



18-May-2016

Roger Bellas
Pennsylvania DEP Bureau of Air Quality
12th Floor RCSOB
400 Market Street
Harrisburg, PA 17105

Tel: (570) 826-2511
Fax:

Re: Mid Valley School- 4/28/2016

Work Order: **16041065**

Dear Roger,

ALS Environmental received 6 samples on 29-Apr-2016 12:04 PM 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 11.

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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Environmental 

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Client: Pennsylvania DEP Bureau of Air Quality
Project: Mid Valley School- 4/28/2016
Work Order: 16041065

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>
16041065-01	MVH042816-1 / Red	Air		4/28/2016	4/29/2016 12:04	<input type="checkbox"/>
16041065-02	MVH042816-2 / Blue	Air		4/28/2016	4/29/2016 12:04	<input type="checkbox"/>
16041065-03	MVH042816-3 / Green	Air		4/28/2016	4/29/2016 12:04	<input type="checkbox"/>
16041065-04	MVH042816-4 / Orange	Air		4/28/2016	4/29/2016 12:04	<input type="checkbox"/>
16041065-05	MVH042816-5 / Yellow	Air		4/28/2016	4/29/2016 12:04	<input type="checkbox"/>
16041065-06	MVH042816-Summa	Air		4/28/2016	4/29/2016 12:04	<input type="checkbox"/>

Client: Pennsylvania DEP Bureau of Air Quality
Project: Mid Valley School- 4/28/2016

Work Order: 16041065

Analytical Results

Lab ID: 16041065-01A
Client Sample ID: MVH042816-1 / Red

Collection Date: 4/28/2016
Matrix: AIR

Analyses

AMMONIA BY NIOSH 6015 MOD.		Method: N6015	Air Volume (L): 96.413	Analyst: ALST
Date Analyzed: 5/10/2016		Reporting Limit		
	µg/sample	µg/sample	ug/m3	ppb
Ammonia	ND	1.2	<12	<18

Lab ID: 16041065-02A
Client Sample ID: MVH042816-2 / Blue

Collection Date: 4/28/2016
Matrix: AIR

Analyses

ALDEHYDES BY HPLC		Method: ETO-11	Air Volume (L): 215.85	Analyst: JMB
Date Analyzed: 5/14/2016 01:55		Reporting Limit		
	µg/sample	µg/sample	ug/m3	ppb
Acetaldehyde	ND	0.20	<0.93	<0.51
Acrolein	ND	0.20	<0.93	<0.40
Formaldehyde	0.20	0.20	0.94	0.76

Lab ID: 16041065-03A
Client Sample ID: MVH042816-3 / Green

Collection Date: 4/28/2016
Matrix: AIR

Analyses

METHANOL BY NIOSH 2000 MOD.		Method: N2000	Air Volume (L): 7.195	Analyst: MHW
Date Analyzed: 5/4/2016		Reporting Limit		
	µg/sample	µg/sample	ug/m3	ppb
Methanol	ND	10	<1,400	<1,100

Lab ID: 16041065-04A
Client Sample ID: MVH042816-4 / Orange

Collection Date: 4/28/2016
Matrix: AIR

Analyses

METHYLAMINE BY OSHA 40		Method: O40	Air Volume (L): 21.585	Analyst: JMB
Date Analyzed: 5/5/2016 16:22		Reporting Limit		
	µg/sample	µg/sample	ug/m3	ppb
Methylamine	ND	2.5	<120	<91

Note:

Client: Pennsylvania DEP Bureau of Air Quality
Project: Mid Valley School- 4/28/2016

Work Order: 16041065

Analytical Results

Lab ID: 16041065-05A
Client Sample ID: MVH042816-5 / Yellow

Collection Date: 4/28/2016
Matrix: AIR

Analyses

AMINE(S) BY OSHA PV2060 MOD.		Method: O2060	Air Volume (L): 21.585	Analyst: MHW
Date Analyzed: 5/17/2016		Reporting Limit		
	µg/sample	µg/sample	ug/m3	ppb
Triethylamine	ND	10	<460	<110

Note:

Client: Pennsylvania DEP Bureau of Air Quality
Work Order: 16041065
Project: Mid Valley School- 4/28/2016

QC BATCH REPORT

Batch ID: **35695** Instrument ID: **GC1** Method: **N2000**

MBLK	Sample ID: MBLK-35695-35695			Units: µg/sample		Analysis Date: 5/4/2016				
Client ID:	Run ID: GC1_160504A			SeqNo: 1274934		Prep Date: 5/4/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol ND 10

LCS	Sample ID: LCS-35695-35695			Units: µg/sample		Analysis Date: 5/4/2016				
Client ID:	Run ID: GC1_160504A			SeqNo: 1274935		Prep Date: 5/4/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol 75.28 10 79.1 0 95.2 64.1-145 0

LCSD	Sample ID: LCSD-35695-35695			Units: µg/sample		Analysis Date: 5/4/2016				
Client ID:	Run ID: GC1_160504A			SeqNo: 1274949		Prep Date: 5/4/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol 72.99 10 79.1 0 92.3 64.1-145 75.28 3.09 20

The following samples were analyzed in this batch: 16041065-03A

Client: Pennsylvania DEP Bureau of Air Quality

QC BATCH REPORT

Work Order: 16041065

Project: Mid Valley School- 4/28/2016

Batch ID: 35899

Instrument ID: GC5

Method: O2060

MBLK	Sample ID: MBLK-35899-35899			Units: µg/sample			Analysis Date: 5/17/2016			
Client ID:	Run ID: GC5_160517A			SeqNo: 1282938			Prep Date: 5/16/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Triethylamine	ND	10								

LCS	Sample ID: LCS-35899-35899			Units: µg/sample			Analysis Date: 5/17/2016			
Client ID:	Run ID: GC5_160517A			SeqNo: 1282939			Prep Date: 5/16/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Triethylamine	78.05	10	90.75	0	86	70-130	0			

LCSD	Sample ID: LCSD-35899-35899			Units: µg/sample			Analysis Date: 5/17/2016			
Client ID:	Run ID: GC5_160517A			SeqNo: 1282950			Prep Date: 5/16/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Triethylamine	121.7	10	90.75	0	134	70-130	78.05	43.7	20	SR

The following samples were analyzed in this batch:

16041065-05A

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

Client: Pennsylvania DEP Bureau of Air Quality

QC BATCH REPORT

Work Order: 16041065

Project: Mid Valley School- 4/28/2016

Batch ID: 35832

Instrument ID: HPLC2

Method: ETO-11

MBLK	Sample ID: MBLK-35832-35832			Units: µg/sample			Analysis Date: 5/14/2016 01:55 AM			
Client ID:	Run ID: HPLC2_160514A			SeqNo: 1281947			Prep Date: 5/11/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	ND	0.20								
Formaldehyde	ND	0.20								

LCS	Sample ID: LCS-35832-35832			Units: µg/sample			Analysis Date: 5/14/2016 01:55 AM			
Client ID:	Run ID: HPLC2_160514A			SeqNo: 1281948			Prep Date: 5/11/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	1.452	0.20	2	0	72.6	61.5-120	0			
Formaldehyde	2.134	0.20	2	0	107	70-130	0			

LCSD	Sample ID: LCSD-35832-35832			Units: µg/sample			Analysis Date: 5/14/2016 01:55 AM			
Client ID:	Run ID: HPLC2_160514A			SeqNo: 1281961			Prep Date: 5/11/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	1.476	0.20	2	0	73.8	61.5-120	1.452	1.61	20	
Formaldehyde	2.255	0.20	2	0	113	70-130	2.134	5.55	20	

The following samples were analyzed in this batch:

16041065-02A

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

Client: Pennsylvania DEP Bureau of Air Quality
Work Order: 16041065
Project: Mid Valley School- 4/28/2016

QC BATCH REPORT

Batch ID: **R128659** Instrument ID: **HPLC1** Method: **O40**

MBLK		Sample ID: MB-R128659-R128659			Units: µg/sample			Analysis Date: 5/5/2016 04:22 PM		
Client ID:		Run ID: HPLC1_160505A			SeqNo: 1276413			Prep Date: DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methylamine ND 2.5

LCS		Sample ID: LCS-R128659-R128659			Units: µg/sample			Analysis Date: 5/5/2016 04:22 PM		
Client ID:		Run ID: HPLC1_160505A			SeqNo: 1276414			Prep Date: DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methylamine 7.458 2.5 9.175 0 81.3 9.88-161 0

LCSD		Sample ID: LCSD-R128659-R128659			Units: µg/sample			Analysis Date: 5/5/2016 04:22 PM		
Client ID:		Run ID: HPLC1_160505A			SeqNo: 1276429			Prep Date: DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methylamine 6.924 2.5 9.175 0 75.5 9.88-161 7.458 7.43 20

The following samples were analyzed in this batch:

16041065-04A

Client: Pennsylvania DEP Bureau of Air Quality

QC BATCH REPORT

Work Order: 16041065

Project: Mid Valley School- 4/28/2016

Batch ID: **R128758**

Instrument ID: **SUB**

Method: **N6015**

MBLK		Sample ID: MB-R128758-R128758			Units: µg/sample		Analysis Date: 5/10/2016			
Client ID:		Run ID: SUB_160511A			SeqNo: 1277942		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ammonia	ND	1.2								

LCS		Sample ID: LCS-R128758-R128758			Units: µg/sample		Analysis Date: 5/10/2016			
Client ID:		Run ID: SUB_160511A			SeqNo: 1277943		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ammonia	23	1.2	24.3	0	94.7	74.3-115.2	0			

The following samples were analyzed in this batch:

16041065-01A

Client: Pennsylvania DEP Bureau of Air Quality
Project: Mid Valley School- 4/28/2016
WorkOrder: 16041065

**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	
ppbv	
ppm	

Sample Receipt Checklist

Client Name: PADEP-HARRISBURG

Date/Time Received: 29-Apr-16 12:04

Work Order: 16041065

Received by: RDN

Checklist completed by: Rob Nieman 30-Apr-16
eSignature Date

Reviewed by: Rob Nieman 03-May-16
eSignature Date

Matrices:

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [checked] No [] Not Present []
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

Temperature(s)/Thermometer(s): 13.3

Cooler(s)/Kit(s):

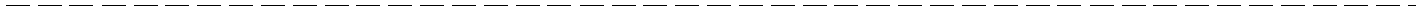
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted []

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: