0.47 | 0.42 | |
| 74-83-9 | Bromomethane | ND | 0.92 | ND | 0.24 | |
| 75-00-3 | Chloroethane | ND | 0.92 | ND | 0.35 | |
| 64-17-5 | Ethanol | 22 | 9.2 | 12 | 4.9 | |
| 75-05-8 | Acetonitrile | ND | 0.92 | ND | 0.55 | |
| 107-02-8 | Acrolein | ND | 3.7 | ND | 1.6 | |
| 67-64-1 | Acetone | 25 | 9.2 | 11 | 3.9 | |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.92 | 0.22 | 0.16 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 9.2 | ND | 3.7 | |
| 107-13-1 | Acrylonitrile | ND | 0.92 | ND | 0.42 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.92 | ND | 0.23 | |
| 75-09-2 | Methylene Chloride | 4.6 | 0.92 | 1.3 | 0.26 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.92 | ND | 0.29 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.92 | ND | 0.12 | |
| 75-15-0 | Carbon Disulfide | ND | 9.2 | ND | 3.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.92 | ND | 0.23 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.92 | ND | 0.23 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.92 | ND | 0.26 | |
| 108-05-4 | Vinyl Acetate | ND | 9.2 | ND | 2.6 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.2 | ND | 3.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01159

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.84

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.92 | ND | 0.23 | |
| 141-78-6 | Ethyl Acetate | 2.8 | 1.8 | 0.79 | 0.51 | |
| 110-54-3 | n-Hexane | 2.3 | 0.92 | 0.67 | 0.26 | |
| 67-66-3 | Chloroform | ND | 0.92 | ND | 0.19 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.92 | ND | 0.31 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.92 | ND | 0.23 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.92 | ND | 0.17 | |
| 71-43-2 | Benzene | 1.2 | 0.92 | 0.38 | 0.29 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.92 | ND | 0.15 | |
| 110-82-7 | Cyclohexane | ND | 1.8 | ND | 0.53 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.92 | ND | 0.20 | |
| 75-27-4 | Bromodichloromethane | ND | 0.92 | ND | 0.14 | |
| 79-01-6 | Trichloroethene | 3.1 | 0.92 | 0.58 | 0.17 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.92 | ND | 0.26 | |
| 80-62-6 | Methyl Methacrylate | 5.5 | 1.8 | 1.3 | 0.45 | |
| 142-82-5 | n-Heptane | 1.5 | 0.92 | 0.36 | 0.22 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.92 | ND | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.92 | ND | 0.22 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.92 | ND | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.92 | ND | 0.17 | |
| 108-88-3 | Toluene | 8.9 | 0.92 | 2.4 | 0.24 | |
| 591-78-6 | 2-Hexanone | ND | 0.92 | ND | 0.22 | |
| 124-48-1 | Dibromochloromethane | ND | 0.92 | ND | 0.11 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.92 | ND | 0.12 | |
| 123-86-4 | n-Butyl Acetate | 3.5 | 0.92 | 0.73 | 0.19 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01159

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.84

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.92 | ND | 0.20 | |
| 127-18-4 | Tetrachloroethene | ND | 0.92 | ND | 0.14 | |
| 108-90-7 | Chlorobenzene | ND | 0.92 | ND | 0.20 | |
| 100-41-4 | Ethylbenzene | 3.0 | 0.92 | 0.70 | 0.21 | |
| 179601-23-1 | m,p-Xylenes | 6.4 | 1.8 | 1.5 | 0.42 | |
| 75-25-2 | Bromoform | ND | 0.92 | ND | 0.089 | |
| 100-42-5 | Styrene | 10 | 0.92 | 2.3 | 0.22 | |
| 95-47-6 | o-Xylene | 2.3 | 0.92 | 0.54 | 0.21 | |
| 111-84-2 | n-Nonane | ND | 0.92 | ND | 0.18 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.92 | ND | 0.13 | |
| 98-82-8 | Cumene | ND | 0.92 | ND | 0.19 | |
| 80-56-8 | alpha-Pinene | 8.2 | 0.92 | 1.5 | 0.17 | |
| 103-65-1 | n-Propylbenzene | ND | 0.92 | ND | 0.19 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.92 | ND | 0.19 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.92 | ND | 0.19 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | 0.92 | 0.22 | 0.19 | |
| 100-44-7 | Benzyl Chloride | ND | 0.92 | ND | 0.18 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.92 | ND | 0.15 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.92 | ND | 0.15 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.92 | ND | 0.15 | |
| 5989-27-5 | d-Limonene | 1.4 | 0.92 | 0.26 | 0.17 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.92 | ND | 0.095 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.92 | ND | 0.12 | |
| 91-20-3 | Naphthalene | ND | 0.92 | ND | 0.18 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.92 | ND | 0.086 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-056
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01305

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.10 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.59

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|-------------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.80 | ND | 0.46 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.7 | 0.80 | 0.55 | 0.16 | |
| 74-87-3 | Chloromethane | 0.88 | 0.80 | 0.43 | 0.39 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.80 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.80 | ND | 0.31 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.80 | ND | 0.36 | |
| 74-83-9 | Bromomethane | ND | 0.80 | ND | 0.20 | |
| 75-00-3 | Chloroethane | ND | 0.80 | ND | 0.30 | |
| 64-17-5 | Ethanol | ND | 8.0 | ND | 4.2 | |
| 75-05-8 | Acetonitrile | ND | 0.80 | ND | 0.47 | |
| 107-02-8 | Acrolein | ND | 3.2 | ND | 1.4 | |
| 67-64-1 | Acetone | 14 | 8.0 | 5.7 | 3.3 | |
| 75-69-4 | Trichlorofluoromethane | 1.5 | 0.80 | 0.26 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 8.0 | ND | 3.2 | |
| 107-13-1 | Acrylonitrile | ND | 0.80 | ND | 0.37 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.80 | ND | 0.20 | |
| 75-09-2 | Methylene Chloride | 5.0 | 0.80 | 1.4 | 0.23 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.80 | ND | 0.25 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.80 | ND | 0.10 | |
| 75-15-0 | Carbon Disulfide | ND | 8.0 | ND | 2.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.80 | ND | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.80 | ND | 0.20 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.80 | ND | 0.22 | |
| 108-05-4 | Vinyl Acetate | ND | 8.0 | ND | 2.3 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.0 | ND | 2.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-056
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01305

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.10 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.59

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.80 | ND | 0.20 | |
| 141-78-6 | Ethyl Acetate | ND | 1.6 | ND | 0.44 | |
| 110-54-3 | n-Hexane | ND | 0.80 | ND | 0.23 | |
| 67-66-3 | Chloroform | ND | 0.80 | ND | 0.16 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.80 | ND | 0.27 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.80 | ND | 0.20 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.80 | ND | 0.15 | |
| 71-43-2 | Benzene | ND | 0.80 | ND | 0.25 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.80 | ND | 0.13 | |
| 110-82-7 | Cyclohexane | ND | 1.6 | ND | 0.46 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.80 | ND | 0.17 | |
| 75-27-4 | Bromodichloromethane | ND | 0.80 | ND | 0.12 | |
| 79-01-6 | Trichloroethene | 33 | 0.80 | 6.2 | 0.15 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.80 | ND | 0.22 | |
| 80-62-6 | Methyl Methacrylate | 3.4 | 1.6 | 0.82 | 0.39 | |
| 142-82-5 | n-Heptane | ND | 0.80 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.80 | ND | 0.18 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.80 | ND | 0.19 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.80 | ND | 0.18 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.80 | ND | 0.15 | |
| 108-88-3 | Toluene | 6.5 | 0.80 | 1.7 | 0.21 | |
| 591-78-6 | 2-Hexanone | ND | 0.80 | ND | 0.19 | |
| 124-48-1 | Dibromochloromethane | ND | 0.80 | ND | 0.093 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.80 | ND | 0.10 | |
| 123-86-4 | n-Butyl Acetate | 1.1 | 0.80 | 0.23 | 0.17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-056
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01305

Date Collected: 4/20/13
 Date Received: 4/24/13
 Date Analyzed: 5/2/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.10 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.59

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.80 | ND | 0.17 | |
| 127-18-4 | Tetrachloroethene | ND | 0.80 | ND | 0.12 | |
| 108-90-7 | Chlorobenzene | ND | 0.80 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | 1.8 | 0.80 | 0.42 | 0.18 | |
| 179601-23-1 | m,p-Xylenes | 4.6 | 1.6 | 1.1 | 0.37 | |
| 75-25-2 | Bromoform | ND | 0.80 | ND | 0.077 | |
| 100-42-5 | Styrene | 5.4 | 0.80 | 1.3 | 0.19 | |
| 95-47-6 | o-Xylene | 1.6 | 0.80 | 0.36 | 0.18 | |
| 111-84-2 | n-Nonane | ND | 0.80 | ND | 0.15 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.80 | ND | 0.12 | |
| 98-82-8 | Cumene | ND | 0.80 | ND | 0.16 | |
| 80-56-8 | alpha-Pinene | 4.2 | 0.80 | 0.75 | 0.14 | |
| 103-65-1 | n-Propylbenzene | ND | 0.80 | ND | 0.16 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.80 | ND | 0.16 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.80 | ND | 0.16 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.80 | ND | 0.16 | |
| 100-44-7 | Benzyl Chloride | ND | 0.80 | ND | 0.15 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.80 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.80 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.80 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | ND | 0.80 | ND | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.80 | ND | 0.082 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.80 | ND | 0.11 | |
| 91-20-3 | Naphthalene | ND | 0.80 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.80 | ND | 0.075 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-053
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01901

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -2.26 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.47

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 29 | 15 | 17 | 8.5 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 15 | ND | 3.0 | |
| 74-87-3 | Chloromethane | ND | 15 | ND | 7.1 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 15 | ND | 2.1 | |
| 75-01-4 | Vinyl Chloride | ND | 15 | ND | 5.8 | |
| 106-99-0 | 1,3-Butadiene | ND | 15 | ND | 6.6 | |
| 74-83-9 | Bromomethane | ND | 15 | ND | 3.8 | |
| 75-00-3 | Chloroethane | ND | 15 | ND | 5.6 | |
| 64-17-5 | Ethanol | ND | 150 | ND | 78 | |
| 75-05-8 | Acetonitrile | ND | 15 | ND | 8.8 | |
| 107-02-8 | Acrolein | ND | 59 | ND | 26 | |
| 67-64-1 | Acetone | 600 | 150 | 250 | 62 | |
| 75-69-4 | Trichlorofluoromethane | ND | 15 | ND | 2.6 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 150 | ND | 60 | |
| 107-13-1 | Acrylonitrile | ND | 15 | ND | 6.8 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 15 | ND | 3.7 | |
| 75-09-2 | Methylene Chloride | ND | 15 | ND | 4.2 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 15 | ND | 4.7 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 15 | ND | 1.9 | |
| 75-15-0 | Carbon Disulfide | ND | 150 | ND | 47 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 15 | ND | 3.7 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 15 | ND | 3.6 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 15 | ND | 4.1 | |
| 108-05-4 | Vinyl Acetate | ND | 150 | ND | 42 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 150 | ND | 50 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-053
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01901

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -2.26 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.47

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 15 | ND | 3.7 | |
| 141-78-6 | Ethyl Acetate | ND | 29 | ND | 8.2 | |
| 110-54-3 | n-Hexane | 2,200 | 15 | 620 | 4.2 | |
| 67-66-3 | Chloroform | ND | 15 | ND | 3.0 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 15 | ND | 5.0 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 15 | ND | 3.6 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 15 | ND | 2.7 | |
| 71-43-2 | Benzene | 210 | 15 | 65 | 4.6 | |
| 56-23-5 | Carbon Tetrachloride | ND | 15 | ND | 2.3 | |
| 110-82-7 | Cyclohexane | 2,100 | 29 | 610 | 8.5 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 15 | ND | 3.2 | |
| 75-27-4 | Bromodichloromethane | ND | 15 | ND | 2.2 | |
| 79-01-6 | Trichloroethene | 950 | 15 | 180 | 2.7 | |
| 123-91-1 | 1,4-Dioxane | ND | 15 | ND | 4.1 | |
| 80-62-6 | Methyl Methacrylate | ND | 29 | ND | 7.2 | |
| 142-82-5 | n-Heptane | 2,300 | 15 | 560 | 3.6 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 15 | ND | 3.2 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 15 | ND | 3.6 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 15 | ND | 3.2 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 15 | ND | 2.7 | |
| 108-88-3 | Toluene | 540 | 15 | 140 | 3.9 | |
| 591-78-6 | 2-Hexanone | ND | 15 | ND | 3.6 | |
| 124-48-1 | Dibromochloromethane | ND | 15 | ND | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 15 | ND | 1.9 | |
| 123-86-4 | n-Butyl Acetate | ND | 15 | ND | 3.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-053
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01901

Date Collected: 4/20/13
 Date Received: 4/24/13
 Date Analyzed: 5/2/13
 Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -2.26 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.47

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 1,600 | 15 | 330 | 3.1 | |
| 127-18-4 | Tetrachloroethene | ND | 15 | ND | 2.2 | |
| 108-90-7 | Chlorobenzene | ND | 15 | ND | 3.2 | |
| 100-41-4 | Ethylbenzene | 100 | 15 | 23 | 3.4 | |
| 179601-23-1 | m,p-Xylenes | 320 | 29 | 73 | 6.8 | |
| 75-25-2 | Bromoform | ND | 15 | ND | 1.4 | |
| 100-42-5 | Styrene | ND | 15 | ND | 3.5 | |
| 95-47-6 | o-Xylene | 94 | 15 | 22 | 3.4 | |
| 111-84-2 | n-Nonane | 560 | 15 | 110 | 2.8 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 15 | ND | 2.1 | |
| 98-82-8 | Cumene | 520 | 15 | 100 | 3.0 | |
| 80-56-8 | alpha-Pinene | ND | 15 | ND | 2.6 | |
| 103-65-1 | n-Propylbenzene | ND | 15 | ND | 3.0 | |
| 622-96-8 | 4-Ethyltoluene | ND | 15 | ND | 3.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 15 | ND | 3.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 15 | ND | 3.0 | |
| 100-44-7 | Benzyl Chloride | ND | 15 | ND | 2.8 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 15 | ND | 2.4 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 15 | ND | 2.4 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 15 | ND | 2.4 | |
| 5989-27-5 | d-Limonene | 160 | 15 | 29 | 2.6 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 15 | ND | 1.5 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 15 | ND | 2.0 | |
| 91-20-3 | Naphthalene | ND | 15 | ND | 2.8 | |
| 87-68-3 | Hexachlorobutadiene | ND | 15 | ND | 1.4 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-053
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00915

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.61 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.52

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|-------------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.76 | ND | 0.44 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.3 | 0.76 | 0.47 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.76 | ND | 0.37 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.76 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.76 | ND | 0.30 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.76 | ND | 0.34 | |
| 74-83-9 | Bromomethane | ND | 0.76 | ND | 0.20 | |
| 75-00-3 | Chloroethane | ND | 0.76 | ND | 0.29 | |
| 64-17-5 | Ethanol | 8.7 | 7.6 | 4.6 | 4.0 | |
| 75-05-8 | Acetonitrile | ND | 0.76 | ND | 0.45 | |
| 107-02-8 | Acrolein | ND | 3.0 | ND | 1.3 | |
| 67-64-1 | Acetone | 7.9 | 7.6 | 3.3 | 3.2 | |
| 75-69-4 | Trichlorofluoromethane | 1.1 | 0.76 | 0.20 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.6 | ND | 3.1 | |
| 107-13-1 | Acrylonitrile | ND | 0.76 | ND | 0.35 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | 1.3 | 0.76 | 0.38 | 0.22 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.76 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.76 | ND | 0.099 | |
| 75-15-0 | Carbon Disulfide | ND | 7.6 | ND | 2.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.76 | ND | 0.19 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.76 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.6 | ND | 2.2 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 7.6 | ND | 2.6 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-053
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00915

Date Collected: 4/20/13
 Date Received: 4/24/13
 Date Analyzed: 5/2/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.61 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.52

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 141-78-6 | Ethyl Acetate | ND | 1.5 | ND | 0.42 | |
| 110-54-3 | n-Hexane | ND | 0.76 | ND | 0.22 | |
| 67-66-3 | Chloroform | ND | 0.76 | ND | 0.16 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.76 | ND | 0.26 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.76 | ND | 0.19 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.76 | ND | 0.14 | |
| 71-43-2 | Benzene | ND | 0.76 | ND | 0.24 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.76 | ND | 0.12 | |
| 110-82-7 | Cyclohexane | ND | 1.5 | ND | 0.44 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.76 | ND | 0.16 | |
| 75-27-4 | Bromodichloromethane | ND | 0.76 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 1.8 | 0.76 | 0.33 | 0.14 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.76 | ND | 0.21 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.5 | ND | 0.37 | |
| 142-82-5 | n-Heptane | ND | 0.76 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.76 | ND | 0.17 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.76 | ND | 0.19 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.76 | ND | 0.17 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.76 | ND | 0.14 | |
| 108-88-3 | Toluene | 2.1 | 0.76 | 0.56 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.76 | ND | 0.19 | |
| 124-48-1 | Dibromochloromethane | ND | 0.76 | ND | 0.089 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.76 | ND | 0.099 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.76 | ND | 0.16 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-053
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00915

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.61 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.52

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.76 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | ND | 0.76 | ND | 0.11 | |
| 108-90-7 | Chlorobenzene | ND | 0.76 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | ND | 0.76 | ND | 0.18 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.76 | ND | 0.074 | |
| 100-42-5 | Styrene | 1.5 | 0.76 | 0.36 | 0.18 | |
| 95-47-6 | o-Xylene | ND | 0.76 | ND | 0.18 | |
| 111-84-2 | n-Nonane | ND | 0.76 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.76 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.76 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | 0.94 | 0.76 | 0.17 | 0.14 | |
| 103-65-1 | n-Propylbenzene | ND | 0.76 | ND | 0.15 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.76 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.76 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.76 | ND | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 0.76 | ND | 0.15 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | 3.2 | 0.76 | 0.58 | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.76 | ND | 0.079 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.76 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.76 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.76 | ND | 0.071 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-054
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01363

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)
0.15 Liter(s)

Initial Pressure (psig): -3.70 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.66

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | 5.5 | 0.83 | 3.2 | 0.48 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 1.8 | 0.83 | 0.36 | 0.17 | |
| 74-87-3 | Chloromethane | ND | 0.83 | ND | 0.40 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.83 | ND | 0.12 | |
| 75-01-4 | Vinyl Chloride | ND | 0.83 | ND | 0.32 | |
| 106-99-0 | 1,3-Butadiene | 0.93 | 0.83 | 0.42 | 0.38 | |
| 74-83-9 | Bromomethane | ND | 0.83 | ND | 0.21 | |
| 75-00-3 | Chloroethane | ND | 0.83 | ND | 0.31 | |
| 64-17-5 | Ethanol | 14 | 8.3 | 7.2 | 4.4 | |
| 75-05-8 | Acetonitrile | 5.7 | 0.83 | 3.4 | 0.49 | |
| 107-02-8 | Acrolein | ND | 3.3 | ND | 1.4 | |
| 67-64-1 | Acetone | 81 | 8.3 | 34 | 3.5 | |
| 75-69-4 | Trichlorofluoromethane | 1.1 | 0.83 | 0.20 | 0.15 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 8.3 | ND | 3.4 | |
| 107-13-1 | Acrylonitrile | ND | 0.83 | ND | 0.38 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.83 | ND | 0.21 | |
| 75-09-2 | Methylene Chloride | 1.0 | 0.83 | 0.30 | 0.24 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.83 | ND | 0.27 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.83 | ND | 0.11 | |
| 75-15-0 | Carbon Disulfide | 22 | 8.3 | 7.1 | 2.7 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.83 | ND | 0.21 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.83 | ND | 0.21 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.83 | ND | 0.23 | |
| 108-05-4 | Vinyl Acetate | ND | 8.3 | ND | 2.4 | |
| 78-93-3 | 2-Butanone (MEK) | 15 | 8.3 | 5.0 | 2.8 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-054
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01363

Date Collected: 4/20/13
 Date Received: 4/24/13
 Date Analyzed: 5/2/13
 Volume(s) Analyzed: 1.00 Liter(s)
 0.15 Liter(s)

Initial Pressure (psig): -3.70 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.66

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.83 | ND | 0.21 | |
| 141-78-6 | Ethyl Acetate | ND | 1.7 | ND | 0.46 | |
| 110-54-3 | n-Hexane | 110 | 0.83 | 31 | 0.24 | |
| 67-66-3 | Chloroform | ND | 0.83 | ND | 0.17 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.83 | ND | 0.28 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.83 | ND | 0.21 | |
| 71-55-6 | 1,1,1-Trichloroethane | 2.0 | 0.83 | 0.37 | 0.15 | |
| 71-43-2 | Benzene | 22 | 0.83 | 6.7 | 0.26 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.83 | ND | 0.13 | |
| 110-82-7 | Cyclohexane | 42 | 1.7 | 12 | 0.48 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.83 | ND | 0.18 | |
| 75-27-4 | Bromodichloromethane | ND | 0.83 | ND | 0.12 | |
| 79-01-6 | Trichloroethene | 28 | 0.83 | 5.2 | 0.15 | |
| 123-91-1 | 1,4-Dioxane | 6.0 | 0.83 | 1.7 | 0.23 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.7 | ND | 0.41 | |
| 142-82-5 | n-Heptane | 100 | 0.83 | 25 | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.83 | ND | 0.18 | |
| 108-10-1 | 4-Methyl-2-pentanone | 1.3 | 0.83 | 0.31 | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.83 | ND | 0.18 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.83 | ND | 0.15 | |
| 108-88-3 | Toluene | 230 | 5.5 | 62 | 1.5 | D |
| 591-78-6 | 2-Hexanone | ND | 0.83 | ND | 0.20 | |
| 124-48-1 | Dibromochloromethane | ND | 0.83 | ND | 0.097 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.83 | ND | 0.11 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.83 | ND | 0.17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-054
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01363

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)
0.15 Liter(s)

Initial Pressure (psig): -3.70 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.66

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 84 | 0.83 | 18 | 0.18 | |
| 127-18-4 | Tetrachloroethene | 2.9 | 0.83 | 0.42 | 0.12 | |
| 108-90-7 | Chlorobenzene | ND | 0.83 | ND | 0.18 | |
| 100-41-4 | Ethylbenzene | 7.3 | 0.83 | 1.7 | 0.19 | |
| 179601-23-1 | m,p-Xylenes | 33 | 1.7 | 7.5 | 0.38 | |
| 75-25-2 | Bromoform | ND | 0.83 | ND | 0.080 | |
| 100-42-5 | Styrene | 1.5 | 0.83 | 0.36 | 0.20 | |
| 95-47-6 | o-Xylene | 12 | 0.83 | 2.9 | 0.19 | |
| 111-84-2 | n-Nonane | 66 | 0.83 | 13 | 0.16 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.83 | ND | 0.12 | |
| 98-82-8 | Cumene | 2.0 | 0.83 | 0.40 | 0.17 | |
| 80-56-8 | alpha-Pinene | 2.2 | 0.83 | 0.40 | 0.15 | |
| 103-65-1 | n-Propylbenzene | 1.8 | 0.83 | 0.37 | 0.17 | |
| 622-96-8 | 4-Ethyltoluene | 1.9 | 0.83 | 0.39 | 0.17 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5.9 | 0.83 | 1.2 | 0.17 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 11 | 0.83 | 2.3 | 0.17 | |
| 100-44-7 | Benzyl Chloride | ND | 0.83 | ND | 0.16 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.83 | ND | 0.14 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.83 | ND | 0.14 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.83 | ND | 0.14 | |
| 5989-27-5 | d-Limonene | 5.0 | 0.83 | 0.89 | 0.15 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.83 | ND | 0.086 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.83 | ND | 0.11 | |
| 91-20-3 | Naphthalene | ND | 0.83 | ND | 0.16 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.83 | ND | 0.078 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-054
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00509

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.57

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 0.79 | ND | 0.46 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.79 | 0.43 | 0.16 | |
| 74-87-3 | Chloromethane | ND | 0.79 | ND | 0.38 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.79 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.79 | ND | 0.31 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.79 | ND | 0.35 | |
| 74-83-9 | Bromomethane | ND | 0.79 | ND | 0.20 | |
| 75-00-3 | Chloroethane | ND | 0.79 | ND | 0.30 | |
| 64-17-5 | Ethanol | 9.4 | 7.9 | 5.0 | 4.2 | |
| 75-05-8 | Acetonitrile | ND | 0.79 | ND | 0.47 | |
| 107-02-8 | Acrolein | ND | 3.1 | ND | 1.4 | |
| 67-64-1 | Acetone | 10 | 7.9 | 4.3 | 3.3 | |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.79 | 0.21 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.9 | ND | 3.2 | |
| 107-13-1 | Acrylonitrile | ND | 0.79 | ND | 0.36 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 75-09-2 | Methylene Chloride | 1.4 | 0.79 | 0.42 | 0.23 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.79 | ND | 0.25 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.79 | ND | 0.10 | |
| 75-15-0 | Carbon Disulfide | ND | 7.9 | ND | 2.5 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.79 | ND | 0.19 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.79 | ND | 0.22 | |
| 108-05-4 | Vinyl Acetate | ND | 7.9 | ND | 2.2 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 7.9 | ND | 2.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-054
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00509

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.57

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 141-78-6 | Ethyl Acetate | ND | 1.6 | ND | 0.44 | |
| 110-54-3 | n-Hexane | ND | 0.79 | ND | 0.22 | |
| 67-66-3 | Chloroform | ND | 0.79 | ND | 0.16 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.79 | ND | 0.27 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.79 | ND | 0.19 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.79 | ND | 0.14 | |
| 71-43-2 | Benzene | ND | 0.79 | ND | 0.25 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.79 | ND | 0.12 | |
| 110-82-7 | Cyclohexane | ND | 1.6 | ND | 0.46 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.79 | ND | 0.17 | |
| 75-27-4 | Bromodichloromethane | ND | 0.79 | ND | 0.12 | |
| 79-01-6 | Trichloroethene | 2.0 | 0.79 | 0.37 | 0.15 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.79 | ND | 0.22 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.6 | ND | 0.38 | |
| 142-82-5 | n-Heptane | ND | 0.79 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.79 | ND | 0.17 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.79 | ND | 0.19 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.79 | ND | 0.17 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.79 | ND | 0.14 | |
| 108-88-3 | Toluene | 4.3 | 0.79 | 1.2 | 0.21 | |
| 591-78-6 | 2-Hexanone | ND | 0.79 | ND | 0.19 | |
| 124-48-1 | Dibromochloromethane | ND | 0.79 | ND | 0.092 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.79 | ND | 0.10 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.79 | ND | 0.17 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-054
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00509

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.57

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.79 | ND | 0.17 | |
| 127-18-4 | Tetrachloroethene | ND | 0.79 | ND | 0.12 | |
| 108-90-7 | Chlorobenzene | ND | 0.79 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | 1.4 | 0.79 | 0.32 | 0.18 | |
| 179601-23-1 | m,p-Xylenes | 3.1 | 1.6 | 0.72 | 0.36 | |
| 75-25-2 | Bromoform | ND | 0.79 | ND | 0.076 | |
| 100-42-5 | Styrene | 3.4 | 0.79 | 0.79 | 0.18 | |
| 95-47-6 | o-Xylene | 1.0 | 0.79 | 0.23 | 0.18 | |
| 111-84-2 | n-Nonane | ND | 0.79 | ND | 0.15 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.79 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.79 | ND | 0.16 | |
| 80-56-8 | alpha-Pinene | 1.3 | 0.79 | 0.23 | 0.14 | |
| 103-65-1 | n-Propylbenzene | ND | 0.79 | ND | 0.16 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.79 | ND | 0.16 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.79 | ND | 0.16 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.79 | ND | 0.16 | |
| 100-44-7 | Benzyl Chloride | ND | 0.79 | ND | 0.15 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.79 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | 1.5 | 0.79 | 0.26 | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.79 | ND | 0.081 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.79 | ND | 0.11 | |
| 91-20-3 | Naphthalene | ND | 0.79 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.79 | ND | 0.074 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-055
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00676

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2 - 5/3/13
Volume(s) Analyzed: 0.10 Liter(s)
0.060 Liter(s)

Initial Pressure (psig): -3.20 Final Pressure (psig): 3.61

Canister Dilution Factor: 1.59

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | 13 | 8.0 | 7.6 | 4.6 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 8.0 | ND | 1.6 | |
| 74-87-3 | Chloromethane | ND | 8.0 | ND | 3.9 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 8.0 | ND | 1.1 | |
| 75-01-4 | Vinyl Chloride | ND | 8.0 | ND | 3.1 | |
| 106-99-0 | 1,3-Butadiene | ND | 8.0 | ND | 3.6 | |
| 74-83-9 | Bromomethane | ND | 8.0 | ND | 2.0 | |
| 75-00-3 | Chloroethane | ND | 8.0 | ND | 3.0 | |
| 64-17-5 | Ethanol | 81 | 80 | 43 | 42 | |
| 75-05-8 | Acetonitrile | ND | 8.0 | ND | 4.7 | |
| 107-02-8 | Acrolein | ND | 32 | ND | 14 | |
| 67-64-1 | Acetone | 360 | 80 | 150 | 33 | |
| 75-69-4 | Trichlorofluoromethane | ND | 8.0 | ND | 1.4 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 80 | ND | 32 | |
| 107-13-1 | Acrylonitrile | ND | 8.0 | ND | 3.7 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 8.0 | ND | 2.0 | |
| 75-09-2 | Methylene Chloride | ND | 8.0 | ND | 2.3 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 8.0 | ND | 2.5 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 8.0 | ND | 1.0 | |
| 75-15-0 | Carbon Disulfide | ND | 80 | ND | 26 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 8.0 | ND | 2.0 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 8.0 | ND | 2.0 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 8.0 | ND | 2.2 | |
| 108-05-4 | Vinyl Acetate | ND | 80 | ND | 23 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 80 | ND | 27 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-055
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00676

Date Collected: 4/20/13
 Date Received: 4/24/13
 Date Analyzed: 5/2 - 5/3/13
 Volume(s) Analyzed: 0.10 Liter(s)
 0.060 Liter(s)

Initial Pressure (psig): -3.20 Final Pressure (psig): 3.61

Canister Dilution Factor: 1.59

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | 8.4 | 8.0 | 2.1 | 2.0 | |
| 141-78-6 | Ethyl Acetate | ND | 16 | ND | 4.4 | |
| 110-54-3 | n-Hexane | 1,500 | 8.0 | 430 | 2.3 | |
| 67-66-3 | Chloroform | ND | 8.0 | ND | 1.6 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 8.0 | ND | 2.7 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 8.0 | ND | 2.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 55 | 8.0 | 10 | 1.5 | |
| 71-43-2 | Benzene | 120 | 8.0 | 36 | 2.5 | |
| 56-23-5 | Carbon Tetrachloride | ND | 8.0 | ND | 1.3 | |
| 110-82-7 | Cyclohexane | 1,200 | 16 | 350 | 4.6 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 8.0 | ND | 1.7 | |
| 75-27-4 | Bromodichloromethane | ND | 8.0 | ND | 1.2 | |
| 79-01-6 | Trichloroethene | 120 | 8.0 | 22 | 1.5 | |
| 123-91-1 | 1,4-Dioxane | ND | 8.0 | ND | 2.2 | |
| 80-62-6 | Methyl Methacrylate | ND | 16 | ND | 3.9 | |
| 142-82-5 | n-Heptane | 1,500 | 13 | 370 | 3.2 | D |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 8.0 | ND | 1.8 | |
| 108-10-1 | 4-Methyl-2-pentanone | 45 | 8.0 | 11 | 1.9 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 8.0 | ND | 1.8 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 8.0 | ND | 1.5 | |
| 108-88-3 | Toluene | 390 | 8.0 | 100 | 2.1 | |
| 591-78-6 | 2-Hexanone | ND | 8.0 | ND | 1.9 | |
| 124-48-1 | Dibromochloromethane | ND | 8.0 | ND | 0.93 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 8.0 | ND | 1.0 | |
| 123-86-4 | n-Butyl Acetate | ND | 8.0 | ND | 1.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: SS-8hr-055
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00676

Date Collected: 4/20/13
 Date Received: 4/24/13
 Date Analyzed: 5/2 - 5/3/13
 Volume(s) Analyzed: 0.10 Liter(s)
 0.060 Liter(s)

Initial Pressure (psig): -3.20 Final Pressure (psig): 3.61

Canister Dilution Factor: 1.59

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | 1,600 | 8.0 | 350 | 1.7 | |
| 127-18-4 | Tetrachloroethene | ND | 8.0 | ND | 1.2 | |
| 108-90-7 | Chlorobenzene | ND | 8.0 | ND | 1.7 | |
| 100-41-4 | Ethylbenzene | 31 | 8.0 | 7.2 | 1.8 | |
| 179601-23-1 | m,p-Xylenes | 130 | 16 | 30 | 3.7 | |
| 75-25-2 | Bromoform | ND | 8.0 | ND | 0.77 | |
| 100-42-5 | Styrene | ND | 8.0 | ND | 1.9 | |
| 95-47-6 | o-Xylene | 37 | 8.0 | 8.5 | 1.8 | |
| 111-84-2 | n-Nonane | 570 | 8.0 | 110 | 1.5 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 8.0 | ND | 1.2 | |
| 98-82-8 | Cumene | ND | 8.0 | ND | 1.6 | |
| 80-56-8 | alpha-Pinene | 18 | 8.0 | 3.2 | 1.4 | |
| 103-65-1 | n-Propylbenzene | ND | 8.0 | ND | 1.6 | |
| 622-96-8 | 4-Ethyltoluene | ND | 8.0 | ND | 1.6 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 8.0 | ND | 1.6 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 8.0 | ND | 1.6 | |
| 100-44-7 | Benzyl Chloride | ND | 8.0 | ND | 1.5 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 8.0 | ND | 1.3 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 8.0 | ND | 1.3 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 8.0 | ND | 1.3 | |
| 5989-27-5 | d-Limonene | ND | 8.0 | ND | 1.4 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 8.0 | ND | 0.82 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 8.0 | ND | 1.1 | |
| 91-20-3 | Naphthalene | ND | 8.0 | ND | 1.5 | |
| 87-68-3 | Hexachlorobutadiene | ND | 8.0 | ND | 0.75 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-055
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P1301748-014

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01414

Date Collected: 4/20/13
 Date Received: 4/24/13
 Date Analyzed: 5/2/13
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 3.77

Canister Dilution Factor: 1.51

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|-------------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.76 | ND | 0.44 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.3 | 0.76 | 0.46 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.76 | ND | 0.37 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.76 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.76 | ND | 0.30 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.76 | ND | 0.34 | |
| 74-83-9 | Bromomethane | ND | 0.76 | ND | 0.19 | |
| 75-00-3 | Chloroethane | ND | 0.76 | ND | 0.29 | |
| 64-17-5 | Ethanol | 8.0 | 7.6 | 4.3 | 4.0 | |
| 75-05-8 | Acetonitrile | ND | 0.76 | ND | 0.45 | |
| 107-02-8 | Acrolein | ND | 3.0 | ND | 1.3 | |
| 67-64-1 | Acetone | 8.4 | 7.6 | 3.5 | 3.2 | |
| 75-69-4 | Trichlorofluoromethane | 1.1 | 0.76 | 0.20 | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.6 | ND | 3.1 | |
| 107-13-1 | Acrylonitrile | ND | 0.76 | ND | 0.35 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | 1.2 | 0.76 | 0.35 | 0.22 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.76 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.76 | ND | 0.099 | |
| 75-15-0 | Carbon Disulfide | ND | 7.6 | ND | 2.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.76 | ND | 0.19 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.76 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.6 | ND | 2.1 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 7.6 | ND | 2.6 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-055
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01414

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 3.77

Canister Dilution Factor: 1.51

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 141-78-6 | Ethyl Acetate | ND | 1.5 | ND | 0.42 | |
| 110-54-3 | n-Hexane | ND | 0.76 | ND | 0.21 | |
| 67-66-3 | Chloroform | ND | 0.76 | ND | 0.15 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.76 | ND | 0.26 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.76 | ND | 0.19 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.76 | ND | 0.14 | |
| 71-43-2 | Benzene | ND | 0.76 | ND | 0.24 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.76 | ND | 0.12 | |
| 110-82-7 | Cyclohexane | ND | 1.5 | ND | 0.44 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.76 | ND | 0.16 | |
| 75-27-4 | Bromodichloromethane | ND | 0.76 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 1.6 | 0.76 | 0.29 | 0.14 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.76 | ND | 0.21 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.5 | ND | 0.37 | |
| 142-82-5 | n-Heptane | ND | 0.76 | ND | 0.18 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.76 | ND | 0.17 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.76 | ND | 0.18 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.76 | ND | 0.17 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.76 | ND | 0.14 | |
| 108-88-3 | Toluene | 2.0 | 0.76 | 0.54 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.76 | ND | 0.18 | |
| 124-48-1 | Dibromochloromethane | ND | 0.76 | ND | 0.089 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.76 | ND | 0.098 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.76 | ND | 0.16 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-055
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01414

Date Collected: 4/20/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 3.77

Canister Dilution Factor: 1.51

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.76 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | ND | 0.76 | ND | 0.11 | |
| 108-90-7 | Chlorobenzene | ND | 0.76 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | ND | 0.76 | ND | 0.17 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.76 | ND | 0.073 | |
| 100-42-5 | Styrene | 1.2 | 0.76 | 0.28 | 0.18 | |
| 95-47-6 | o-Xylene | ND | 0.76 | ND | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.76 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.76 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.76 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | ND | 0.76 | ND | 0.14 | |
| 103-65-1 | n-Propylbenzene | ND | 0.76 | ND | 0.15 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.76 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.76 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.76 | ND | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 0.76 | ND | 0.15 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | 1.4 | 0.76 | 0.25 | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.76 | ND | 0.078 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.76 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.76 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.76 | ND | 0.071 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P130502-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 0.50 | ND | 0.29 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | ND | 0.10 | |
| 74-87-3 | Chloromethane | ND | 0.50 | ND | 0.24 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | ND | 0.072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.50 | ND | 0.23 | |
| 74-83-9 | Bromomethane | ND | 0.50 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.50 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 0.50 | ND | 0.30 | |
| 107-02-8 | Acrolein | ND | 2.0 | ND | 0.87 | |
| 67-64-1 | Acetone | ND | 5.0 | ND | 2.1 | |
| 75-69-4 | Trichlorofluoromethane | ND | 0.50 | ND | 0.089 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 5.0 | ND | 2.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | ND | 0.23 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | ND | 0.14 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.50 | ND | 0.16 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.50 | ND | 0.065 | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | ND | 1.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.50 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | ND | 1.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P130502-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.50 | ND | 0.14 | |
| 67-66-3 | Chloroform | ND | 0.50 | ND | 0.10 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.50 | ND | 0.17 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.50 | ND | 0.080 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | ND | 0.075 | |
| 79-01-6 | Trichloroethene | ND | 0.50 | ND | 0.093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.50 | ND | 0.12 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | ND | 0.12 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 108-88-3 | Toluene | ND | 0.50 | ND | 0.13 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | ND | 0.12 | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | ND | 0.059 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | ND | 0.065 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.50 | ND | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P130502-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.50 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.50 | ND | 0.048 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.50 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.50 | ND | 0.095 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 0.073 | |
| 98-82-8 | Cumene | ND | 0.50 | ND | 0.10 | |
| 80-56-8 | alpha-Pinene | ND | 0.50 | ND | 0.090 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | ND | 0.10 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | ND | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 100-44-7 | Benzyl Chloride | ND | 0.50 | ND | 0.097 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | ND | 0.052 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 0.067 | |
| 91-20-3 | Naphthalene | ND | 0.50 | ND | 0.095 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | ND | 0.047 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P130502-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 0.50 | ND | 0.29 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | ND | 0.10 | |
| 74-87-3 | Chloromethane | ND | 0.50 | ND | 0.24 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | ND | 0.072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.50 | ND | 0.23 | |
| 74-83-9 | Bromomethane | ND | 0.50 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.50 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 0.50 | ND | 0.30 | |
| 107-02-8 | Acrolein | ND | 2.0 | ND | 0.87 | |
| 67-64-1 | Acetone | ND | 5.0 | ND | 2.1 | |
| 75-69-4 | Trichlorofluoromethane | ND | 0.50 | ND | 0.089 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 5.0 | ND | 2.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | ND | 0.23 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | ND | 0.14 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.50 | ND | 0.16 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.50 | ND | 0.065 | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | ND | 1.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.50 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | ND | 1.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P130502-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.50 | ND | 0.14 | |
| 67-66-3 | Chloroform | ND | 0.50 | ND | 0.10 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 0.50 | ND | 0.17 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.50 | ND | 0.080 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | ND | 0.075 | |
| 79-01-6 | Trichloroethene | ND | 0.50 | ND | 0.093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.50 | ND | 0.12 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | ND | 0.12 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 108-88-3 | Toluene | ND | 0.50 | ND | 0.13 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | ND | 0.12 | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | ND | 0.059 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | ND | 0.065 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.50 | ND | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Method Blank
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P130502-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.50 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.50 | ND | 0.048 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.50 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.50 | ND | 0.095 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 0.073 | |
| 98-82-8 | Cumene | ND | 0.50 | ND | 0.10 | |
| 80-56-8 | alpha-Pinene | ND | 0.50 | ND | 0.090 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | ND | 0.10 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | ND | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 100-44-7 | Benzyl Chloride | ND | 0.50 | ND | 0.097 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | ND | 0.052 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 0.067 | |
| 91-20-3 | Naphthalene | ND | 0.50 | ND | 0.095 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | ND | 0.047 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Energy Solutions, Inc.
Client Project ID: Leica / 137015

CAS Project ID: P1301748

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 4/19 - 4/20/13
 Date(s) Received: 4/24/13
 Date(s) Analyzed: 5/2 - 5/3/13

| Client Sample ID | CAS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|--------------------|-----------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P130502-MB | 101 | 96 | 104 | 70-130 | |
| Method Blank | P130502-MB | 102 | 98 | 109 | 70-130 | |
| Lab Control Sample | P130502-LCS | 103 | 97 | 104 | 70-130 | |
| Lab Control Sample | P130502-LCS | 101 | 96 | 107 | 70-130 | |
| SB-3 | P1301748-001 | 100 | 96 | 104 | 70-130 | |
| IA-3 | P1301748-002 | 101 | 97 | 106 | 70-130 | |
| SS-8hr-051 | P1301748-003 | 104 | 89 | 97 | 70-130 | |
| SS-8hr-052 | P1301748-004 | 102 | 95 | 103 | 70-130 | |
| IA-8hr-051 | P1301748-005 | 103 | 98 | 104 | 70-130 | |
| IA-8hr-052 | P1301748-006 | 101 | 96 | 106 | 70-130 | |
| IA-8hr-052 | P1301748-006DUP | 103 | 98 | 105 | 70-130 | |
| IA-8hr-056 | P1301748-008 | 103 | 97 | 107 | 70-130 | |
| SS-8hr-053 | P1301748-009 | 103 | 93 | 101 | 70-130 | |
| IA-8hr-053 | P1301748-010 | 103 | 96 | 106 | 70-130 | |
| SS-8hr-054 | P1301748-011 | 102 | 92 | 101 | 70-130 | |
| IA-8hr-054 | P1301748-012 | 102 | 97 | 105 | 70-130 | |
| SS-8hr-055 | P1301748-013 | 112 | 91 | 93 | 70-130 | |
| IA-8hr-055 | P1301748-014 | 101 | 98 | 106 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P130502-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/02/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 115-07-1 | Propene | 204 | 215 | 105 | 58-139 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 202 | 185 | 92 | 63-115 | |
| 74-87-3 | Chloromethane | 196 | 192 | 98 | 58-122 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 206 | 188 | 91 | 65-115 | |
| 75-01-4 | Vinyl Chloride | 200 | 197 | 99 | 64-122 | |
| 106-99-0 | 1,3-Butadiene | 210 | 213 | 101 | 57-141 | |
| 74-83-9 | Bromomethane | 200 | 177 | 89 | 68-122 | |
| 75-00-3 | Chloroethane | 202 | 191 | 95 | 66-120 | |
| 64-17-5 | Ethanol | 958 | 1040 | 109 | 58-126 | |
| 75-05-8 | Acetonitrile | 202 | 229 | 113 | 64-136 | |
| 107-02-8 | Acrolein | 204 | 237 | 116 | 58-129 | |
| 67-64-1 | Acetone | 1,040 | 1040 | 100 | 60-114 | |
| 75-69-4 | Trichlorofluoromethane | 210 | 183 | 87 | 62-107 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 396 | 398 | 101 | 54-118 | |
| 107-13-1 | Acrylonitrile | 206 | 245 | 119 | 72-143 | |
| 75-35-4 | 1,1-Dichloroethene | 218 | 212 | 97 | 69-119 | |
| 75-09-2 | Methylene Chloride | 212 | 193 | 91 | 64-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 214 | 224 | 105 | 59-131 | |
| 76-13-1 | Trichlorotrifluoroethane | 212 | 201 | 95 | 69-117 | |
| 75-15-0 | Carbon Disulfide | 208 | 194 | 93 | 65-115 | |
| 156-60-5 | trans-1,2-Dichloroethene | 202 | 211 | 104 | 70-126 | |
| 75-34-3 | 1,1-Dichloroethane | 206 | 203 | 99 | 68-116 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 204 | 208 | 102 | 69-120 | |
| 108-05-4 | Vinyl Acetate | 988 | 1220 | 123 | 58-160 | |
| 78-93-3 | 2-Butanone (MEK) | 212 | 232 | 109 | 70-127 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P130502-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/02/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|-------------------|------|
| | | | | | Acceptance Limits | |
| 156-59-2 | cis-1,2-Dichloroethene | 214 | 217 | 101 | 70-119 | |
| 141-78-6 | Ethyl Acetate | 412 | 472 | 115 | 72-129 | |
| 110-54-3 | n-Hexane | 206 | 209 | 101 | 63-115 | |
| 67-66-3 | Chloroform | 222 | 211 | 95 | 68-110 | |
| 109-99-9 | Tetrahydrofuran (THF) | 208 | 203 | 98 | 60-126 | |
| 107-06-2 | 1,2-Dichloroethane | 208 | 214 | 103 | 69-118 | |
| 71-55-6 | 1,1,1-Trichloroethane | 204 | 201 | 99 | 68-120 | |
| 71-43-2 | Benzene | 208 | 196 | 94 | 69-117 | |
| 56-23-5 | Carbon Tetrachloride | 212 | 207 | 98 | 65-134 | |
| 110-82-7 | Cyclohexane | 402 | 393 | 98 | 69-114 | |
| 78-87-5 | 1,2-Dichloropropane | 204 | 203 | 100 | 70-116 | |
| 75-27-4 | Bromodichloromethane | 204 | 211 | 103 | 71-126 | |
| 79-01-6 | Trichloroethene | 198 | 199 | 101 | 71-119 | |
| 123-91-1 | 1,4-Dioxane | 206 | 220 | 107 | 72-126 | |
| 80-62-6 | Methyl Methacrylate | 414 | 470 | 114 | 75-136 | |
| 142-82-5 | n-Heptane | 202 | 209 | 103 | 70-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 196 | 214 | 109 | 75-132 | |
| 108-10-1 | 4-Methyl-2-pentanone | 210 | 224 | 107 | 70-133 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 218 | 252 | 116 | 78-136 | |
| 79-00-5 | 1,1,2-Trichloroethane | 202 | 205 | 101 | 72-119 | |
| 108-88-3 | Toluene | 208 | 186 | 89 | 65-116 | |
| 591-78-6 | 2-Hexanone | 228 | 231 | 101 | 62-132 | |
| 124-48-1 | Dibromochloromethane | 216 | 214 | 99 | 66-140 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 210 | 101 | 69-130 | |
| 123-86-4 | n-Butyl Acetate | 228 | 235 | 103 | 63-136 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P130502-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/02/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 111-65-9 | n-Octane | 206 | 198 | 96 | 66-118 | |
| 127-18-4 | Tetrachloroethene | 190 | 169 | 89 | 63-123 | |
| 108-90-7 | Chlorobenzene | 208 | 186 | 89 | 66-118 | |
| 100-41-4 | Ethylbenzene | 206 | 191 | 93 | 66-119 | |
| 179601-23-1 | m,p-Xylenes | 412 | 375 | 91 | 64-118 | |
| 75-25-2 | Bromoform | 216 | 212 | 98 | 64-140 | |
| 100-42-5 | Styrene | 208 | 199 | 96 | 68-132 | |
| 95-47-6 | o-Xylene | 200 | 186 | 93 | 65-120 | |
| 111-84-2 | n-Nonane | 202 | 196 | 97 | 64-117 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 198 | 188 | 95 | 63-128 | |
| 98-82-8 | Cumene | 196 | 180 | 92 | 65-121 | |
| 80-56-8 | alpha-Pinene | 192 | 174 | 91 | 66-123 | |
| 103-65-1 | n-Propylbenzene | 198 | 183 | 92 | 65-121 | |
| 622-96-8 | 4-Ethyltoluene | 204 | 181 | 89 | 64-122 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 186 | 89 | 64-125 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 200 | 195 | 98 | 64-131 | |
| 100-44-7 | Benzyl Chloride | 206 | 196 | 95 | 67-146 | |
| 541-73-1 | 1,3-Dichlorobenzene | 206 | 192 | 93 | 64-130 | |
| 106-46-7 | 1,4-Dichlorobenzene | 212 | 187 | 88 | 61-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 204 | 180 | 88 | 63-126 | |
| 5989-27-5 | d-Limonene | 206 | 196 | 95 | 62-133 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 202 | 198 | 98 | 62-155 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 200 | 174 | 87 | 59-146 | |
| 91-20-3 | Naphthalene | 178 | 150 | 84 | 56-143 | |
| 87-68-3 | Hexachlorobutadiene | 208 | 168 | 81 | 58-133 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P130502-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/02/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 115-07-1 | Propene | 204 | 199 | 98 | 58-139 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 202 | 184 | 91 | 63-115 | |
| 74-87-3 | Chloromethane | 196 | 189 | 96 | 58-122 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 206 | 190 | 92 | 65-115 | |
| 75-01-4 | Vinyl Chloride | 200 | 196 | 98 | 64-122 | |
| 106-99-0 | 1,3-Butadiene | 210 | 215 | 102 | 57-141 | |
| 74-83-9 | Bromomethane | 200 | 178 | 89 | 68-122 | |
| 75-00-3 | Chloroethane | 202 | 189 | 94 | 66-120 | |
| 64-17-5 | Ethanol | 958 | 1030 | 108 | 58-126 | |
| 75-05-8 | Acetonitrile | 202 | 228 | 113 | 64-136 | |
| 107-02-8 | Acrolein | 204 | 232 | 114 | 58-129 | |
| 67-64-1 | Acetone | 1,040 | 1040 | 100 | 60-114 | |
| 75-69-4 | Trichlorofluoromethane | 210 | 185 | 88 | 62-107 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 396 | 428 | 108 | 54-118 | |
| 107-13-1 | Acrylonitrile | 206 | 244 | 118 | 72-143 | |
| 75-35-4 | 1,1-Dichloroethene | 218 | 213 | 98 | 69-119 | |
| 75-09-2 | Methylene Chloride | 212 | 193 | 91 | 64-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 214 | 225 | 105 | 59-131 | |
| 76-13-1 | Trichlorotrifluoroethane | 212 | 201 | 95 | 69-117 | |
| 75-15-0 | Carbon Disulfide | 208 | 195 | 94 | 65-115 | |
| 156-60-5 | trans-1,2-Dichloroethene | 202 | 210 | 104 | 70-126 | |
| 75-34-3 | 1,1-Dichloroethane | 206 | 202 | 98 | 68-116 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 204 | 208 | 102 | 69-120 | |
| 108-05-4 | Vinyl Acetate | 988 | 1220 | 123 | 58-160 | |
| 78-93-3 | 2-Butanone (MEK) | 212 | 233 | 110 | 70-127 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P130502-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/02/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 156-59-2 | cis-1,2-Dichloroethene | 214 | 216 | 101 | 70-119 | |
| 141-78-6 | Ethyl Acetate | 412 | 470 | 114 | 72-129 | |
| 110-54-3 | n-Hexane | 206 | 208 | 101 | 63-115 | |
| 67-66-3 | Chloroform | 222 | 210 | 95 | 68-110 | |
| 109-99-9 | Tetrahydrofuran (THF) | 208 | 203 | 98 | 60-126 | |
| 107-06-2 | 1,2-Dichloroethane | 208 | 213 | 102 | 69-118 | |
| 71-55-6 | 1,1,1-Trichloroethane | 204 | 202 | 99 | 68-120 | |
| 71-43-2 | Benzene | 208 | 196 | 94 | 69-117 | |
| 56-23-5 | Carbon Tetrachloride | 212 | 209 | 99 | 65-134 | |
| 110-82-7 | Cyclohexane | 402 | 391 | 97 | 69-114 | |
| 78-87-5 | 1,2-Dichloropropane | 204 | 202 | 99 | 70-116 | |
| 75-27-4 | Bromodichloromethane | 204 | 213 | 104 | 71-126 | |
| 79-01-6 | Trichloroethene | 198 | 197 | 99 | 71-119 | |
| 123-91-1 | 1,4-Dioxane | 206 | 221 | 107 | 72-126 | |
| 80-62-6 | Methyl Methacrylate | 414 | 476 | 115 | 75-136 | |
| 142-82-5 | n-Heptane | 202 | 208 | 103 | 70-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 196 | 214 | 109 | 75-132 | |
| 108-10-1 | 4-Methyl-2-pentanone | 210 | 223 | 106 | 70-133 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 218 | 253 | 116 | 78-136 | |
| 79-00-5 | 1,1,2-Trichloroethane | 202 | 205 | 101 | 72-119 | |
| 108-88-3 | Toluene | 208 | 186 | 89 | 65-116 | |
| 591-78-6 | 2-Hexanone | 228 | 227 | 100 | 62-132 | |
| 124-48-1 | Dibromochloromethane | 216 | 212 | 98 | 66-140 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 211 | 101 | 69-130 | |
| 123-86-4 | n-Butyl Acetate | 228 | 230 | 101 | 63-136 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Leica / 137015

CAS Project ID: P1301748
 CAS Sample ID: P130502-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/02/13
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | CAS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 111-65-9 | n-Octane | 206 | 196 | 95 | 66-118 | |
| 127-18-4 | Tetrachloroethene | 190 | 169 | 89 | 63-123 | |
| 108-90-7 | Chlorobenzene | 208 | 185 | 89 | 66-118 | |
| 100-41-4 | Ethylbenzene | 206 | 191 | 93 | 66-119 | |
| 179601-23-1 | m,p-Xylenes | 412 | 372 | 90 | 64-118 | |
| 75-25-2 | Bromoform | 216 | 210 | 97 | 64-140 | |
| 100-42-5 | Styrene | 208 | 196 | 94 | 68-132 | |
| 95-47-6 | o-Xylene | 200 | 184 | 92 | 65-120 | |
| 111-84-2 | n-Nonane | 202 | 194 | 96 | 64-117 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 198 | 187 | 94 | 63-128 | |
| 98-82-8 | Cumene | 196 | 179 | 91 | 65-121 | |
| 80-56-8 | alpha-Pinene | 192 | 172 | 90 | 66-123 | |
| 103-65-1 | n-Propylbenzene | 198 | 183 | 92 | 65-121 | |
| 622-96-8 | 4-Ethyltoluene | 204 | 181 | 89 | 64-122 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 187 | 90 | 64-125 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 200 | 196 | 98 | 64-131 | |
| 100-44-7 | Benzyl Chloride | 206 | 197 | 96 | 67-146 | |
| 541-73-1 | 1,3-Dichlorobenzene | 206 | 194 | 94 | 64-130 | |
| 106-46-7 | 1,4-Dichlorobenzene | 212 | 190 | 90 | 61-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 204 | 183 | 90 | 63-126 | |
| 5989-27-5 | d-Limonene | 206 | 194 | 94 | 62-133 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 202 | 204 | 101 | 62-155 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 200 | 188 | 94 | 59-146 | |
| 91-20-3 | Naphthalene | 178 | 165 | 93 | 56-143 | |
| 87-68-3 | Hexachlorobutadiene | 208 | 180 | 87 | 58-133 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-006DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01159

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74

Final Pressure (psig): 3.66

Canister Dilution Factor: 1.84

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|--|-------------------|-------|-------------------------|-------|------------------------------|-------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Propene | 26.0 | 15.1 | 26.0 | 15.1 | 26 | 0 | 25 | |
| Dichlorodifluoromethane (CFC 12) | 2.37 | 0.479 | 2.32 | 0.469 | 2.345 | 2 | 25 | |
| Chloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Butadiene | 1.04 | 0.471 | 1.05 | 0.473 | 1.045 | 1 | 25 | |
| Bromomethane | ND | ND | ND | ND | - | - | 25 | |
| Chloroethane | ND | ND | ND | ND | - | - | 25 | |
| Ethanol | 22.3 | 11.8 | 21.4 | 11.4 | 21.85 | 4 | 25 | |
| Acetonitrile | ND | ND | ND | ND | - | - | 25 | |
| Acrolein | ND | ND | ND | ND | - | - | 25 | |
| Acetone | 25.1 | 10.6 | 25.2 | 10.6 | 25.15 | 0.4 | 25 | |
| Trichlorofluoromethane | 1.25 | 0.222 | 1.25 | 0.222 | 1.25 | 0 | 25 | |
| 2-Propanol (Isopropyl Alcohol) | ND | ND | ND | ND | - | - | 25 | |
| Acrylonitrile | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| Methylene Chloride | 4.65 | 1.34 | 4.66 | 1.34 | 4.655 | 0.2 | 25 | |
| 3-Chloro-1-propene (Allyl Chloride) | ND | ND | ND | ND | - | - | 25 | |
| Trichlorotrifluoroethane | ND | ND | ND | ND | - | - | 25 | |
| Carbon Disulfide | ND | ND | ND | ND | - | - | 25 | |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Methyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Acetate | ND | ND | ND | ND | - | - | 25 | |
| 2-Butanone (MEK) | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-006DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01159

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74

Final Pressure (psig): 3.66

Canister Dilution Factor: 1.84

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|---------------------------|-------------------|-------|-------------------------|-------|------------------------------|------------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| Ethyl Acetate | 2.83 | 0.787 | 2.80 | 0.777 | 2.815 | 1 | 25 | |
| n-Hexane | 2.34 | 0.665 | 2.31 | 0.657 | 2.325 | 1 | 25 | |
| Chloroform | ND | ND | ND | ND | - | - | 25 | |
| Tetrahydrofuran (THF) | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Benzene | 1.20 | 0.376 | 1.21 | 0.380 | 1.205 | 0.8 | 25 | |
| Carbon Tetrachloride | ND | ND | ND | ND | - | - | 25 | |
| Cyclohexane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloropropane | ND | ND | ND | ND | - | - | 25 | |
| Bromodichloromethane | ND | ND | ND | ND | - | - | 25 | |
| Trichloroethene | 3.13 | 0.583 | 3.26 | 0.607 | 3.195 | 4 | 25 | |
| 1,4-Dioxane | ND | ND | ND | ND | - | - | 25 | |
| Methyl Methacrylate | 5.47 | 1.34 | 5.56 | 1.36 | 5.515 | 2 | 25 | |
| n-Heptane | 1.47 | 0.359 | 1.52 | 0.370 | 1.495 | 3 | 25 | |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 4-Methyl-2-pentanone | ND | ND | ND | ND | - | - | 25 | |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Toluene | 8.87 | 2.35 | 9.16 | 2.43 | 9.015 | 3 | 25 | |
| 2-Hexanone | ND | ND | ND | ND | - | - | 25 | |
| Dibromochloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromoethane | ND | ND | ND | ND | - | - | 25 | |
| n-Butyl Acetate | 3.46 | 0.728 | 3.49 | 0.735 | 3.475 | 0.9 | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Energy Solutions, Inc.
Client Sample ID: IA-8hr-052
Client Project ID: Leica / 137015

CAS Project ID: P1301748
CAS Sample ID: P1301748-006DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01159

Date Collected: 4/19/13
Date Received: 4/24/13
Date Analyzed: 5/2/13
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74

Final Pressure (psig): 3.66

Canister Dilution Factor: 1.84

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-----------------------------|-------------------|-------|-------------------------|-------|------------------------------|------------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| n-Octane | ND | ND | ND | ND | - | - | 25 | |
| Tetrachloroethene | ND | ND | ND | ND | - | - | 25 | |
| Chlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Ethylbenzene | 3.03 | 0.699 | 3.08 | 0.710 | 3.055 | 2 | 25 | |
| m,p-Xylenes | 6.45 | 1.48 | 6.51 | 1.50 | 6.48 | 0.9 | 25 | |
| Bromoform | ND | ND | ND | ND | - | - | 25 | |
| Styrene | 9.99 | 2.35 | 10.2 | 2.39 | 10.095 | 2 | 25 | |
| o-Xylene | 2.34 | 0.540 | 2.39 | 0.551 | 2.365 | 2 | 25 | |
| n-Nonane | ND | ND | ND | ND | - | - | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | - | - | 25 | |
| Cumene | ND | ND | ND | ND | - | - | 25 | |
| alpha-Pinene | 8.24 | 1.48 | 8.37 | 1.50 | 8.305 | 2 | 25 | |
| n-Propylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 4-Ethyltoluene | ND | ND | ND | ND | - | - | 25 | |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trimethylbenzene | 1.07 | 0.217 | 1.16 | 0.235 | 1.115 | 8 | 25 | |
| Benzyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| d-Limonene | 1.42 | 0.255 | 1.41 | 0.254 | 1.415 | 0.7 | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Naphthalene | ND | ND | ND | ND | - | - | 25 | |
| Hexachlorobutadiene | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.



May 08, 2013

Service Request No: R1302808

Mr. Robert McPeak
Energy Solutions, Inc.
100 Mill Plain Rd
2nd Floor Mailbox 106
Danbury, CT 06811

Laboratory Results for: Leica Air 137015

Dear Mr. McPeak:

Enclosed are the results of the sample(s) submitted to our laboratory on April 23, 2013. For your reference, these analyses have been assigned our service request number **R1302808**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Karen.Bunker@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Karen Bunker
Project Manager

Page 1 of 11

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1302808

Lab ID
R1302808-001

Client ID
OA-01

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.



Rochester Lab ID # for State Certifications¹

| | | |
|-------------------------|-----------------------|-------------------------|
| NELAP Accredited | Maine ID #NY0032 | New Hampshire ID # |
| Connecticut ID # PH0556 | Nebraska Accredited | 294100 A/B |
| Delaware Accredited | Nevada ID # NY-00032 | North Carolina #676 |
| DoD ELAP #65817 | New Jersey ID # NY004 | Pennsylvania ID# 68-786 |
| Florida ID # E87674 | New York ID # 10145 | Rhode Island ID # 158 |
| Illinois ID #200047 | | Virginia #460167 |

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://alsglobal.com/environmental/laboratories/rochester-environmental-lab.aspx>

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica Air 137015
 Sample Matrix: Air
 Sample Name: OA-01
 Lab Code: R1302808-001

Service Request: R1302808
 Date Collected: 4/19/13 1630
 Date Received: 4/23/13

Analytical Method: TO-15

Date Analyzed: 4/24/13 2137
 Canister Dilution Factor: 1.47

Initial Pressure (psig): -2.26

Final Pressure (psig): 3.53

| CAS # | Analyte Name | Sample Amount mL | Result $\mu\text{g}/\text{m}^3$ | MRL $\mu\text{g}/\text{m}^3$ | Result ppbv | MRL ppbv | Data Qualifier |
|-------------|---------------------------------------|------------------|---------------------------------|------------------------------|-------------|----------|----------------|
| 74-87-3 | Chloromethane | 1000 | 1.1 | 0.66 | 0.53 | 0.32 | |
| 75-01-4 | Vinyl Chloride | 1000 | 0.088 | 0.088 | 0.035 | 0.035 | U |
| 74-83-9 | Bromomethane | 1000 | 0.63 | 0.63 | 0.16 | 0.16 | U |
| 75-00-3 | Chloroethane | 1000 | 0.85 | 0.85 | 0.32 | 0.32 | U |
| 67-64-1 | Acetone | 1000 | 7.4 | 7.4 | 3.1 | 3.1 | U |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 1000 | 1.4 | 0.91 | 0.25 | 0.16 | |
| 75-35-4 | 1,1-Dichloroethene | 1000 | 0.65 | 0.65 | 0.16 | 0.16 | U |
| 75-09-2 | Methylene Chloride | 1000 | 0.56 | 0.56 | 0.16 | 0.16 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1000 | 0.63 | 0.25 | 0.083 | 0.033 | |
| 75-15-0 | Carbon Disulfide | 1000 | 0.50 | 0.50 | 0.16 | 0.16 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1000 | 0.65 | 0.65 | 0.16 | 0.16 | U |
| 75-34-3 | 1,1-Dichloroethane (1,1-DCA) | 1000 | 0.66 | 0.66 | 0.16 | 0.16 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 1000 | 1.2 | 1.2 | 0.32 | 0.32 | U |
| 108-05-4 | Vinyl Acetate | 1000 | 7.4 | 7.4 | 2.1 | 2.1 | U |
| 78-93-3 | 2-Butanone (MEK) | 1000 | 0.96 | 0.96 | 0.32 | 0.32 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1000 | 0.65 | 0.65 | 0.16 | 0.16 | U |
| 67-66-3 | Chloroform | 1000 | 0.79 | 0.79 | 0.16 | 0.16 | U |
| 107-06-2 | 1,2-Dichloroethane | 1000 | 0.66 | 0.66 | 0.16 | 0.16 | U |
| 71-55-6 | 1,1,1-Trichloroethane (TCA) | 1000 | 0.88 | 0.88 | 0.16 | 0.16 | U |
| 71-43-2 | Benzene | 1000 | 0.51 | 0.51 | 0.16 | 0.16 | U |
| 56-23-5 | Carbon Tetrachloride | 1000 | 0.51 | 0.10 | 0.081 | 0.016 | |
| 78-87-5 | 1,2-Dichloropropane | 1000 | 0.75 | 0.75 | 0.16 | 0.16 | U |
| 75-27-4 | Bromodichloromethane | 1000 | 0.22 | 0.22 | 0.033 | 0.033 | U |
| 79-01-6 | Trichloroethene (TCE) | 1000 | 0.088 | 0.088 | 0.016 | 0.016 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1000 | 1.5 | 1.5 | 0.32 | 0.32 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | 1.3 | 1.3 | 0.32 | 0.32 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1000 | 0.74 | 0.74 | 0.16 | 0.16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1000 | 0.88 | 0.88 | 0.16 | 0.16 | U |
| 108-88-3 | Toluene | 1000 | 0.60 | 0.60 | 0.16 | 0.16 | U |
| 591-78-6 | 2-Hexanone | 1000 | 0.66 | 0.66 | 0.16 | 0.16 | U |
| 124-48-1 | Dibromochloromethane | 1000 | 0.28 | 0.28 | 0.033 | 0.033 | U |
| 106-93-4 | 1,2-Dibromoethane | 1000 | 0.25 | 0.25 | 0.033 | 0.033 | U |
| 127-18-4 | Tetrachloroethene (PCE) | 1000 | 0.12 | 0.12 | 0.017 | 0.017 | U |
| 108-90-7 | Chlorobenzene | 1000 | 0.75 | 0.75 | 0.16 | 0.16 | U |
| 100-41-4 | Ethylbenzene | 1000 | 1.4 | 1.4 | 0.32 | 0.32 | U |
| 179601-23-1 | m,p-Xylenes | 1000 | 2.8 | 2.8 | 0.65 | 0.65 | U |
| 75-25-2 | Bromoform | 1000 | 1.7 | 1.7 | 0.16 | 0.16 | U |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
Project: Leica Air 137015
Sample Matrix: Air
Sample Name: OA-01
Lab Code: R1302808-001

Service Request: R1302808
Date Collected: 4/19/13 1630
Date Received: 4/23/13

Analytical Method: TO-15

Date Analyzed: 4/24/13 2137
Canister Dilution Factor: 1.47

Initial Pressure (psig): -2.26 Final Pressure (psig): 3.53

| CAS # | Analyte Name | Sample Amount mL | Result µg/m ³ | MRL µg/m ³ | Result ppbv | MRL ppbv | Data Qualifier |
|----------|---------------------------|------------------|--------------------------|-----------------------|-------------|----------|----------------|
| 100-42-5 | Styrene | 1000 | 1.4 | 1.4 | 0.32 | 0.32 | U |
| 95-47-6 | o-Xylene | 1000 | 1.4 | 1.4 | 0.32 | 0.32 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1000 | 0.22 | 0.22 | 0.032 | 0.032 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1000 | 1.9 | 1.9 | 0.32 | 0.32 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1000 | 1.9 | 1.9 | 0.32 | 0.32 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1000 | 1.9 | 1.9 | 0.32 | 0.32 | U |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|----------------------|------|----------------|---------------|------|
| 4-Bromofluorobenzene | 109 | 70-130 | 4/24/13 2137 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica Air 137015
 Sample Matrix: Air
 Sample Name: Method Blank
 Lab Code: RQ1304254-01

Service Request: R1302808
 Date Collected: NA
 Date Received: NA

Analytical Method: TO-15

Date Analyzed: 4/24/13 1037

| CAS # | Analyte Name | Sample Amount mL | Result $\mu\text{g}/\text{m}^3$ | MRL $\mu\text{g}/\text{m}^3$ | Result ppbv | MRL ppbv | Data Qualifier |
|-------------|---------------------------------------|------------------|---------------------------------|------------------------------|-------------|----------|----------------|
| 74-87-3 | Chloromethane | 1000 | 0.45 | 0.45 | 0.22 | 0.22 | U |
| 75-01-4 | Vinyl Chloride | 1000 | 0.060 | 0.060 | 0.023 | 0.023 | U |
| 74-83-9 | Bromomethane | 1000 | 0.43 | 0.43 | 0.11 | 0.11 | U |
| 75-00-3 | Chloroethane | 1000 | 0.58 | 0.58 | 0.22 | 0.22 | U |
| 67-64-1 | Acetone | 1000 | 5.0 | 5.0 | 2.1 | 2.1 | U |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 1000 | 0.62 | 0.62 | 0.11 | 0.11 | U |
| 75-35-4 | 1,1-Dichloroethene | 1000 | 0.44 | 0.44 | 0.11 | 0.11 | U |
| 75-09-2 | Methylene Chloride | 1000 | 0.38 | 0.38 | 0.11 | 0.11 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1000 | 0.17 | 0.17 | 0.022 | 0.022 | U |
| 75-15-0 | Carbon Disulfide | 1000 | 0.34 | 0.34 | 0.11 | 0.11 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1000 | 0.44 | 0.44 | 0.11 | 0.11 | U |
| 75-34-3 | 1,1-Dichloroethane (1,1-DCA) | 1000 | 0.45 | 0.45 | 0.11 | 0.11 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 1000 | 0.79 | 0.79 | 0.22 | 0.22 | U |
| 108-05-4 | Vinyl Acetate | 1000 | 5.0 | 5.0 | 1.4 | 1.4 | U |
| 78-93-3 | 2-Butanone (MEK) | 1000 | 0.65 | 0.65 | 0.22 | 0.22 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1000 | 0.44 | 0.44 | 0.11 | 0.11 | U |
| 67-66-3 | Chloroform | 1000 | 0.54 | 0.54 | 0.11 | 0.11 | U |
| 107-06-2 | 1,2-Dichloroethane | 1000 | 0.45 | 0.45 | 0.11 | 0.11 | U |
| 71-55-6 | 1,1,1-Trichloroethane (TCA) | 1000 | 0.60 | 0.60 | 0.11 | 0.11 | U |
| 71-43-2 | Benzene | 1000 | 0.35 | 0.35 | 0.11 | 0.11 | U |
| 56-23-5 | Carbon Tetrachloride | 1000 | 0.070 | 0.070 | 0.011 | 0.011 | U |
| 78-87-5 | 1,2-Dichloropropane | 1000 | 0.51 | 0.51 | 0.11 | 0.11 | U |
| 75-27-4 | Bromodichloromethane | 1000 | 0.15 | 0.15 | 0.022 | 0.022 | U |
| 79-01-6 | Trichloroethene (TCE) | 1000 | 0.060 | 0.060 | 0.011 | 0.011 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1000 | 1.0 | 1.0 | 0.22 | 0.22 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | 0.90 | 0.90 | 0.22 | 0.22 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1000 | 0.50 | 0.50 | 0.11 | 0.11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1000 | 0.60 | 0.60 | 0.11 | 0.11 | U |
| 108-88-3 | Toluene | 1000 | 0.41 | 0.41 | 0.11 | 0.11 | U |
| 591-78-6 | 2-Hexanone | 1000 | 0.45 | 0.45 | 0.11 | 0.11 | U |
| 124-48-1 | Dibromochloromethane | 1000 | 0.19 | 0.19 | 0.022 | 0.022 | U |
| 106-93-4 | 1,2-Dibromoethane | 1000 | 0.17 | 0.17 | 0.022 | 0.022 | U |
| 127-18-4 | Tetrachloroethene (PCE) | 1000 | 0.080 | 0.080 | 0.012 | 0.012 | U |
| 108-90-7 | Chlorobenzene | 1000 | 0.51 | 0.51 | 0.11 | 0.11 | U |
| 100-41-4 | Ethylbenzene | 1000 | 0.95 | 0.95 | 0.22 | 0.22 | U |
| 179601-23-1 | m,p-Xylenes | 1000 | 1.9 | 1.9 | 0.44 | 0.44 | U |
| 75-25-2 | Bromoform | 1000 | 1.1 | 1.1 | 0.11 | 0.11 | U |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica Air 137015
 Sample Matrix: Air
 Sample Name: Method Blank
 Lab Code: RQ1304254-01

Service Request: R1302808
 Date Collected: NA
 Date Received: NA

Analytical Method: TO-15

Date Analyzed: 4/24/13 1037

| CAS # | Analyte Name | Sample Amount mL | Result $\mu\text{g}/\text{m}^3$ | MRL $\mu\text{g}/\text{m}^3$ | Result ppbv | MRL ppbv | Data Qualifier |
|----------|---------------------------|------------------|---------------------------------|------------------------------|-------------|----------|----------------|
| 100-42-5 | Styrene | 1000 | 0.94 | 0.94 | 0.22 | 0.22 | U |
| 95-47-6 | o-Xylene | 1000 | 0.95 | 0.95 | 0.22 | 0.22 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1000 | 0.15 | 0.15 | 0.022 | 0.022 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1000 | 1.3 | 1.3 | 0.22 | 0.22 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1000 | 1.3 | 1.3 | 0.22 | 0.22 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1000 | 1.3 | 1.3 | 0.22 | 0.22 | U |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|----------------------|------|----------------|---------------|------|
| 4-Bromofluorobenzene | 106 | 70-130 | 4/24/13 1037 | |

ALS ENVIRONMENTAL

QA/QC Report

Client: Energy Solutions
 Project: Leica Air 137015
 Sample Matrix: Air

Service Request: R1302808
 Date Analyzed: 4/24/13

Lab Control Sample Summary
 Volatile Organic Compounds in Air Collected In SUMMA Passivated Canisters and Analyzed By GC/MS

Analytical Method: TO-15

Units: µg/m³
 Basis: NA

Analysis Lot: 338036

Lab Control Sample
 RQ1304254-02

| Analyte Name | Result | Spike Amount | % Rec | % Rec Limits |
|---------------------------------------|--------|--------------|-------|--------------|
| Chloromethane | 4.67 | 5.26 | 89 | 70 - 130 |
| Vinyl Chloride | 6.59 | 6.58 | 100 | 70 - 130 |
| Bromomethane | 10.0 | 9.89 | 102 | 70 - 130 |
| Chloroethane | 6.44 | 6.66 | 97 | 70 - 130 |
| Acetone | 6.26 | 6.47 | 97 | 70 - 130 |
| Trichlorofluoromethane (CFC 11) | 15.8 | 14.3 | 110 | 70 - 130 |
| 1,1-Dichloroethene | 10.3 | 10.4 | 99 | 70 - 130 |
| Methylene Chloride | 8.31 | 9.03 | 92 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 19.1 | 19.9 | 96 | 70 - 130 |
| Carbon Disulfide | 8.26 | 7.94 | 104 | 70 - 130 |
| trans-1,2-Dichloroethene | 9.81 | 10.4 | 94 | 70 - 130 |
| 1,1-Dichloroethane (1,1-DCA) | 9.80 | 10.5 | 93 | 70 - 130 |
| Methyl tert-Butyl Ether | 9.26 | 9.64 | 96 | 70 - 130 |
| Vinyl Acetate | 8.26 | 9.06 | 91 | 70 - 130 |
| 2-Butanone (MEK) | 7.30 | 7.89 | 93 | 70 - 130 |
| cis-1,2-Dichloroethene | 9.51 | 10.5 | 91 | 70 - 130 |
| Chloroform | 12.8 | 13.2 | 97 | 70 - 130 |
| 1,2-Dichloroethane | 12.4 | 10.6 | 117 | 70 - 130 |
| 1,1,1-Trichloroethane (TCA) | 15.6 | 14.3 | 109 | 70 - 130 |
| Benzene | 7.86 | 8.38 | 94 | 70 - 130 |
| Carbon Tetrachloride | 17.2 | 15.9 | 108 | 70 - 130 |
| 1,2-Dichloropropane | 10.5 | 12.1 | 87 | 70 - 130 |
| Bromodichloromethane | 18.4 | 17.4 | 105 | 70 - 130 |
| Trichloroethene (TCE) | 13.6 | 14.0 | 97 | 70 - 130 |
| cis-1,3-Dichloropropene | 12.4 | 12.3 | 101 | 70 - 130 |
| 4-Methyl-2-pentanone | 9.79 | 10.5 | 93 | 70 - 130 |
| trans-1,3-Dichloropropene | 11.1 | 11.0 | 100 | 70 - 130 |
| 1,1,2-Trichloroethane | 13.5 | 14.6 | 93 | 70 - 130 |
| Toluene | 9.29 | 10.1 | 92 | 70 - 130 |
| 2-Hexanone | 9.99 | 11.4 | 88 | 70 - 130 |
| Dibromochloromethane | 24.6 | 23.4 | 105 | 70 - 130 |
| 1,2-Dibromoethane | 19.0 | 20.0 | 95 | 70 - 130 |
| Tetrachloroethene (PCE) | 18.9 | 18.0 | 105 | 70 - 130 |
| Chlorobenzene | 11.7 | 12.3 | 95 | 70 - 130 |
| Ethylbenzene | 11.0 | 11.5 | 95 | 70 - 130 |
| m,p-Xylenes | 21.9 | 22.4 | 98 | 70 - 130 |
| Bromoform | 28.8 | 26.6 | 108 | 70 - 130 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Energy Solutions
 Project: Leica Air 137015
 Sample Matrix: Air

Service Request: R1302808
 Date Analyzed: 4/24/13

Lab Control Sample Summary
 Volatile Organic Compounds in Air Collected In SUMMA Passivated Canisters and Analyzed By GC/MS

Analytical Method: TO-15

Units: $\mu\text{g}/\text{m}^3$

Basis: NA

Analysis Lot: 338036

Lab Control Sample
 RQ1304254-02

| Analyte Name | Result | Spike Amount | % Rec | % Rec Limits |
|---------------------------|--------|--------------|-------|--------------|
| Styrene | 10.8 | 11.2 | 97 | 70 - 130 |
| o-Xylene | 11.3 | 11.9 | 94 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 15.7 | 18.9 | 83 | 70 - 130 |
| 1,3-Dichlorobenzene | 14.4 | 15.0 | 96 | 70 - 130 |
| 1,4-Dichlorobenzene | 13.9 | 15.0 | 93 | 70 - 130 |
| 1,2-Dichlorobenzene | 13.9 | 15.0 | 93 | 70 - 130 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161
 Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

CAS Project No.

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 6 Day (20%) 7 Day (15%) 8 Day (10%) 9 Day (5%) 10 Day (Standard)

Company Name & Address (Reporting Information)
ENERGY SOLUTIONS
 100 Mill Plain Rd
 DAUBURY CT 06811

Project Manager
Bob McPeak

Phone **801 303 1092** Fax

Email Address for Result Reporting
RMcPeak@EnergySolutions.com

Project Name
LEICA

Project Number
137015

P.O. # / Billing Information

CAS Contact:
K. Aguilera

Analysis Method

| Client Sample ID | Laboratory ID Number | Date Collected | Time Collected | Canister ID (Bar code # - AC, SC, etc.) | Flow Controller ID (Bar code # - FC #) | Canister Start Pressure "Hg | Canister End Pressure "Hg/psig | Sample Volume | Comments |
|------------------|----------------------|----------------|----------------|---|--|-----------------------------|--------------------------------|---------------|----------|
| SB-3 | | 4/19/13 | 0830 1630 | ACD1582 | FCA00490 | 28.0 | 6.0 | 6L | X |
| IA-3 | | 4/19/13 | 0830 1630 | ACD1348 | FCA00007 | 29.5 | 9.0 | 6L | X |
| SS-8hr-051 | | 4/19/13 | 0800 1600 | ACO1382 | FCA00532 | 29.0 | 8.5 | 6L | X |
| SS-8hr-052 | | 4/19/13 | 0815 1615 | ACO0876 | FCA00193 | 27.5 | 5.0 | 6L | X |
| IA-8hr-051 | | 4/19/13 | 0800 1600 | ASO0384 | FCA00408 | 27.5 | 5.0 | 6L | X |
| IA-8hr-052 | | 4/19/13 | 0815 1615 | ACO1159 | FCA00177 | 29.0 | 10.0 | 6L | X |
| OA-01 | 001 | 4/19/13 | 0830 1630 | SLC00146 | FC00853 | 30.0 | 7.0 | 6L | X |
| IA-8hr-056 | | 4/20/13 | 0720 1530 | ACO1305 | FCA00233 | 27.5 | 6.0 | 6L | X |
| SS-8hr-053 | | 4/20/13 | 0740 1545 | ACO1901 | FCA00174 | 29.0 | 6.0 | 6L | X |
| IA-8hr-053 | | 4/20/13 | 0740 1545 | ACO0915 | FCA00075 | 30.0 | 6.0 | 6L | X |
| SS-8hr-054 | | 4/20/13 | 0805 1610 | ACO1363 | FCA00203 | 29.0 | 5.0 | 6L | X |
| IA-8hr-054 | | 4/20/13 | 0805 1610 | ACO0509 | FCA00480 | 30.0+ | 11.0 | 6L | X |
| SS-8hr-055 | | 4/20/13 | 0730 1550 | ACO0676 | FCA00246 | 29.0 | 6.0 | 6L | X |
| IA-8hr-055 | | 4/20/13 | 0730 1550 | ACO1414 | FCA00678 | 29.5 | 6.0 | 6L | X |

10-15
 TH

DAW SLYWKA
 DLS

R1302808
 Energy Solutions, Inc.
 Leica Air 137015

5
 Project Re. (MRLs, QAPP)
 Project Re. **R1302808**
 Cooler / Blank Temperature

EDD required **6S** / No
 Type: **NY DEC**

Tier III (Results + QC & Calibration Summaries)
 Tier IV (Data Validation Package) 10% Surcharge

Relinquished by: (Signature) **Wayne DeMali** Time: **11:15** Date: **4/20/13**

Relinquished by: (Signature) **Wayne DeMali** Time: **1530** Date: **4/23/13**

Received by: (Signature) **Wayne DeMali** Time: **11:15** Date: **4/22/13**

Received by: (Signature) **Wayne DeMali** Time: **11:15** Date: **4/22/13**

Report Tier Levels - please select

Tier I - Results (Default if not specified)
 Tier II (Results + QC Summaries)



Cooler Receipt and Preservation Check Form

Project/Client Energy Solutions Folder Number R1302808

Cooler received on 4/23/13 by: AL COURIER: ALS UPS FEDEX VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
- Were Ice or Ice packs present? YES NO
- Where did the bottles originate? ALS/ROC CLIENT
- Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
- Temperature of cooler(s) upon receipt: Air

Is the temperature within 0° - 6° C?: Y N Y N Y N Y N Y N

If No, Explain Below Date/Time Temperatures Taken: AIR

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location SMD by AL on 4/23/13 at 1530
5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: AL 4/23/13

Cooler Breakdown: Date: 4/23/13 Time: 1609 by: AL

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

| pH | Reagent | YES NO | | Lot Received | Exp | Sample ID | Vol. Added | Lot Added | Final pH | Yes = All samples OK No = Samples were preserved at lab as listed PM OK to Adjust: _____ |
|-----------------------|---|--------|----|---|-----|-----------|------------|-----------|----------|---|
| | | YES | NO | | | | | | | |
| ≥12 | NaOH | | | | | | | | | |
| ≤2 | HNO ₃ | | | | | | | | | |
| ≤2 | H ₂ SO ₄ | | | | | | | | | |
| <4 | NaHSO ₄ | | | | | | | | | |
| Residual Chlorine (-) | For TCN Phenol and 522 | | | If present, contact PM to add ascorbic acid Or sodium sulfite (522) | | | | | | |
| | Na ₂ S ₂ O ₃ | - | - | | | | | | | *Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet |
| | Zn Aceta | - | - | | | | | | | |
| | HCl | * | * | | | | | | | |

Bottle lot numbers: _____

Other Comments: _____

PC Secondary Review: AL 4/23/13

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



May 06, 2013

Service Request No: R1302734

Mr. Robert McPeak
Energy Solutions, Inc.
100 Mill Plain Rd
2nd Floor Mailbox 106
Danbury, CT 06811

Laboratory Results for: Leica 137015

Dear Mr. McPeak:

Enclosed are the results of the sample(s) submitted to our laboratory on April 19, 2013. For your reference, these analyses have been assigned our service request number **R1302734**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Karen.Bunker@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Karen Bunker
Project Manager

Page 1 of 26

Client: Energy Solutions
Project: Leica Wells April /2013
Sample Matrix: Water

Service Request No.: R1302734
Date Received: 4/19/13

All analyses were performed consistent with the quality assurance program of ALS Environmental (ALS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses.

Sample Receipt

Four (4) samples were collected by the client on 4/16/13 and received for analysis at ALS on 4/19/13 via ALS Courier.

Volatile Organics

Four (4) water samples were analyzed for Volatile Organic compounds by GC/MS method 8260C.

The Initials Calibration criteria were met for all samples. The Continuing Calibration criteria were met except for the %D which was outside the $\pm 20\%$ limits for the compound Bromomethane (34.9%), Carbon Tetrachloride (23.6%), Dibromochloromethane (20.3%) on the 4/26/13 run and Bromoform (27.2%), and Bromomethane (-34.4%) on the 4/29/13 run. Any hits for these compounds on the associated CCV's should be considered as estimated.

Batch QC is included in the report. All Laboratory Control Sample (LCS) and LCS Duplicate (LCSD) recoveries for target compounds were within QC limits except for Bromoform on the 4/26/13 and 4/29/13 runs which were outside limits high. The exceeded recoveries are flagged as "*". No data was affected. All Relative Percent Difference (RPD) calculations were acceptable.

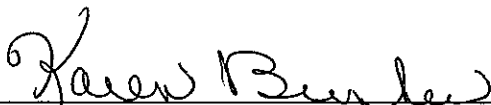
Hits above the calibration range of the standards are flagged as "E", estimated. The sample is then repeated at the appropriate level for the hit. Both sets of data are included in the report. The subsequent hits in the dilutions are flagged as "D".

All Surrogate recoveries are within acceptance limits.

The Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Approved by



Date

5/6/13

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1302734

| <u>Lab ID</u> | <u>Client ID</u> |
|---------------|------------------|
| R1302734-001 | INT-10 |
| R1302734-002 | INT-11 |
| R1302734-003 | INT-12 |
| R1302734-004 | INT-13 |

REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.



Rochester Lab ID # for State Certifications¹

| | | |
|-------------------------|-----------------------|-------------------------|
| NELAP Accredited | Maine ID #NY0032 | New Hampshire ID # |
| Connecticut ID # PH0556 | Nebraska Accredited | 294100 A/B |
| Delaware Accredited | Nevada ID # NY-00032 | North Carolina #676 |
| DoD ELAP #65817 | New Jersey ID # NY004 | Pennsylvania ID# 68-786 |
| Florida ID # E87674 | New York ID # 10145 | Rhode Island ID # 158 |
| Illinois ID #200047 | | Virginia #460167 |

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://alsglobal.com/environmental/laboratories/rochester-environmental-lab.aspx>

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: 4/16/13 1430
 Date Received: 4/19/13
 Date Analyzed: 4/26/13 19:34

Sample Name: INT-10
 Lab Code: R1302734-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\042613\E8688.D\

Analysis Lot: 338201
 Instrument Name: R-MS-10
 Dilution Factor: 25

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|-------------|-----------------------------|--------|---|-----|------|
| 67-64-1 | Acetone | 250 | U | 250 | |
| 71-43-2 | Benzene | 130 | U | 130 | |
| 75-27-4 | Bromodichloromethane | 130 | U | 130 | |
| 75-25-2 | Bromoform | 130 | U | 130 | |
| 74-83-9 | Bromomethane | 130 | U | 130 | |
| 78-93-3 | 2-Butanone (MEK) | 250 | U | 250 | |
| 75-15-0 | Carbon Disulfide | 250 | U | 250 | |
| 56-23-5 | Carbon Tetrachloride | 130 | U | 130 | |
| 108-90-7 | Chlorobenzene | 130 | U | 130 | |
| 75-00-3 | Chloroethane | 130 | U | 130 | |
| 67-66-3 | Chloroform | 130 | U | 130 | |
| 74-87-3 | Chloromethane | 130 | U | 130 | |
| 124-48-1 | Dibromochloromethane | 130 | U | 130 | |
| 75-34-3 | 1,1-Dichloroethane | 130 | U | 130 | |
| 107-06-2 | 1,2-Dichloroethane | 130 | U | 130 | |
| 75-35-4 | 1,1-Dichloroethene | 130 | U | 130 | |
| 156-59-2 | cis-1,2-Dichloroethene | 340 | | 130 | |
| 156-60-5 | trans-1,2-Dichloroethene | 130 | U | 130 | |
| 78-87-5 | 1,2-Dichloropropane | 130 | U | 130 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 130 | U | 130 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 130 | U | 130 | |
| 100-41-4 | Ethylbenzene | 130 | U | 130 | |
| 591-78-6 | 2-Hexanone | 250 | U | 250 | |
| 75-09-2 | Methylene Chloride | 130 | U | 130 | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 250 | U | 250 | |
| 100-42-5 | Styrene | 130 | U | 130 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 130 | U | 130 | |
| 127-18-4 | Tetrachloroethene | 130 | U | 130 | |
| 108-88-3 | Toluene | 130 | U | 130 | |
| 71-55-6 | 1,1,1-Trichloroethane | 130 | U | 130 | |
| 79-00-5 | 1,1,2-Trichloroethane | 130 | U | 130 | |
| 79-01-6 | Trichloroethene | 5100 | E | 130 | |
| 75-01-4 | Vinyl Chloride | 130 | U | 130 | |
| 95-47-6 | o-Xylene | 130 | U | 130 | |
| 179601-23-1 | m,p-Xylenes | 130 | U | 130 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1302734
Date Collected: 4/16/13 1430
Date Received: 4/19/13
Date Analyzed: 4/26/13 19:34

Sample Name: INT-10
Lab Code: R1302734-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\042613\E8688.D\

Analysis Lot: 338201
Instrument Name: R-MS-10
Dilution Factor: 25

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|---------|----------------------|--------|----------------|---------------|------|
| | Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
| | 4-Bromofluorobenzene | 92 | 85-122 | 4/26/13 19:34 | |
| | Toluene-d8 | 99 | 87-121 | 4/26/13 19:34 | |
| | Dibromofluoromethane | 112 | 89-119 | 4/26/13 19:34 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: 4/16/13 1430
 Date Received: 4/19/13
 Date Analyzed: 4/29/13 17:33

Sample Name: INT-10
 Lab Code: R1302734-001
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\042913\E8733.D\

Analysis Lot: 338428
 Instrument Name: R-MS-10
 Dilution Factor: 50

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|-------------|-----------------------------|--------|---|-----|------|
| 67-64-1 | Acetone | 500 | U | 500 | |
| 71-43-2 | Benzene | 250 | U | 250 | |
| 75-27-4 | Bromodichloromethane | 250 | U | 250 | |
| 75-25-2 | Bromoform | 250 | U | 250 | |
| 74-83-9 | Bromomethane | 250 | U | 250 | |
| 78-93-3 | 2-Butanone (MEK) | 500 | U | 500 | |
| 75-15-0 | Carbon Disulfide | 500 | U | 500 | |
| 56-23-5 | Carbon Tetrachloride | 250 | U | 250 | |
| 108-90-7 | Chlorobenzene | 250 | U | 250 | |
| 75-00-3 | Chloroethane | 250 | U | 250 | |
| 67-66-3 | Chloroform | 250 | U | 250 | |
| 74-87-3 | Chloromethane | 250 | U | 250 | |
| 124-48-1 | Dibromochloromethane | 250 | U | 250 | |
| 75-34-3 | 1,1-Dichloroethane | 250 | U | 250 | |
| 107-06-2 | 1,2-Dichloroethane | 250 | U | 250 | |
| 75-35-4 | 1,1-Dichloroethene | 250 | U | 250 | |
| 156-59-2 | cis-1,2-Dichloroethene | 490 | D | 250 | |
| 156-60-5 | trans-1,2-Dichloroethene | 250 | U | 250 | |
| 78-87-5 | 1,2-Dichloropropane | 250 | U | 250 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 250 | U | 250 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 250 | U | 250 | |
| 100-41-4 | Ethylbenzene | 250 | U | 250 | |
| 591-78-6 | 2-Hexanone | 500 | U | 500 | |
| 75-09-2 | Methylene Chloride | 250 | U | 250 | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 500 | U | 500 | |
| 100-42-5 | Styrene | 250 | U | 250 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 250 | U | 250 | |
| 127-18-4 | Tetrachloroethene | 250 | U | 250 | |
| 108-88-3 | Toluene | 250 | U | 250 | |
| 71-55-6 | 1,1,1-Trichloroethane | 250 | U | 250 | |
| 79-00-5 | 1,1,2-Trichloroethane | 250 | U | 250 | |
| 79-01-6 | Trichloroethene | 7500 | D | 250 | |
| 75-01-4 | Vinyl Chloride | 250 | U | 250 | |
| 95-47-6 | o-Xylene | 250 | U | 250 | |
| 179601-23-1 | m,p-Xylenes | 250 | U | 250 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1302734
Date Collected: 4/16/13 1430
Date Received: 4/19/13
Date Analyzed: 4/29/13 17:33

Sample Name: INT-10
Lab Code: R1302734-001
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa10\data\042913\E8733.D\

Analysis Lot: 338428
Instrument Name: R-MS-10
Dilution Factor: 50

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|---------|----------------------|--------|----------------|---------------|------|
| | Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
| | 4-Bromofluorobenzene | 94 | 85-122 | 4/29/13 17:33 | |
| | Toluene-d8 | 98 | 87-121 | 4/29/13 17:33 | |
| | Dibromofluoromethane | 106 | 89-119 | 4/29/13 17:33 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: 4/16/13 1345
 Date Received: 4/19/13
 Date Analyzed: 4/26/13 20:03

Sample Name: INT-11
 Lab Code: R1302734-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\042613\B8689.D\

Analysis Lot: 338201
 Instrument Name: R-MS-10
 Dilution Factor: 5

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|-------------|-----------------------------|--------|---|-----|------|
| 67-64-1 | Acetone | 50 | U | 50 | |
| 71-43-2 | Benzene | 25 | U | 25 | |
| 75-27-4 | Bromodichloromethane | 25 | U | 25 | |
| 75-25-2 | Bromoform | 25 | U | 25 | |
| 74-83-9 | Bromomethane | 25 | U | 25 | |
| 78-93-3 | 2-Butanone (MEK) | 50 | U | 50 | |
| 75-15-0 | Carbon Disulfide | 50 | U | 50 | |
| 56-23-5 | Carbon Tetrachloride | 25 | U | 25 | |
| 108-90-7 | Chlorobenzene | 25 | U | 25 | |
| 75-00-3 | Chloroethane | 25 | U | 25 | |
| 67-66-3 | Chloroform | 25 | U | 25 | |
| 74-87-3 | Chloromethane | 25 | U | 25 | |
| 124-48-1 | Dibromochloromethane | 25 | U | 25 | |
| 75-34-3 | 1,1-Dichloroethane | 25 | U | 25 | |
| 107-06-2 | 1,2-Dichloroethane | 25 | U | 25 | |
| 75-35-4 | 1,1-Dichloroethene | 25 | U | 25 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1300 | E | 25 | |
| 156-60-5 | trans-1,2-Dichloroethene | 25 | U | 25 | |
| 78-87-5 | 1,2-Dichloropropane | 25 | U | 25 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 25 | U | 25 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 25 | U | 25 | |
| 100-41-4 | Ethylbenzene | 25 | U | 25 | |
| 591-78-6 | 2-Hexanone | 50 | U | 50 | |
| 75-09-2 | Methylene Chloride | 25 | U | 25 | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 50 | U | 50 | |
| 100-42-5 | Styrene | 25 | U | 25 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25 | U | 25 | |
| 127-18-4 | Tetrachloroethene | 25 | U | 25 | |
| 108-88-3 | Toluene | 25 | U | 25 | |
| 71-55-6 | 1,1,1-Trichloroethane | 25 | U | 25 | |
| 79-00-5 | 1,1,2-Trichloroethane | 25 | U | 25 | |
| 79-01-6 | Trichloroethene | 74 | | 25 | |
| 75-01-4 | Vinyl Chloride | 44 | | 25 | |
| 95-47-6 | o-Xylene | 25 | U | 25 | |
| 179601-23-1 | m,p-Xylenes | 25 | U | 25 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: 4/16/13 1345
 Date Received: 4/19/13
 Date Analyzed: 4/26/13 20:03

Sample Name: INT-11
 Lab Code: R1302734-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\042613\E8689.D\

Analysis Lot: 338201
 Instrument Name: R-MS-10
 Dilution Factor: 5

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|---------|----------------------|--------|----------------|---------------|------|
| | Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
| | 4-Bromofluorobenzene | 90 | 85-122 | 4/26/13 20:03 | |
| | Toluene-d8 | 99 | 87-121 | 4/26/13 20:03 | |
| | Dibromofluoromethane | 112 | 89-119 | 4/26/13 20:03 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: 4/16/13 1345
 Date Received: 4/19/13
 Date Analyzed: 4/29/13 18:03

Sample Name: INT-11
 Lab Code: R1302734-002
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvov10\data\042913\E8734.D\

Analysis Lot: 338428
 Instrument Name: R-MS-10
 Dilution Factor: 10

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|-------------|-----------------------------|--------|---|-----|------|
| 67-64-1 | Acetone | 100 | U | 100 | |
| 71-43-2 | Benzene | 50 | U | 50 | |
| 75-27-4 | Bromodichloromethane | 50 | U | 50 | |
| 75-25-2 | Bromoform | 50 | U | 50 | |
| 74-83-9 | Bromomethane | 50 | U | 50 | |
| 78-93-3 | 2-Butanone (MEK) | 100 | U | 100 | |
| 75-15-0 | Carbon Disulfide | 100 | U | 100 | |
| 56-23-5 | Carbon Tetrachloride | 50 | U | 50 | |
| 108-90-7 | Chlorobenzene | 50 | U | 50 | |
| 75-00-3 | Chloroethane | 50 | U | 50 | |
| 67-66-3 | Chloroform | 50 | U | 50 | |
| 74-87-3 | Chloromethane | 50 | U | 50 | |
| 124-48-1 | Dibromochloromethane | 50 | U | 50 | |
| 75-34-3 | 1,1-Dichloroethane | 50 | U | 50 | |
| 107-06-2 | 1,2-Dichloroethane | 50 | U | 50 | |
| 75-35-4 | 1,1-Dichloroethene | 50 | U | 50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1100 | D | 50 | |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | U | 50 | |
| 78-87-5 | 1,2-Dichloropropane | 50 | U | 50 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | U | 50 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | U | 50 | |
| 100-41-4 | Ethylbenzene | 50 | U | 50 | |
| 591-78-6 | 2-Hexanone | 100 | U | 100 | |
| 75-09-2 | Methylene Chloride | 50 | U | 50 | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 100 | U | 100 | |
| 100-42-5 | Styrene | 50 | U | 50 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | U | 50 | |
| 127-18-4 | Tetrachloroethene | 50 | U | 50 | |
| 108-88-3 | Toluene | 50 | U | 50 | |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | U | 50 | |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | U | 50 | |
| 79-01-6 | Trichloroethene | 66 | D | 50 | |
| 75-01-4 | Vinyl Chloride | 50 | U | 50 | |
| 95-47-6 | o-Xylene | 50 | U | 50 | |
| 179601-23-1 | m,p-Xylenes | 50 | U | 50 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: 4/16/13 1345
 Date Received: 4/19/13
 Date Analyzed: 4/29/13 18:03

Sample Name: INT-11
 Lab Code: R1302734-002
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\042913\E8734.D\

Analysis Lot: 338428
 Instrument Name: R-MS-10
 Dilution Factor: 10

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|---------|----------------------|--------|----------------|---------------|------|
| | Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
| | 4-Bromofluorobenzene | 95 | 85-122 | 4/29/13 18:03 | |
| | Toluene-d8 | 97 | 87-121 | 4/29/13 18:03 | |
| | Dibromofluoromethane | 105 | 89-119 | 4/29/13 18:03 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: 4/16/13 1600
 Date Received: 4/19/13
 Date Analyzed: 4/26/13 20:33

Sample Name: INT-12
 Lab Code: R1302734-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvov10\data\042613\E8690.D\

Analysis Lot: 338201
 Instrument Name: R-MS-10
 Dilution Factor: 20

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|-------------|-----------------------------|--------|---|-----|------|
| 67-64-1 | Acetone | 200 | U | 200 | |
| 71-43-2 | Benzene | 100 | U | 100 | |
| 75-27-4 | Bromodichloromethane | 100 | U | 100 | |
| 75-25-2 | Bromoform | 100 | U | 100 | |
| 74-83-9 | Bromomethane | 100 | U | 100 | |
| 78-93-3 | 2-Butanone (MEK) | 200 | U | 200 | |
| 75-15-0 | Carbon Disulfide | 200 | U | 200 | |
| 56-23-5 | Carbon Tetrachloride | 100 | U | 100 | |
| 108-90-7 | Chlorobenzene | 100 | U | 100 | |
| 75-00-3 | Chloroethane | 100 | U | 100 | |
| 67-66-3 | Chloroform | 100 | U | 100 | |
| 74-87-3 | Chloromethane | 100 | U | 100 | |
| 124-48-1 | Dibromochloromethane | 100 | U | 100 | |
| 75-34-3 | 1,1-Dichloroethane | 160 | | 100 | |
| 107-06-2 | 1,2-Dichloroethane | 100 | U | 100 | |
| 75-35-4 | 1,1-Dichloroethene | 100 | U | 100 | |
| 156-59-2 | cis-1,2-Dichloroethene | 500 | | 100 | |
| 156-60-5 | trans-1,2-Dichloroethene | 100 | U | 100 | |
| 78-87-5 | 1,2-Dichloropropane | 100 | U | 100 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 100 | U | 100 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 100 | U | 100 | |
| 100-41-4 | Ethylbenzene | 100 | U | 100 | |
| 591-78-6 | 2-Hexanone | 200 | U | 200 | |
| 75-09-2 | Methylene Chloride | 100 | U | 100 | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 200 | U | 200 | |
| 100-42-5 | Styrene | 100 | U | 100 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | U | 100 | |
| 127-18-4 | Tetrachloroethene | 100 | U | 100 | |
| 108-88-3 | Toluene | 100 | U | 100 | |
| 71-55-6 | 1,1,1-Trichloroethane | 100 | U | 100 | |
| 79-00-5 | 1,1,2-Trichloroethane | 100 | U | 100 | |
| 79-01-6 | Trichloroethene | 2400 | | 100 | |
| 75-01-4 | Vinyl Chloride | 100 | U | 100 | |
| 95-47-6 | o-Xylene | 100 | U | 100 | |
| 179601-23-1 | m,p-Xylenes | 100 | U | 100 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1302734
Date Collected: 4/16/13 1600
Date Received: 4/19/13
Date Analyzed: 4/26/13 20:33

Sample Name: INT-12
Lab Code: R1302734-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa10\data\042613\E8690.D\

Analysis Lot: 338201
Instrument Name: R-MS-10
Dilution Factor: 20

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|---------|----------------------|--------|----------------|---------------|------|
| | Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
| | 4-Bromofluorobenzene | 91 | 85-122 | 4/26/13 20:33 | |
| | Toluene-d8 | 100 | 87-121 | 4/26/13 20:33 | |
| | Dibromofluoromethane | 114 | 89-119 | 4/26/13 20:33 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: 4/16/13 1630
 Date Received: 4/19/13
 Date Analyzed: 4/29/13 18:32

Sample Name: INT-13
 Lab Code: R1302734-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\042913\E8735.D\

Analysis Lot: 338428
 Instrument Name: R-MS-10
 Dilution Factor: 1

| CAS No. | Analyte Name | Result Q | MRL | Note |
|-------------|-----------------------------|----------|-----|------|
| 67-64-1 | Acetone | 10 U | 10 | |
| 71-43-2 | Benzene | 5.0 U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 5.0 U | 5.0 | |
| 75-25-2 | Bromoform | 5.0 U | 5.0 | |
| 74-83-9 | Bromomethane | 5.0 U | 5.0 | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | 10 | |
| 75-15-0 | Carbon Disulfide | 10 U | 10 | |
| 56-23-5 | Carbon Tetrachloride | 5.0 U | 5.0 | |
| 108-90-7 | Chlorobenzene | 5.0 U | 5.0 | |
| 75-00-3 | Chloroethane | 5.0 U | 5.0 | |
| 67-66-3 | Chloroform | 5.0 U | 5.0 | |
| 74-87-3 | Chloromethane | 5.0 U | 5.0 | |
| 124-48-1 | Dibromochloromethane | 5.0 U | 5.0 | |
| 75-34-3 | 1,1-Dichloroethane | 65 | 5.0 | |
| 107-06-2 | 1,2-Dichloroethane | 5.0 U | 5.0 | |
| 75-35-4 | 1,1-Dichloroethene | 8.6 | 5.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 38 | 5.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 U | 5.0 | |
| 78-87-5 | 1,2-Dichloropropane | 5.0 U | 5.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 U | 5.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 U | 5.0 | |
| 100-41-4 | Ethylbenzene | 5.0 U | 5.0 | |
| 591-78-6 | 2-Hexanone | 10 U | 10 | |
| 75-09-2 | Methylene Chloride | 5.0 U | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 10 U | 10 | |
| 100-42-5 | Styrene | 5.0 U | 5.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 U | 5.0 | |
| 127-18-4 | Tetrachloroethene | 5.0 U | 5.0 | |
| 108-88-3 | Toluene | 5.0 U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 23 | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 U | 5.0 | |
| 79-01-6 | Trichloroethene | 160 | 5.0 | |
| 75-01-4 | Vinyl Chloride | 5.0 U | 5.0 | |
| 95-47-6 | o-Xylene | 5.0 U | 5.0 | |
| 179601-23-1 | m,p-Xylenes | 5.0 U | 5.0 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1302734
Date Collected: 4/16/13 1630
Date Received: 4/19/13
Date Analyzed: 4/29/13 18:32

Sample Name: INT-13
Lab Code: R1302734-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoo10\data\042913\E8735.D\

Analysis Lot: 338428
Instrument Name: R-MS-10
Dilution Factor: 1

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|---------|----------------------|--------|----------------|---------------|------|
| | Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
| | 4-Bromofluorobenzene | 97 | 85-122 | 4/29/13 18:32 | |
| | Toluene-d8 | 98 | 87-121 | 4/29/13 18:32 | |
| | Dibromofluoromethane | 109 | 89-119 | 4/29/13 18:32 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/26/13 14:09

Sample Name: Method Blank
 Lab Code: RQ1304362-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\042613\E8677.D\

Analysis Lot: 338201
 Instrument Name: R-MS-10
 Dilution Factor: 1

| CAS No. | Analyte Name | Result Q | MRL | Note |
|-------------|-----------------------------|----------|-----|------|
| 67-64-1 | Acetone | 10 U | 10 | |
| 71-43-2 | Benzene | 5.0 U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 5.0 U | 5.0 | |
| 75-25-2 | Bromoform | 5.0 U | 5.0 | |
| 74-83-9 | Bromomethane | 5.0 U | 5.0 | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | 10 | |
| 75-15-0 | Carbon Disulfide | 10 U | 10 | |
| 56-23-5 | Carbon Tetrachloride | 5.0 U | 5.0 | |
| 108-90-7 | Chlorobenzene | 5.0 U | 5.0 | |
| 75-00-3 | Chloroethane | 5.0 U | 5.0 | |
| 67-66-3 | Chloroform | 5.0 U | 5.0 | |
| 74-87-3 | Chloromethane | 5.0 U | 5.0 | |
| 124-48-1 | Dibromochloromethane | 5.0 U | 5.0 | |
| 75-34-3 | 1,1-Dichloroethane | 5.0 U | 5.0 | |
| 107-06-2 | 1,2-Dichloroethane | 5.0 U | 5.0 | |
| 75-35-4 | 1,1-Dichloroethene | 5.0 U | 5.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 U | 5.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 U | 5.0 | |
| 78-87-5 | 1,2-Dichloropropane | 5.0 U | 5.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 U | 5.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 U | 5.0 | |
| 100-41-4 | Ethylbenzene | 5.0 U | 5.0 | |
| 591-78-6 | 2-Hexanone | 10 U | 10 | |
| 75-09-2 | Methylene Chloride | 5.0 U | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 10 U | 10 | |
| 100-42-5 | Styrene | 5.0 U | 5.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 U | 5.0 | |
| 127-18-4 | Tetrachloroethene | 5.0 U | 5.0 | |
| 108-88-3 | Toluene | 5.0 U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 U | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 U | 5.0 | |
| 79-01-6 | Trichloroethene | 5.0 U | 5.0 | |
| 75-01-4 | Vinyl Chloride | 5.0 U | 5.0 | |
| 95-47-6 | o-Xylene | 5.0 U | 5.0 | |
| 179601-23-1 | m,p-Xylenes | 5.0 U | 5.0 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1302734
Date Collected: NA
Date Received: NA
Date Analyzed: 4/26/13 14:09

Sample Name: Method Blank
Lab Code: RQ1304362-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvov10\data\042613\E8677.D\

Analysis Lot: 338201
Instrument Name: R-MS-10
Dilution Factor: 1

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|---------|----------------------|--------|----------------|---------------|------|
| | Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
| | 4-Bromofluorobenzene | 91 | 85-122 | 4/26/13 14:09 | |
| | Toluene-d8 | 96 | 87-121 | 4/26/13 14:09 | |
| | Dibromofluoromethane | 104 | 89-119 | 4/26/13 14:09 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/29/13 16:04

Sample Name: Method Blank
 Lab Code: RQ1304450-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\042913\E8730.D\

Analysis Lot: 338428
 Instrument Name: R-MS-10
 Dilution Factor: 1

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|-------------|-----------------------------|--------|---|-----|------|
| 67-64-1 | Acetone | 10 | U | 10 | |
| 71-43-2 | Benzene | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 5.0 | U | 5.0 | |
| 75-25-2 | Bromoform | 5.0 | U | 5.0 | |
| 74-83-9 | Bromomethane | 5.0 | U | 5.0 | |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | |
| 75-15-0 | Carbon Disulfide | 10 | U | 10 | |
| 56-23-5 | Carbon Tetrachloride | 5.0 | U | 5.0 | |
| 108-90-7 | Chlorobenzene | 5.0 | U | 5.0 | |
| 75-00-3 | Chloroethane | 5.0 | U | 5.0 | |
| 67-66-3 | Chloroform | 5.0 | U | 5.0 | |
| 74-87-3 | Chloromethane | 5.0 | U | 5.0 | |
| 124-48-1 | Dibromochloromethane | 5.0 | U | 5.0 | |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U | 5.0 | |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U | 5.0 | |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U | 5.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U | 5.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U | 5.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U | 5.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U | 5.0 | |
| 100-41-4 | Ethylbenzene | 5.0 | U | 5.0 | |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | |
| 75-09-2 | Methylene Chloride | 5.0 | U | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | |
| 100-42-5 | Styrene | 5.0 | U | 5.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | |
| 127-18-4 | Tetrachloroethene | 5.0 | U | 5.0 | |
| 108-88-3 | Toluene | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | U | 5.0 | |
| 79-01-6 | Trichloroethene | 5.0 | U | 5.0 | |
| 75-01-4 | Vinyl Chloride | 5.0 | U | 5.0 | |
| 95-47-6 | o-Xylene | 5.0 | U | 5.0 | |
| 179601-23-1 | m,p-Xylenes | 5.0 | U | 5.0 | |

ALS ENVIRONMENTAL

Analytical Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1302734
Date Collected: NA
Date Received: NA
Date Analyzed: 4/29/13 16:04

Sample Name: Method Blank
Lab Code: RQ1304450-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa10\data\042913\E8730.D\

Analysis Lot: 338428
Instrument Name: R-MS-10
Dilution Factor: 1

| CAS No. | Analyte Name | Result | Q | MRL | Note |
|---------|----------------------|--------|----------------|---------------|------|
| | Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
| | 4-Bromofluorobenzene | 97 | 85-122 | 4/29/13 16:04 | |
| | Toluene-d8 | 97 | 87-121 | 4/29/13 16:04 | |
| | Dibromofluoromethane | 103 | 89-119 | 4/29/13 16:04 | |

ALS ENVIRONMENTAL

QA/QC Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Analyzed: 4/26/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 338201

| Analyte Name | Lab Control Sample RQ1304362-02 | | | Duplicate Lab Control Sample RQ1304362-03 | | | % Rec Limits | RPD | RPD Limit |
|-----------------------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| Acetone | 19.8 | 20.0 | 99 | 19.0 | 20.0 | 95 | 64 - 133 | 4 | 30 |
| Benzene | 17.7 | 20.0 | 88 | 17.0 | 20.0 | 85 | 78 - 118 | 4 | 30 |
| Bromodichloromethane | 20.5 | 20.0 | 102 | 20.5 | 20.0 | 102 | 79 - 123 | <1 | 30 |
| Bromoform | 27.7 | 20.0 | 139 * | 28.7 | 20.0 | 143 * | 69 - 126 | 3 | 30 |
| Bromomethane | 17.8 | 20.0 | 89 | 17.0 | 20.0 | 85 | 49 - 124 | 4 | 30 |
| 2-Butanone (MEK) | 16.0 | 20.0 | 80 | 17.7 | 20.0 | 88 | 60 - 133 | 10 | 30 |
| Carbon Disulfide | 20.9 | 20.0 | 104 | 19.1 | 20.0 | 95 | 67 - 138 | 9 | 30 |
| Carbon Tetrachloride | 22.7 | 20.0 | 114 | 22.0 | 20.0 | 110 | 64 - 129 | 3 | 30 |
| Chlorobenzene | 18.7 | 20.0 | 93 | 18.2 | 20.0 | 91 | 80 - 121 | 3 | 30 |
| Chloroethane | 19.4 | 20.0 | 97 | 18.5 | 20.0 | 93 | 72 - 130 | 5 | 30 |
| Chloroform | 18.5 | 20.0 | 92 | 18.0 | 20.0 | 90 | 75 - 123 | 3 | 30 |
| Chloromethane | 19.5 | 20.0 | 97 | 18.7 | 20.0 | 94 | 55 - 139 | 4 | 30 |
| Dibromochloromethane | 23.6 | 20.0 | 118 | 24.5 | 20.0 | 122 | 78 - 127 | 4 | 30 |
| 1,1-Dichloroethane | 18.6 | 20.0 | 93 | 17.9 | 20.0 | 90 | 76 - 124 | 4 | 30 |
| 1,2-Dichloroethane | 17.2 | 20.0 | 86 | 17.2 | 20.0 | 86 | 72 - 130 | <1 | 30 |
| 1,1-Dichloroethene | 19.7 | 20.0 | 98 | 16.3 | 20.0 | 82 | 67 - 119 | 19 | 30 |
| cis-1,2-Dichloroethene | 18.0 | 20.0 | 90 | 17.4 | 20.0 | 87 | 77 - 123 | 4 | 30 |
| trans-1,2-Dichloroethene | 18.1 | 20.0 | 90 | 17.3 | 20.0 | 87 | 72 - 120 | 4 | 30 |
| 1,2-Dichloropropane | 19.8 | 20.0 | 99 | 19.5 | 20.0 | 97 | 83 - 119 | 1 | 30 |
| cis-1,3-Dichloropropene | 21.6 | 20.0 | 108 | 21.7 | 20.0 | 108 | 77 - 125 | <1 | 30 |
| trans-1,3-Dichloropropene | 23.2 | 20.0 | 116 | 23.3 | 20.0 | 117 | 69 - 127 | <1 | 30 |
| Ethylbenzene | 18.2 | 20.0 | 91 | 17.6 | 20.0 | 88 | 75 - 123 | 3 | 30 |
| 2-Hexanone | 14.1 | 20.0 | 71 | 16.6 | 20.0 | 83 | 61 - 131 | 16 | 30 |
| Methylene Chloride | 18.7 | 20.0 | 94 | 18.8 | 20.0 | 94 | 73 - 122 | <1 | 30 |
| 4-Methyl-2-pentanone (MIBK) | 15.8 | 20.0 | 79 | 17.8 | 20.0 | 89 | 61 - 132 | 12 | 30 |
| Styrene | 18.3 | 20.0 | 92 | 18.0 | 20.0 | 90 | 80 - 121 | 2 | 30 |
| 1,1,2,2-Tetrachloroethane | 18.5 | 20.0 | 92 | 19.6 | 20.0 | 98 | 72 - 124 | 6 | 30 |
| Tetrachloroethene | 18.9 | 20.0 | 95 | 18.0 | 20.0 | 90 | 71 - 127 | 5 | 30 |
| Toluene | 18.1 | 20.0 | 90 | 17.4 | 20.0 | 87 | 77 - 120 | 4 | 30 |
| 1,1,1-Trichloroethane | 18.6 | 20.0 | 93 | 17.7 | 20.0 | 89 | 67 - 121 | 5 | 30 |
| 1,1,2-Trichloroethane | 18.9 | 20.0 | 95 | 19.7 | 20.0 | 98 | 81 - 117 | 4 | 30 |
| Trichloroethene | 18.2 | 20.0 | 91 | 17.5 | 20.0 | 88 | 75 - 122 | 3 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Analyzed: 4/26/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 338201

| Analyte Name | Lab Control Sample RQ1304362-02 | | | Duplicate Lab Control Sample RQ1304362-03 | | | % Rec Limits | RPD | RPD Limit |
|----------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| Vinyl Chloride | 19.0 | 20.0 | 95 | 18.2 | 20.0 | 91 | 68 - 139 | 4 | 30 |
| o-Xylene | 18.3 | 20.0 | 91 | 17.6 | 20.0 | 88 | 77 - 131 | 4 | 30 |
| m,p-Xylenes | 38.6 | 40.0 | 96 | 37.1 | 40.0 | 93 | 77 - 124 | 4 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Energy Solutions
 Project: Leica 137015
 Sample Matrix: Water

Service Request: R1302734
 Date Analyzed: 4/29/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L

Basis: NA

Analysis Lot: 338428

Lab Control Sample
 RQ1304450-02

| Analyte Name | Result | Spike Amount | % Rec | % Rec Limits |
|-----------------------------|--------|--------------|-------|--------------|
| Acetone | 20.6 | 20.0 | 103 | 64 - 133 |
| Benzene | 17.6 | 20.0 | 88 | 78 - 118 |
| Bromodichloromethane | 20.6 | 20.0 | 103 | 79 - 123 |
| Bromoform | 27.1 | 20.0 | 136 * | 69 - 126 |
| Bromomethane | 13.7 | 20.0 | 68 | 49 - 124 |
| 2-Butanone (MEK) | 16.0 | 20.0 | 80 | 60 - 133 |
| Carbon Disulfide | 25.2 | 20.0 | 126 | 67 - 138 |
| Carbon Tetrachloride | 24.5 | 20.0 | 123 | 64 - 129 |
| Chlorobenzene | 17.6 | 20.0 | 88 | 80 - 121 |
| Chloroethane | 17.2 | 20.0 | 86 | 72 - 130 |
| Chloroform | 17.6 | 20.0 | 88 | 75 - 123 |
| Chloromethane | 17.3 | 20.0 | 87 | 55 - 139 |
| Dibromochloromethane | 23.4 | 20.0 | 117 | 78 - 127 |
| 1,1-Dichloroethane | 18.1 | 20.0 | 90 | 76 - 124 |
| 1,2-Dichloroethane | 17.6 | 20.0 | 88 | 72 - 130 |
| 1,1-Dichloroethene | 19.0 | 20.0 | 95 | 67 - 119 |
| cis-1,2-Dichloroethene | 17.3 | 20.0 | 86 | 77 - 123 |
| trans-1,2-Dichloroethene | 17.2 | 20.0 | 86 | 72 - 120 |
| 1,2-Dichloropropane | 19.2 | 20.0 | 96 | 83 - 119 |
| cis-1,3-Dichloropropene | 22.5 | 20.0 | 113 | 77 - 125 |
| trans-1,3-Dichloropropene | 24.2 | 20.0 | 121 | 69 - 127 |
| Ethylbenzene | 17.2 | 20.0 | 86 | 75 - 123 |
| 2-Hexanone | 16.7 | 20.0 | 84 | 61 - 131 |
| Methylene Chloride | 17.5 | 20.0 | 87 | 73 - 122 |
| 4-Methyl-2-pentanone (MIBK) | 19.0 | 20.0 | 95 | 61 - 132 |
| Styrene | 17.8 | 20.0 | 89 | 80 - 121 |
| 1,1,2,2-Tetrachloroethane | 17.0 | 20.0 | 85 | 72 - 124 |
| Tetrachloroethene | 18.5 | 20.0 | 92 | 71 - 127 |
| Toluene | 17.9 | 20.0 | 89 | 77 - 120 |
| 1,1,1-Trichloroethane | 18.7 | 20.0 | 94 | 67 - 121 |
| 1,1,2-Trichloroethane | 18.2 | 20.0 | 91 | 81 - 117 |
| Trichloroethene | 19.0 | 20.0 | 95 | 75 - 122 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1302734
Date Analyzed: 4/29/13

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L

Basis: NA

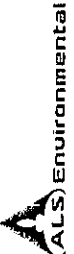
Analysis Lot: 338428

Lab Control Sample
RQ1304450-02

| Analyte Name | Result | Spike Amount | % Rec | % Rec Limits |
|----------------|--------|--------------|-------|--------------|
| Vinyl Chloride | 17.7 | 20.0 | 89 | 68 - 139 |
| o-Xylene | 17.7 | 20.0 | 88 | 77 - 131 |
| m,p-Xylenes | 36.5 | 40.0 | 91 | 77 - 124 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 07443

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 07 OF 07

| Project Name Leica | | Project Number 137015 | | ANALYSIS REQUESTED (Include Method Number and Container Preservative) | | | | | | | | | | | |
|---|-----|---|------|---|---|----------------------|--|--|--|--|--|---|--|---|--|
| Project Manager Bob McPeak | | Report CC D. SLYWKA | | PRESERVATIVE | | NUMBER OF CONTAINERS | | METALS TOTAL (List in comments below) | | METALS DISSOLVED (List in comments below) | | CHAMBER ANALYSIS (List in comments below) | | REMARKS/ALTERNATE DESCRIPTION | |
| Company/Address Energy Solutions 100 Milk Plain Rd Danbury CT 06811 | | Email RmcPeak@EnergySolutions.com | | SAMPLES | | MATRIX | | PESTICIDES ° 8092 ° 808 ° 8081 ° 808 | | PCBS ° 8092 ° 808 | | HOLD IN CHAMBER FOR 1 WEEK @ Ambient Temp prior to analysis to-15 | | PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other | |
| Phone # 801 303 1092 | | Sampler's Signature [Signature] | | SAMPLES | | MATRIX | | GC VOLS ° 8270 ° 825 ° 8260 ° 824 ° CLP | | GC VOLS ° 8021 ° 801/802 | | CHAMBER ANALYSIS TO-15 | | REMARKS/ALTERNATE DESCRIPTION | |
| Client Sample ID | | FOR OFFICE USE ONLY LAB ID | | DATE | | SAMPLING TIME | | GCMS SVOLs ° 8270 ° 825 ° 8260 ° 824 ° CLP | | GC VOLS ° 8021 ° 801/802 | | CHAMBER ANALYSIS TO-15 | | REMARKS/ALTERNATE DESCRIPTION | |
| INT-10 | 001 | 4/16/13 | 1430 | W | 3 | X | | | | | | | | | |
| INT-11 | 002 | 4/16/13 | 1345 | W | 3 | X | | | | | | | | | |
| INT-12 | 003 | 4/18/13 | 1600 | W | 3 | X | | | | | | | | | |
| INT-13 | 004 | 4/18/13 | 1630 | W | 3 | X | | | | | | | | | |
| CC-01 | 001 | 4/19/13 | 1000 | S | 4 | X | | | | | | | | | |
| CC-02 | 002 | 4/19/13 | 1020 | S | 4 | X | | | | | | | | | |
| CC-03 | 003 | 4/19/13 | 0925 | S | 4 | X | | | | | | | | | |
| CC-04 | 004 | 4/19/13 | 0900 | S | 4 | X | | | | | | | | | |
| CC-05 | 005 | 4/19/13 | 1050 | S | 4 | X | | | | | | | | | |

SOILS: R1302733
WATERS: R1302734
TO-15 Chamber Analysis to Soil Valley

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP STATE WHERE SAMPLES WERE COLLECTED **NY**

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
1 day _____ 2 day _____ 3 day _____
4 day _____ 5 day _____

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

INVOICE INFORMATION
PO # _____
BILL TO: _____

Edata Yes No
RELINQUISHED BY **R1302734**
Energy Solutions, Inc.
Leica 137015

RECEIVED BY **[Signature]**
Signature
Printed Name
Firm
Date/Time

RECEIVED BY **[Signature]**
Signature
Printed Name
Firm
Date/Time



Cooler Receipt and Preservation Check Form

Project/Client Energy Solutions Folder Number RVB027BY

Cooler received on 4/19/13 by: (M) COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
- Were Ice or Ice packs present? YES NO
- Where did the bottles originate? ALS/ROC CLIENT
- Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
- Temperature of cooler(s) upon receipt: 2.0°

Is the temperature within 0° - 6° C?: Y N Y N Y N Y N Y N

If No, Explain Below Date/Time Temperatures Taken: 4/19/13 1340

Thermometer ID: R GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location R-002 by (M) on 4/19/13 at 1345
 5035 samples placed in storage location F-05 by (M) on 4/19/13 at 1345

PC Secondary Review: KB 4/19/13

Cooler Breakdown: Date: 4/19/13 Time: 1644 by: (M)

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

| pH | Reagent | YES | NO | Lot Received | Exp | Sample ID | Vol. Added | Lot Added | Final pH | Yes = All samples OK No = Samples were preserved at lab as listed PM OK to Adjust: |
|-----------------------|---|-----|----|---|-------------|-----------|------------|-----------|----------|---|
| ≥12 | NaOH | | | | | | | | | |
| ≤2 | HNO ₃ | | | | | | | | | |
| ≤2 | H ₂ SO ₄ | | | | | | | | | |
| ≤4 | NaHSO ₄ | | | | | | | | | |
| Residual Chlorine (-) | For TCN Phenol and 522 | | | If present, contact PM to add ascorbic acid Or sodium sulfite (522) | | | | | | *Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet |
| | Na ₂ S ₂ O ₃ | - | - | | | | | | | |
| | Zn Aceta | - | - | | | | | | | |
| | HCl | * | * | <u>411100</u> | <u>8/13</u> | | | | | |

bottle lot numbers: 2-143-001

Other Comments:

PC Secondary Review: KB 5/6/13

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