



STONY HOLLOW LANDFILL, INC.
2460 S. Gettysburg Ave.
Dayton, OH 45418
(937) 268-1133
(937) 267-5110 Fax

February 9, 2017

Ms. Eileen Moran
Unit Supervisor
Regional Air Pollution Control Agency
117 South Main Street
Dayton, OH 45422

Re: DIFO Order No. 6 Ambient Air Monitoring – February 6-7, 2017
Stony Hollow Landfill
Facility ID No. 08-57-04-3008

Dear Ms. Moran:

Stony Hollow Landfill, Inc. (Stony Hollow) contracted with LJB, Inc. (LJB) to perform the ambient air monitoring on the 1 in 6-day schedule as required by the Director's Interim Findings and Orders, dated November 28, 2016. The 24-hour ambient air sampling was performed between February 6-7, 2017 and ALS Environmental performed the USEPA Method TO-15 analysis.

Please find attached to this submittal letter the LJB ambient air monitoring report, which includes the analytical results. Per a review of the analytical results, the measured concentrations within the air samples were below the laboratory reporting limits or the NIOSH RELs.

If you have any questions, please contact the undersigned at (937) 356-6204.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Peter C. Lucas'.

Peter Lucas, P.E.
District Engineer

cc: Russell Brown, Michelle Ackenhausen - Ohio EPA
Stony Hollow files



February 9, 2017

Mr. Peter Lucas
 Waste Management – Stony Hollow Landfill
 2460 South Gettysburg Avenue
 Dayton, Ohio 45417

Via email: plucas2@wm.com

Re: February 6, 2017 ambient air sampling at Stony Hollow Landfill

Dear Mr. Lucas:

On February 6 and 7, 2017 LJB Inc. collected two 24-hour ambient air samples at the Waste Management Stony Hollow Landfill. The samples included AA-17, collected from inside the north fence line of the landfill, and AA-18, collected from inside the south fence line of the landfill. A map of the sample locations is attached. Sample locations were in accordance with the November 28, 2016 Ohio EPA Interim Findings and Orders for Stony Hollow Landfill. Table 1 contains sample equipment and interval details. Note that sample AA-17 was completed approximately 30 minutes prior to the full 24-hour sample interval and AA-18 was completed one hour early. This was because the canister pressures had already reached a pressure at which there is a risk that the flow controller will no longer be able to maintain a stable pressure differential across the critical orifice, resulting in a sample skewed toward air collected early in the sample period.

TABLE 1

| SAMPLE NO. | START DATE/TIME | END DATE/TIME | START PRESSURE | END PRESSURE | CANISTER NO. | CONTROLLER NO. |
|------------|---------------------|---------------------|----------------|--------------|--------------|----------------|
| AA-17 | 02/06/2017 09:33 | 02/07/2017 09:00 | -29.3" Hg | -4.8" Hg | 109092 | 108982 |
| AA-18 | 02/06/2017 09:49 | 02/07/2017 08:49 | -30" Hg | -4" Hg | 101805 | 109046 |

Weather conditions reported for the sample period by the weather station located at Sinclair Community College are shown in the attached graphs, reproduced from the weather station's data page at <https://www.wunderground.com>.

The completed samples were transported by courier from the LJB offices to ALS Environmental laboratory in Cincinnati, Ohio on February 7, 2017 and were analyzed by EPA Method TO-15 the same day per the one-day turnaround time previously arranged. Table 2 provides the summarized sample results. The following chemicals were detected above laboratory reporting limits: 2-butanone, 2-propanol and m- and p-xylenes in sample AA-17 and acetone, chloromethane, dichlorodifluoromethane and toluene in both samples. Concentrations of all detected chemicals were well below the NIOSH RELs for these compounds.

TABLE 2

| ANALYTE | AA-17, ppbv | AA-18, ppbv | NIOSH REL, ppbv |
|---------------------------|-------------|-------------|-----------------|
| 1,1,1-Trichloroethane | < 0.50 | < 0.50 | 350,000 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | < 0.50 | 1,000 |
| 1,1,2-Trichloroethane | < 0.50 | < 0.50 | 10,000 |
| 1,1-Dichloroethane | < 0.50 | < 0.50 | 100,000 |
| 1,1-Dichloroethene | < 0.50 | < 0.50 | 200,000 |
| 1,2,4-Trichlorobenzene | < 0.50 | < 0.50 | 5,000 |
| 1,2,4-Trimethylbenzene | < 0.50 | < 0.50 | 25,000 |
| 1,2-Dibromoethane | < 0.50 | < 0.50 | 45 |
| 1,2-Dichlorobenzene | < 0.50 | < 0.50 | 50,000 |
| 1,2-Dichloroethane | < 0.50 | < 0.50 | 1,000 |
| 1,2-Dichloropropane | < 0.50 | < 0.50 | 75,000 |
| 1,3,5-Trimethylbenzene | < 0.50 | < 0.50 | 25,000 |
| 1,3-Butadiene | < 0.50 | < 0.50 | 1,000 |
| 1,3-Dichlorobenzene | < 0.50 | < 0.50 | 50,000 |
| 1,4-Dichlorobenzene | < 0.50 | < 0.50 | 50,000 |
| 1,4-Dioxane | < 1.0 | < 1.0 | NA |
| 2-Butanone | 1.8 | < 0.50 | 200 |
| 2-Hexanone | < 0.50 | < 0.50 | 1,000 |
| 2-Propanol | 2.2 | < 1.0 | 400,000 |
| 4-Ethyltoluene | < 0.50 | < 0.50 | NA |
| 4-Methyl-2-pentanone | < 0.50 | < 0.50 | 50,000 |
| Acetone | 4.0 | 2.2 | 250,000 |
| Benzene | < 0.50 | < 0.50 | 100 |
| Benzyl chloride | < 0.50 | < 0.50 | 1,000 |
| Bromodichloromethane | < 0.50 | < 0.50 | NA |
| Bromoform | < 0.50 | < 0.50 | 500 |
| Bromomethane | < 0.50 | < 0.50 | 20,000 |
| Carbon disulfide | < 0.50 | < 0.50 | 1,000 |
| Carbon tetrachloride | < 0.50 | < 0.50 | 2,000 |
| Chlorobenzene | < 0.50 | < 0.50 | 75,000 |
| Chloroethane | < 0.50 | < 0.50 | 1,000,000 |
| Chloroform | < 0.20 | < 0.20 | 2,000 |
| Chloromethane | 0.55 | 0.57 | 100,000 |
| cis-1,2-Dichloroethene | < 0.50 | < 0.50 | 200,000 |
| cis-1,3-Dichloropropene | < 0.50 | < 0.50 | 1,000 |
| Cumene | < 0.50 | < 0.50 | 50,000 |
| Cyclohexane | < 0.50 | < 0.50 | 300,000 |
| Dibromochloromethane | < 0.50 | < 0.50 | NA |
| Dichlorodifluoromethane | 0.50 | 0.50 | 1,000,000 |
| Ethyl acetate | < 0.50 | < 0.50 | 400,000 |
| Ethylbenzene | < 0.50 | < 0.50 | 100,000 |
| Freon 113 | < 0.50 | < 0.50 | 1,000,000 |
| Freon 114 | < 0.50 | < 0.50 | 1,000,000 |
| Heptane | < 0.50 | < 0.50 | 85,000 |
| Hexachlorobutadiene | < 0.50 | < 0.50 | 20 |

Mr. Peter Lucas: February 6, 2017 ambient air sampling
February 9, 2017
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| ANALYTE | AA-17, ppbv | AA-18, ppbv | NIOSH REL, ppbv |
|---------------------------|-------------|-------------|-----------------|
| Hexane | < 0.50 | < 0.50 | 50,000 |
| m,p-Xylene | 0.58 | < 0.50 | 100,000 |
| Methylene chloride | < 0.50 | < 0.50 | 25,000 |
| MTBE | < 0.50 | < 0.50 | 2,000 |
| Naphthalene | < 0.20 | < 0.20 | 10,000 |
| o-Xylene | < 0.50 | < 0.50 | 100,000 |
| Propene | < 0.50 | < 0.50 | NA |
| Styrene | < 0.50 | < 0.50 | 50,000 |
| Tetrachloroethene | < 0.50 | < 0.50 | 100,000 |
| Tetrahydrofuran | < 0.50 | < 0.50 | 200,000 |
| Toluene | 1.5 | 0.68 | 100,000 |
| trans-1,2-Dichloroethene | < 0.50 | < 0.50 | 200,000 |
| trans-1,3-Dichloropropene | < 0.50 | < 0.50 | 1,000 |
| Trichloroethene | < 0.20 | < 0.20 | 100,000 |
| Trichlorofluoromethane | < 0.50 | < 0.50 | 1,000,000 |
| Vinyl acetate | < 0.50 | < 0.50 | 4,000 |
| Vinyl chloride | < 0.50 | < 0.50 | 1,000 |

The ALS Environmental laboratory report and chain of custody form are attached. Please let me know if you have any questions.

Sincerely,

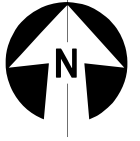
LJB Inc.



Jennifer K. Miller
Environmental Scientist

Stony Hollow Landfill

Air sample location

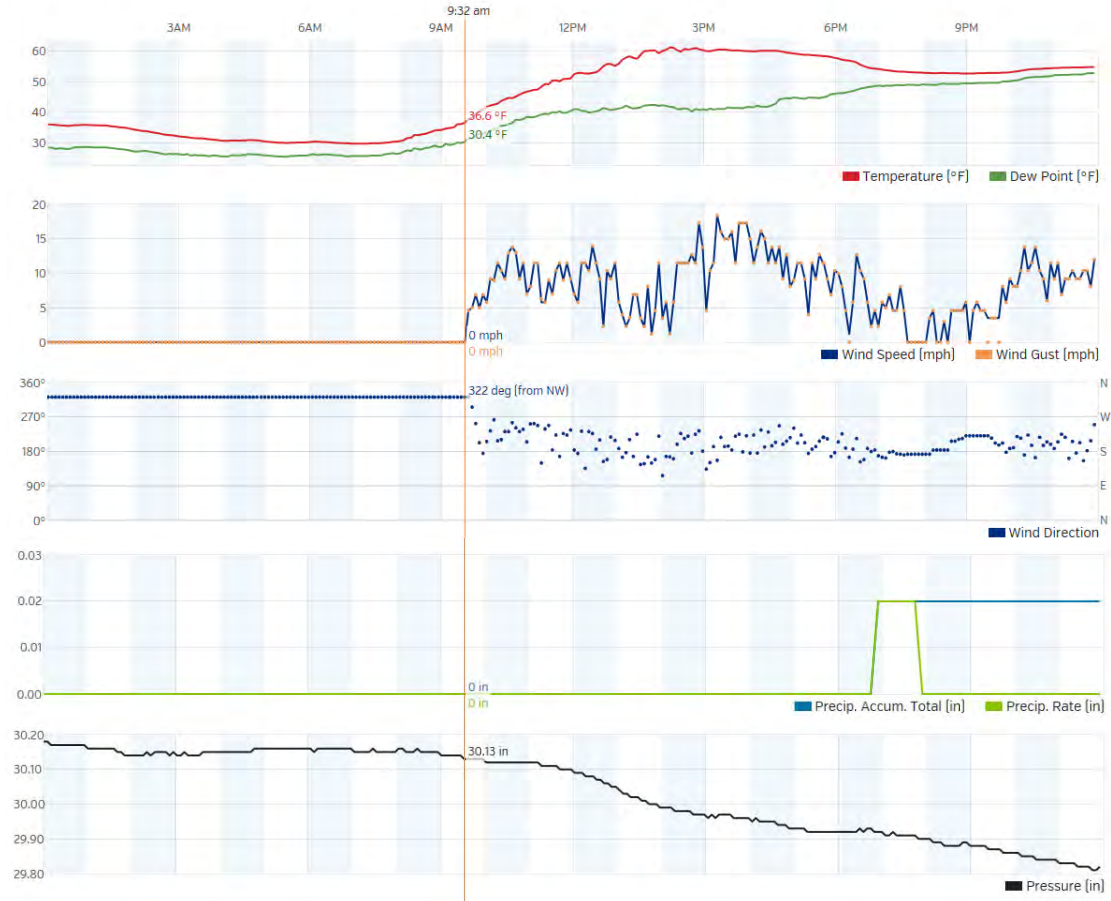


0 200 400 800 Feet

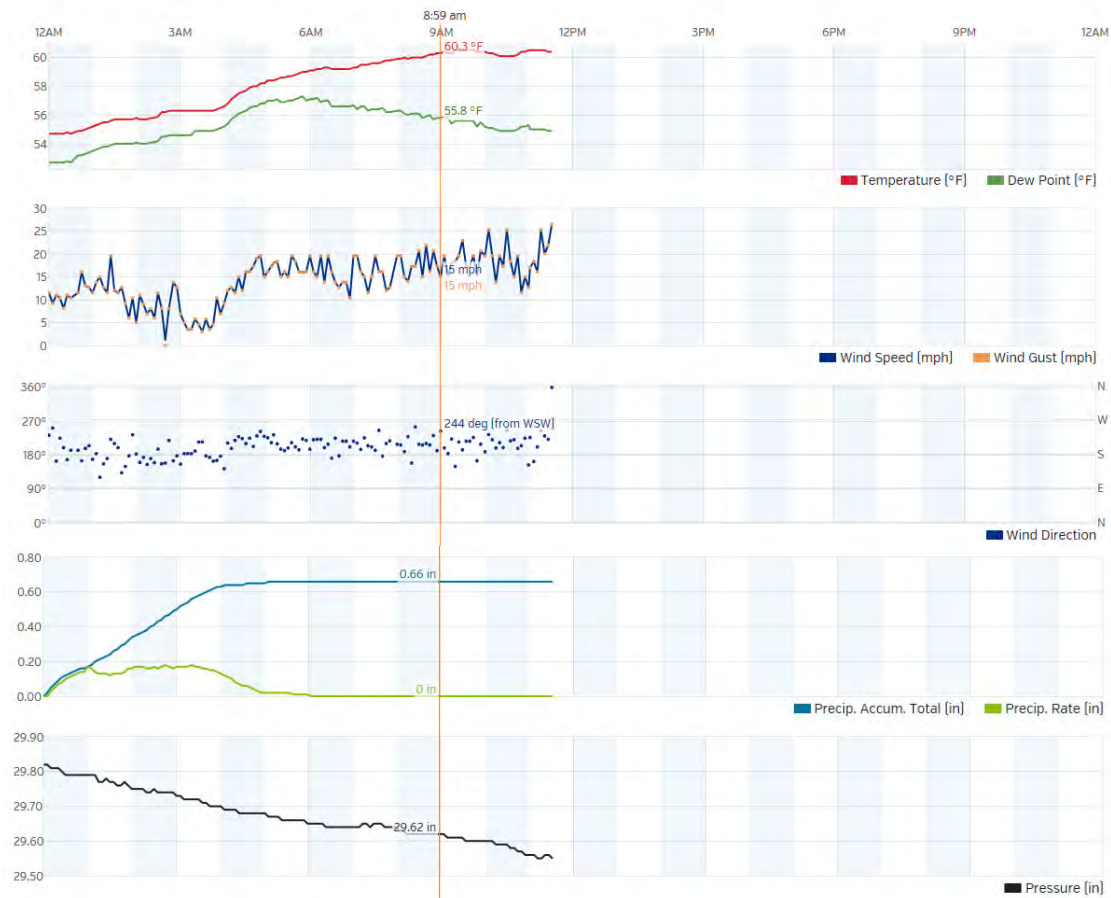
> Waste Management Stony Hollow Landfill
Ambient Air Sample Locations



Weather History Graph
February 6, 2017



Weather History Graph
Feb 7, 2017





09-Feb-2017

Jennifer Miller
Waste Management
2460 S. Gettysburg Rd
Dayton, OH 45417

Tel: (937) 689-3638
Fax:

Re: Stony Hollow Landfill

Work Order: **1702209**

Dear Jennifer,

ALS Environmental received 2 samples on 07-Feb-2017 10:07 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 16.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Rob Nieman

Electronically approved by: Rob Nieman

Rob Nieman
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Waste Management
Project: Stony Hollow Landfill
Work Order: 1702209

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1702209-01 | AA-17 L.fill N | Air | | 2/7/2017 | 2/7/2017 | <input type="checkbox"/> |
| 1702209-02 | AA-18 Landfill S | Air | | 2/7/2017 | 2/7/2017 | <input type="checkbox"/> |

ALS Environmental

Date: 09-Feb-17

Client: Waste Management
Project: Stony Hollow Landfill
Sample ID: AA-17 L.fill N
Collection Date: 2/7/2017

Work Order: 1702209
Lab ID: 1702209-01
Matrix: AIR

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--------------------------------|-------------|------|---------------|-------------|-----------------|---------------------|
| TO-15 BY GC/MS | | | ETO-15 | | | Analyst: MRJ |
| 1,1,1-Trichloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,1,2-Trichloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,1-Dichloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,1-Dichloroethene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,2-Dibromoethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,2-Dichlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,2-Dichloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,2-Dichloropropane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,3-Butadiene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,3-Dichlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,4-Dichlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 1,4-Dioxane | ND | | 1.0 | ppbv | 1 | 2/7/2017 05:48 PM |
| 2-Butanone | 1.8 | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 2-Hexanone | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 2-Propanol | 2.2 | | 1.0 | ppbv | 1 | 2/7/2017 05:48 PM |
| 4-Ethyltoluene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| 4-Methyl-2-pentanone | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Acetone | 4.0 | | 1.0 | ppbv | 1 | 2/7/2017 05:48 PM |
| Benzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Benzyl chloride | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Bromodichloromethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Bromoform | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Bromomethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Carbon disulfide | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Carbon tetrachloride | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Chlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Chloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Chloroform | ND | | 0.20 | ppbv | 1 | 2/7/2017 05:48 PM |
| Chloromethane | 0.55 | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| cis-1,2-Dichloroethene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| cis-1,3-Dichloropropene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Cumene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Cyclohexane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Dibromochloromethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Dichlorodifluoromethane | 0.50 | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |

Note:

ALS Environmental

Date: 09-Feb-17

Client: Waste Management
Project: Stony Hollow Landfill
Sample ID: AA-17 L.fill N
Collection Date: 2/7/2017

Work Order: 1702209
Lab ID: 1702209-01
Matrix: AIR

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---------------------------------|-------------|------|--------------|-------------|-----------------|-------------------|
| Ethyl acetate | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Ethylbenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Freon 113 | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Freon 114 | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Heptane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Hexachlorobutadiene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Hexane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| m,p-Xylene | 0.58 | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Methylene chloride | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| MTBE | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Naphthalene | ND | | 0.20 | ppbv | 1 | 2/7/2017 05:48 PM |
| o-Xylene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Propene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Styrene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Tetrachloroethene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Tetrahydrofuran | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Toluene | 1.5 | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| trans-1,2-Dichloroethene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| trans-1,3-Dichloropropene | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Trichloroethene | ND | | 0.20 | ppbv | 1 | 2/7/2017 05:48 PM |
| Trichlorofluoromethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Vinyl acetate | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| Vinyl chloride | ND | | 0.50 | ppbv | 1 | 2/7/2017 05:48 PM |
| <i>Surr: Bromofluorobenzene</i> | 128 | | 60-140 | %REC | 1 | 2/7/2017 05:48 PM |

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

| | | | | | | |
|---------------------------|----|--|------|-------|---|-------------------|
| 1,1,1-Trichloroethane | ND | | 2.73 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,1,2,2-Tetrachloroethane | ND | | 3.43 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,1,2-Trichloroethane | ND | | 2.73 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,1-Dichloroethane | ND | | 2.02 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,1-Dichloroethene | ND | | 1.98 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,2,4-Trichlorobenzene | ND | | 3.71 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,2,4-Trimethylbenzene | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,2-Dibromoethane | ND | | 3.84 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,2-Dichlorobenzene | ND | | 3.01 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,2-Dichloroethane | ND | | 2.02 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,2-Dichloropropane | ND | | 2.31 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,3,5-Trimethylbenzene | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,3-Butadiene | ND | | 1.11 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,3-Dichlorobenzene | ND | | 3.01 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 1,4-Dichlorobenzene | ND | | 3.01 | µg/m3 | 1 | 2/7/2017 05:48 PM |

Note:

ALS Environmental

Date: 09-Feb-17

Client: Waste Management
Project: Stony Hollow Landfill
Sample ID: AA-17 L.fill N
Collection Date: 2/7/2017

Work Order: 1702209
Lab ID: 1702209-01
Matrix: AIR

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--------------------------------|-------------|------|--------------|--------------|-----------------|-------------------|
| 1,4-Dioxane | ND | | 3.60 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 2-Butanone | 5.37 | | 1.47 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 2-Hexanone | ND | | 2.05 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 2-Propanol | 5.53 | | 2.46 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 4-Ethyltoluene | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| 4-Methyl-2-pentanone | ND | | 2.05 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Acetone | 9.38 | | 2.38 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Benzene | ND | | 1.60 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Benzyl chloride | ND | | 2.59 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Bromodichloromethane | ND | | 3.35 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Bromoform | ND | | 5.17 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Bromomethane | ND | | 1.94 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Carbon disulfide | ND | | 1.56 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Carbon tetrachloride | ND | | 3.15 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Chlorobenzene | ND | | 2.30 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Chloroethane | ND | | 1.32 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Chloroform | ND | | 0.976 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Chloromethane | 1.14 | | 1.03 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| cis-1,2-Dichloroethene | ND | | 1.98 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| cis-1,3-Dichloropropene | ND | | 2.27 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Cumene | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Cyclohexane | ND | | 1.72 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Dibromochloromethane | ND | | 4.26 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Dichlorodifluoromethane | 2.47 | | 2.47 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Ethyl acetate | ND | | 1.80 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Ethylbenzene | ND | | 2.17 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Freon 113 | ND | | 3.83 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Freon 114 | ND | | 3.50 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Heptane | ND | | 2.05 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Hexachlorobutadiene | ND | | 5.33 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Hexane | ND | | 1.76 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| m,p-Xylene | 2.52 | | 2.17 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Methylene chloride | ND | | 1.74 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| MTBE | ND | | 1.80 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Naphthalene | ND | | 1.05 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| o-Xylene | ND | | 2.17 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Propene | ND | | 0.861 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Styrene | ND | | 2.13 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Tetrachloroethene | ND | | 3.39 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Tetrahydrofuran | ND | | 1.47 | µg/m3 | 1 | 2/7/2017 05:48 PM |

Note:

ALS Environmental

Date: 09-Feb-17

Client: Waste Management
Project: Stony Hollow Landfill
Sample ID: AA-17 L.fill N
Collection Date: 2/7/2017

Work Order: 1702209
Lab ID: 1702209-01
Matrix: AIR

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---------------------------|-------------|------|--------------|--------------|-----------------|-------------------|
| Toluene | 5.73 | | 1.88 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| trans-1,2-Dichloroethene | ND | | 1.98 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| trans-1,3-Dichloropropene | ND | | 2.27 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Trichloroethene | ND | | 1.07 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Trichlorofluoromethane | ND | | 2.81 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Vinyl acetate | ND | | 1.76 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Vinyl chloride | ND | | 1.28 | µg/m3 | 1 | 2/7/2017 05:48 PM |
| Surr: Bromofluorobenzene | 128 | | 60-140 | %REC | 1 | 2/7/2017 05:48 PM |

Note:

ALS Environmental

Date: 09-Feb-17

Client: Waste Management
Project: Stony Hollow Landfill
Sample ID: AA-18 Landfill S
Collection Date: 2/7/2017

Work Order: 1702209
Lab ID: 1702209-02
Matrix: AIR

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--------------------------------|-------------|------|---------------|-------------|-----------------|---------------------|
| TO-15 BY GC/MS | | | ETO-15 | | | Analyst: MRJ |
| 1,1,1-Trichloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,1,2-Trichloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,1-Dichloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,1-Dichloroethene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,2-Dibromoethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,2-Dichlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,2-Dichloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,2-Dichloropropane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,3-Butadiene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,3-Dichlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,4-Dichlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 1,4-Dioxane | ND | | 1.0 | ppbv | 1 | 2/7/2017 06:33 PM |
| 2-Butanone | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 2-Hexanone | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 2-Propanol | ND | | 1.0 | ppbv | 1 | 2/7/2017 06:33 PM |
| 4-Ethyltoluene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| 4-Methyl-2-pentanone | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Acetone | 2.2 | | 1.0 | ppbv | 1 | 2/7/2017 06:33 PM |
| Benzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Benzyl chloride | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Bromodichloromethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Bromoform | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Bromomethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Carbon disulfide | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Carbon tetrachloride | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Chlorobenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Chloroethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Chloroform | ND | | 0.20 | ppbv | 1 | 2/7/2017 06:33 PM |
| Chloromethane | 0.57 | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| cis-1,2-Dichloroethene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| cis-1,3-Dichloropropene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Cumene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Cyclohexane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Dibromochloromethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Dichlorodifluoromethane | 0.50 | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |

Note:

ALS Environmental

Date: 09-Feb-17

Client: Waste Management
Project: Stony Hollow Landfill
Sample ID: AA-18 Landfill S
Collection Date: 2/7/2017

Work Order: 1702209
Lab ID: 1702209-02
Matrix: AIR

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---------------------------------|-------------|------|--------------|-------------|-----------------|-------------------|
| Ethyl acetate | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Ethylbenzene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Freon 113 | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Freon 114 | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Heptane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Hexachlorobutadiene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Hexane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| m,p-Xylene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Methylene chloride | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| MTBE | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Naphthalene | ND | | 0.20 | ppbv | 1 | 2/7/2017 06:33 PM |
| o-Xylene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Propene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Styrene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Tetrachloroethene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Tetrahydrofuran | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Toluene | 0.68 | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| trans-1,2-Dichloroethene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| trans-1,3-Dichloropropene | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Trichloroethene | ND | | 0.20 | ppbv | 1 | 2/7/2017 06:33 PM |
| Trichlorofluoromethane | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Vinyl acetate | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| Vinyl chloride | ND | | 0.50 | ppbv | 1 | 2/7/2017 06:33 PM |
| <i>Surr: Bromofluorobenzene</i> | 121 | | 60-140 | %REC | 1 | 2/7/2017 06:33 PM |

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

| | | | | | | |
|---------------------------|----|--|------|-------|---|-------------------|
| 1,1,1-Trichloroethane | ND | | 2.73 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,1,2,2-Tetrachloroethane | ND | | 3.43 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,1,2-Trichloroethane | ND | | 2.73 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,1-Dichloroethane | ND | | 2.02 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,1-Dichloroethene | ND | | 1.98 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,2,4-Trichlorobenzene | ND | | 3.71 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,2,4-Trimethylbenzene | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,2-Dibromoethane | ND | | 3.84 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,2-Dichlorobenzene | ND | | 3.01 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,2-Dichloroethane | ND | | 2.02 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,2-Dichloropropane | ND | | 2.31 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,3,5-Trimethylbenzene | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,3-Butadiene | ND | | 1.11 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,3-Dichlorobenzene | ND | | 3.01 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 1,4-Dichlorobenzene | ND | | 3.01 | µg/m3 | 1 | 2/7/2017 06:33 PM |

Note:

ALS Environmental

Date: 09-Feb-17

Client: Waste Management
Project: Stony Hollow Landfill
Sample ID: AA-18 Landfill S
Collection Date: 2/7/2017

Work Order: 1702209
Lab ID: 1702209-02
Matrix: AIR

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--------------------------------|-------------|------|--------------|--------------|-----------------|-------------------|
| 1,4-Dioxane | ND | | 3.60 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 2-Butanone | ND | | 1.47 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 2-Hexanone | ND | | 2.05 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 2-Propanol | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 4-Ethyltoluene | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| 4-Methyl-2-pentanone | ND | | 2.05 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Acetone | 5.25 | | 2.38 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Benzene | ND | | 1.60 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Benzyl chloride | ND | | 2.59 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Bromodichloromethane | ND | | 3.35 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Bromoform | ND | | 5.17 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Bromomethane | ND | | 1.94 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Carbon disulfide | ND | | 1.56 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Carbon tetrachloride | ND | | 3.15 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Chlorobenzene | ND | | 2.30 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Chloroethane | ND | | 1.32 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Chloroform | ND | | 0.976 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Chloromethane | 1.18 | | 1.03 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| cis-1,2-Dichloroethene | ND | | 1.98 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| cis-1,3-Dichloropropene | ND | | 2.27 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Cumene | ND | | 2.46 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Cyclohexane | ND | | 1.72 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Dibromochloromethane | ND | | 4.26 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Dichlorodifluoromethane | 2.47 | | 2.47 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Ethyl acetate | ND | | 1.80 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Ethylbenzene | ND | | 2.17 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Freon 113 | ND | | 3.83 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Freon 114 | ND | | 3.50 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Heptane | ND | | 2.05 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Hexachlorobutadiene | ND | | 5.33 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Hexane | ND | | 1.76 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| m,p-Xylene | ND | | 2.17 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Methylene chloride | ND | | 1.74 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| MTBE | ND | | 1.80 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Naphthalene | ND | | 1.05 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| o-Xylene | ND | | 2.17 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Propene | ND | | 0.861 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Styrene | ND | | 2.13 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Tetrachloroethene | ND | | 3.39 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Tetrahydrofuran | ND | | 1.47 | µg/m3 | 1 | 2/7/2017 06:33 PM |

Note:

ALS Environmental

Date: 09-Feb-17

Client: Waste Management
Project: Stony Hollow Landfill
Sample ID: AA-18 Landfill S
Collection Date: 2/7/2017

Work Order: 1702209
Lab ID: 1702209-02
Matrix: AIR

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---------------------------|-------------|------|--------------|--------------|-----------------|-------------------|
| Toluene | 2.56 | | 1.88 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| trans-1,2-Dichloroethene | ND | | 1.98 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| trans-1,3-Dichloropropene | ND | | 2.27 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Trichloroethene | ND | | 1.07 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Trichlorofluoromethane | ND | | 2.81 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Vinyl acetate | ND | | 1.76 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Vinyl chloride | ND | | 1.28 | µg/m3 | 1 | 2/7/2017 06:33 PM |
| Surr: Bromofluorobenzene | 121 | | 60-140 | %REC | 1 | 2/7/2017 06:33 PM |

Note:

ALS Environmental

Date: 09-Feb-17

Client: Waste Management

QC BATCH REPORT

Work Order: 1702209

Project: Stony Hollow Landfill

Batch ID: R137455

Instrument ID: VMS4

Method: ETO-15

| mbk | | Sample ID: MBLK-R137455 | | | Units: ppbv | | Analysis Date: 2/7/2017 05:04 PM | | | |
|---------------------------|--------|-------------------------|---------|---------------|----------------|---------------|----------------------------------|------|-----------|------|
| Client ID: | | Run ID: VMS4_170207A | | | SeqNo: 1443921 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | ND | 0.50 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.50 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | | | | | | | |
| 1,3-Butadiene | ND | 0.50 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | | | | | | | | |
| 2-Butanone | ND | 0.50 | | | | | | | | |
| 2-Hexanone | ND | 0.50 | | | | | | | | |
| 2-Propanol | ND | 1.0 | | | | | | | | |
| 4-Ethyltoluene | ND | 0.50 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 0.50 | | | | | | | | |
| Acetone | ND | 1.0 | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | |
| Benzyl chloride | ND | 0.50 | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | | | | | | | | |
| Bromoform | ND | 0.50 | | | | | | | | |
| Bromomethane | ND | 0.50 | | | | | | | | |
| Carbon disulfide | ND | 0.50 | | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | | | | | | | | |
| Chlorobenzene | ND | 0.50 | | | | | | | | |
| Chloroethane | ND | 0.50 | | | | | | | | |
| Chloroform | ND | 0.20 | | | | | | | | |
| Chloromethane | ND | 0.50 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | | | | | | | | |
| Cumene | ND | 0.50 | | | | | | | | |
| Cyclohexane | ND | 0.50 | | | | | | | | |
| Dibromochloromethane | ND | 0.50 | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | | | |
| Ethyl acetate | ND | 0.50 | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Waste Management
Work Order: 1702209
Project: Stony Hollow Landfill

QC BATCH REPORT

| Batch ID: R137455 | Instrument ID: VMS4 | Method: ETO-15 | | | | | | |
|---------------------------------|----------------------------|-----------------------|----|---|------|--------|---|--|
| Freon 113 | ND | 0.50 | | | | | | |
| Freon 114 | ND | 0.50 | | | | | | |
| Heptane | ND | 0.50 | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | | | | | | |
| Hexane | ND | 0.50 | | | | | | |
| m,p-Xylene | ND | 0.50 | | | | | | |
| Methylene chloride | ND | 0.50 | | | | | | |
| MTBE | ND | 0.50 | | | | | | |
| Naphthalene | ND | 0.20 | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | |
| Propene | ND | 0.50 | | | | | | |
| Styrene | ND | 0.50 | | | | | | |
| Tetrachloroethene | ND | 0.50 | | | | | | |
| Tetrahydrofuran | ND | 0.50 | | | | | | |
| Toluene | ND | 0.50 | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | | | | | | |
| Trichloroethene | ND | 0.20 | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | | | | | | |
| Vinyl acetate | ND | 0.50 | | | | | | |
| Vinyl chloride | ND | 0.50 | | | | | | |
| <i>Surr: Bromofluorobenzene</i> | 9.86 | 0 | 10 | 0 | 98.6 | 60-140 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Waste Management
 Work Order: 1702209
 Project: Stony Hollow Landfill

QC BATCH REPORT

Batch ID: R137455 Instrument ID: VMS4 Method: ETO-15

| ics | | Sample ID: LCS-R137455 | | | | Units: ppbv | | Analysis Date: 2/7/2017 10:22 AM | | | |
|---------------------------|--------|------------------------|---------|---------------|------|----------------|---------------|----------------------------------|-----------|-------|--|
| Client ID: | | Run ID: VMS4_170207A | | | | SeqNo: 1443920 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1,1-Trichloroethane | 10.71 | 0.50 | 10 | 0 | 107 | 58.8-163 | 0 | | | | |
| 1,1,2,2-Tetrachloroethane | 10.65 | 0.50 | 10 | 0 | 106 | 60-140 | 0 | | | | |
| 1,1,2-Trichloroethane | 10.16 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | | | | |
| 1,1-Dichloroethane | 10.27 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | | | | |
| 1,1-Dichloroethene | 10.23 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | | | | |
| 1,2,4-Trichlorobenzene | 8.32 | 0.50 | 10 | 0 | 83.2 | 49.3-150 | 0 | | | | |
| 1,2,4-Trimethylbenzene | 10.53 | 0.50 | 10 | 0 | 105 | 50.1-162 | 0 | | | | |
| 1,2-Dibromoethane | 10.2 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | | | | |
| 1,2-Dichlorobenzene | 10.35 | 0.50 | 10 | 0 | 104 | 41.9-141 | 0 | | | | |
| 1,2-Dichloroethane | 10.94 | 0.50 | 10 | 0 | 109 | 60-140 | 0 | | | | |
| 1,2-Dichloropropane | 10.29 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | | | | |
| 1,3,5-Trimethylbenzene | 10.61 | 0.50 | 10 | 0 | 106 | 60-140 | 0 | | | | |
| 1,3-Butadiene | 11.19 | 0.50 | 10 | 0 | 112 | 50.6-140 | 0 | | | | |
| 1,3-Dichlorobenzene | 10.31 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | | | | |
| 1,4-Dichlorobenzene | 10.04 | 0.50 | 10 | 0 | 100 | 55.1-145 | 0 | | | | |
| 1,4-Dioxane | 8.46 | 1.0 | 10 | 0 | 84.6 | 60-140 | 0 | | | | |
| 2-Butanone | 10.1 | 0.50 | 10 | 0 | 101 | 60-140 | 0 | | | | |
| 2-Hexanone | 8.48 | 0.50 | 10 | 0 | 84.8 | 56.2-162 | 0 | | | | |
| 2-Propanol | 9.95 | 1.0 | 10 | 0 | 99.5 | 60-140 | 0 | | | | |
| 4-Ethyltoluene | 10.58 | 0.50 | 10 | 0 | 106 | 60-140 | 0 | | | | |
| 4-Methyl-2-pentanone | 9.66 | 0.50 | 10 | 0 | 96.6 | 60-140 | 0 | | | | |
| Acetone | 9.7 | 1.0 | 10 | 0 | 97 | 60-140 | 0 | | | | |
| Benzene | 10.28 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | | | | |
| Benzyl chloride | 10.11 | 0.50 | 10 | 0 | 101 | 31.9-174 | 0 | | | | |
| Bromodichloromethane | 10.83 | 0.50 | 10 | 0 | 108 | 60-140 | 0 | | | | |
| Bromoform | 11.11 | 0.50 | 10 | 0 | 111 | 60-140 | 0 | | | | |
| Bromomethane | 10.62 | 0.50 | 10 | 0 | 106 | 60-140 | 0 | | | | |
| Carbon disulfide | 10.3 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | | | | |
| Carbon tetrachloride | 10.93 | 0.50 | 10 | 0 | 109 | 60-140 | 0 | | | | |
| Chlorobenzene | 10.25 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | | | | |
| Chloroethane | 10.24 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | | | | |
| Chloroform | 10.62 | 0.20 | 10 | 0 | 106 | 60-140 | 0 | | | | |
| Chloromethane | 9.69 | 0.50 | 10 | 0 | 96.9 | 60-140 | 0 | | | | |
| cis-1,2-Dichloroethene | 10.24 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | | | | |
| cis-1,3-Dichloropropene | 10.49 | 0.50 | 10 | 0 | 105 | 60-140 | 0 | | | | |
| Cumene | 10.6 | 0.50 | 10 | 0 | 106 | 60-140 | 0 | | | | |
| Cyclohexane | 10.35 | 0.50 | 10 | 0 | 104 | 60-140 | 0 | | | | |
| Dibromochloromethane | 10.66 | 0.50 | 10 | 0 | 107 | 60-140 | 0 | | | | |
| Dichlorodifluoromethane | 10.45 | 0.50 | 10 | 0 | 104 | 60-140 | 0 | | | | |
| Ethyl acetate | 10.24 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | | | | |
| Ethylbenzene | 10.33 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | | | | |
| Freon 113 | 10.16 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Waste Management
Work Order: 1702209
Project: Stony Hollow Landfill

QC BATCH REPORT

| Batch ID: R137455 | Instrument ID: VMS4 | | Method: ETO-15 | | | | | |
|---------------------------|----------------------------|------|-----------------------|---|------|----------|---|--|
| Freon 114 | 10.34 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | |
| Heptane | 10.17 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | |
| Hexachlorobutadiene | 10 | 0.50 | 10 | 0 | 100 | 60-140 | 0 | |
| Hexane | 10.31 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | |
| m,p-Xylene | 20.75 | 0.50 | 20 | 0 | 104 | 60-140 | 0 | |
| Methylene chloride | 11.45 | 0.50 | 10 | 0 | 114 | 60-140 | 0 | |
| MTBE | 10.08 | 0.50 | 10 | 0 | 101 | 60.8-151 | 0 | |
| Naphthalene | 7.74 | 0.20 | 10 | 0 | 77.4 | 53.1-152 | 0 | |
| o-Xylene | 10.32 | 0.50 | 10 | 0 | 103 | 60-140 | 0 | |
| Propene | 10.06 | 0.50 | 10 | 0 | 101 | 34.4-139 | 0 | |
| Styrene | 10.35 | 0.50 | 10 | 0 | 104 | 60-140 | 0 | |
| Tetrachloroethene | 9.82 | 0.50 | 10 | 0 | 98.2 | 60-140 | 0 | |
| Tetrahydrofuran | 9.78 | 0.50 | 10 | 0 | 97.8 | 60-140 | 0 | |
| Toluene | 10.18 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | |
| trans-1,2-Dichloroethene | 10.21 | 0.50 | 10 | 0 | 102 | 60-140 | 0 | |
| trans-1,3-Dichloropropene | 10.35 | 0.50 | 10 | 0 | 104 | 60-140 | 0 | |
| Trichloroethene | 10.16 | 0.20 | 10 | 0 | 102 | 60-140 | 0 | |
| Trichlorofluoromethane | 10.49 | 0.50 | 10 | 0 | 105 | 60-140 | 0 | |
| Vinyl acetate | 10.07 | 0.50 | 10 | 0 | 101 | 48.4-145 | 0 | |
| Vinyl chloride | 10.06 | 0.50 | 10 | 0 | 101 | 60-140 | 0 | |
| Surr: Bromofluorobenzene | 9.8 | 0 | 10 | 0 | 98 | 60-140 | 0 | |

The following samples were analyzed in this batch:

| | |
|-------------|-------------|
| 1702209-01A | 1702209-02A |
|-------------|-------------|

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Waste Management
Project: Stony Hollow Landfill
WorkOrder: 1702209

**QUALIFIERS,
ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u> |
|------------------|---------------------------------------------------------------------------|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |

| <u>Acronym</u> | <u>Description</u> |
|----------------|-------------------------------------|
| DUP | Method Duplicate |
| E | EPA Method |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitation Limit |
| SDL | Sample Detection Limit |
| SW | SW-846 Method |

| <u>Units Reported</u> | <u>Description</u> |
|-----------------------|--------------------|
| µg/m ³ | |
| ppbv | |

Sample Receipt Checklist

Client Name: **STONYHOLLOWLANDFILL-DAY**

Date/Time Received: **07-Feb-17 10:07**

Work Order: **1702209**

Received by: **MCF**

Checklist completed by: J an Wilcox 07-Feb-17
eSignature Date

Reviewed by: Rob Nieman 08-Feb-17
eSignature Date

Matrices:

Carrier name: ALSHN

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



ANALYTICAL SERVICES REQUEST
AND CHAIN OF CUSTODY

Send to LJB: Invoice Results

Send to: Invoice Results

Contact: Jennifer Miller

Contact: Peter Lucas

Address/Email:
jmiller@ljbinc.com
2500 Newmark Drive
Miamisburg, OH 45342

Address/Email:
plucas2@wm.com

1702209

Phone: 937-259-5048 or 937-689-3638

Phone:

Fax:

Fax:

LJB job #: P.O. #: Per Peter Lucas/WM

Sample site: Stony Hollow Landfill

Sampled by: Jennifer Miller

Signature: *[Handwritten Signature]*

Rush Phone results
 Standard turnaround Fax results
 Need by: 1-day turnaround Email results

Special instructions:

Analysis Requested

Remarks:

TO-15

01
02

| Sample ID | Date | Time | Matrix | Comp | Grab | # Btls |
|------------------|------------|------|--------|------|------|--------|
| AA-17 L:fill N | 02/06/2017 | 0933 | Air | | X | 1 |
| AA-18 Landfill S | 02/07/2017 | 0900 | Air | | X | 1 |
| | ↓ | 0949 | | | | |

ALS LAB USE ONLY

COOLER TEMP: °C pH ADJUSTMENTS:
 COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK
 DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS
 STD MAIL PRY MAIL ALS COURIER OTHER:
 CUSTODY SEALS: NONE COOLER PACKAGE SAMPLES
 EQUIP. RETURNED:

Relinquished by: *[Handwritten Signature]*

Date/time: 2/7/17 10:07 AM

Received by: *[Handwritten Signature]* 2-7-17 10:57a

Date/time:

Relinquished by:

Date/time:

Received by: *Christie Teek* 2-7-17 1007

Date/time:

Relinquished by: *[Handwritten Signature]*

Date/time:

Received at lab by:

Date/time: