



20-Feb-2018

Alex Zelles
Waste Management
2460 S. Gettysburg Rd
Dayton, OH 45417

Tel: (937) 356-6204
Fax:

Re: Stony Hollow Landfill

Work Order: **1801766**

Dear Alex,

ALS Environmental received 2 samples on 29-Jan-2018 11:30 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 7.

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

Sincerely,

R o b N i e m a n

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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Client: Waste Management
Project: Stony Hollow Landfill
Work Order: 1801766

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>
1801766-01	SHAA-N-52	Air		1/27/2018	1/29/2018 11:30	<input type="checkbox"/>
1801766-02	SHAA-S-52	Air		1/27/2018	1/29/2018 11:30	<input type="checkbox"/>

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Case Narrative

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

Compound identification is based upon retention time matching only. Any compound with a similar retention time will interfere.

Samples were prepared and analyzed by the analytical method and the laboratory's applicable standard operating procedure listed below:

- IH-001- "Determination of Analytes Using NIOSH and OSHA Methods Using Gas Chromatography."
- IH-002- "Determination of Suspended Particulates in the Atmosphere Using Various Media"
- IH-003- "Determination of Suspended Particulates Not Otherwise Regulated (Total and Respirable)."
- IH-004- "Determination of Analytes by NIOSH and OSHA Methods Using Liquid Chromatography."
- IH-005- "Benzene-Soluble Fraction and Total Particulate (Asphalt Fume)."
- IH-006- "Methods IO-3.1 and IO-3.4 Modified for Metals Preparation and Analysis for Suspended Particulates."
- IH-196- "Carbon Black by OSHA 196."
- IH-6009- "Determination of Mercury in Industrial Hygiene Samples by Manual Cold Vapor Atomic Absorption Spectroscopy."
- ENV-6010B- "Determination of Trace Metals in Solution by Inductively Coupled Plasma-Atomic Emission Spectroscopy by EPA Method 6010B Non-VAP."
- IH-7300 modified- "Elements by ICP."

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Analytical Results

Lab ID: 1801766-01A
Client Sample ID: SHAA-N-52

Collection Date: 1/27/2018
Matrix: AIR

Analyses

ALDEHYDE(S) BY OSHA 1007 MOD.		Method: O1007	Time (Min): 1440	Analyst: AW
Date Analyzed: 2/1/2018 23:47		Reporting Limit		
	µg/sample	µg/sample	ppm	
Acetaldehyde	ND	0.20	<0.0033	
Benzaldehyde	ND	0.20	<0.0023	
Butyraldehyde	ND	0.20	<0.0029	
Crotonaldehyde	ND	0.20	<0.0050	
Formaldehyde	ND	0.20	<0.0040	
Hexanaldehyde	ND	0.20	<0.0035	
Propionaldehyde	ND	0.20	<0.0042	

Lab ID: 1801766-02A
Client Sample ID: SHAA-S-52

Collection Date: 1/27/2018
Matrix: AIR

Analyses

ALDEHYDE(S) BY OSHA 1007 MOD.		Method: O1007	Time (Min): 1440	Analyst: AW
Date Analyzed: 2/2/2018 00:59		Reporting Limit		
	µg/sample	µg/sample	ppm	
Acetaldehyde	ND	0.20	<0.0033	
Benzaldehyde	ND	0.20	<0.0023	
Butyraldehyde	ND	0.20	<0.0029	
Crotonaldehyde	ND	0.20	<0.0050	
Formaldehyde	ND	0.20	<0.0040	
Hexanaldehyde	ND	0.20	<0.0035	
Propionaldehyde	ND	0.20	<0.0042	

Note:

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QC BATCH REPORT

Batch ID: **48482** Instrument ID: **HPLC2** Method: **O1007**

MBLK		Sample ID: MBLK-48482-48482			Units: µg/sample		Analysis Date: 2/1/2018 10:00 PM			
Client ID:		Run ID: HPLC2_180201A			SeqNo: 1684465		Prep Date: 1/30/2018		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	ND	0.20								
Benzaldehyde	ND	0.20								
Butyraldehyde	ND	0.20								
Crotonaldehyde	ND	0.20								
Formaldehyde	ND	0.20								
Hexanaldehyde	ND	0.20								
Propionaldehyde	ND	0.20								

LCS		Sample ID: LCS-48482-48482			Units: µg/sample		Analysis Date: 2/1/2018 10:36 PM			
Client ID:		Run ID: HPLC2_180201A			SeqNo: 1684466		Prep Date: 1/30/2018		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	0.707	0.20	0.75	0	94.3	70-130	0			
Benzaldehyde	0.7284	0.20	0.75	0	97.1	70-130	0			
Butyraldehyde	0.7244	0.20	0.75	0	96.6	70-130	0			
Crotonaldehyde	0.7252	0.20	0.75	0	96.7	70-130	0			
Formaldehyde	0.7036	0.20	0.75	0	93.8	70-130	0			
Hexanaldehyde	0.7164	0.20	0.75	0	95.5	70-130	0			
Propionaldehyde	0.7237	0.20	0.75	0	96.5	70-130	0			

LCSD		Sample ID: LCSD-48482-48482			Units: µg/sample		Analysis Date: 2/1/2018 11:12 PM			
Client ID:		Run ID: HPLC2_180201A			SeqNo: 1684467		Prep Date: 1/30/2018		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	0.7496	0.20	0.75	0	99.9	70-130	0.707	5.84	20	
Benzaldehyde	0.7526	0.20	0.75	0	100	70-130	0.7284	3.26	20	
Butyraldehyde	0.7509	0.20	0.75	0	100	70-130	0.7244	3.59	20	
Crotonaldehyde	0.7511	0.20	0.75	0	100	70-130	0.7252	3.51	20	
Formaldehyde	0.7458	0.20	0.75	0	99.4	70-130	0.7036	5.81	20	
Hexanaldehyde	0.7499	0.20	0.75	0	100	70-130	0.7164	4.57	20	
Propionaldehyde	0.7441	0.20	0.75	0	99.2	70-130	0.7237	2.78	20	

The following samples were analyzed in this batch: 1801766-01A 1801766-02A

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

Client: Waste Management
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WorkOrder: 1801766

**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/sample	

Sample Receipt Checklist

Client Name: STONYHOLLOWLANDFILL-DAY

Date/Time Received: 29-Jan-18 11:30

Work Order: 1801766

Received by: JNW

Checklist completed by: J an W ilcox 30-Jan-18
eSignature Date

Reviewed by: R obN ieman 30-Jan-18
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: