



06-Apr-2016

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

Tel: (570) 826-2511
Fax:

Re: Sherwood Park (SHP)- 2/25/2016

Work Order: **16021098**

Dear Roger,

ALS Environmental received 6 samples on 26-Feb-2016 09:30 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 8.

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: Sherwood Park (SHP)- 2/25/2016
Work Order: 16021098

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>
16021098-01	SHP022516-1 / Red	Air		2/25/2016 11:28	2/26/2016 09:30	<input type="checkbox"/>
16021098-02	SHP022516-2 / Blue	Air		2/25/2016 11:28	2/26/2016 09:30	<input type="checkbox"/>
16021098-03	SHP022516-3 / Green	Air		2/25/2016 11:28	2/26/2016 09:30	<input type="checkbox"/>
16021098-04	SHP022516-4 / Orange	Air		2/25/2016 11:28	2/26/2016 09:30	<input type="checkbox"/>
16021098-05	SHP022516-5 / Yellow	Air		2/25/2016 11:28	2/26/2016 09:30	<input type="checkbox"/>
16021098-06	SHP022516-Summa	Air		2/25/2016 11:28	2/26/2016 09:30	<input type="checkbox"/>

Client: Pennsylvania DEP Bureau of Air Quality
Project: Sherwood Park (SHP)- 2/25/2016

Work Order: 16021098

Analytical Results

Lab ID: 16021098-02A
Client Sample ID: SHP022516-2 / Blue

Collection Date: 2/25/2016 11:28:00 AM
Matrix: AIR

Analyses

ALDEHYDES BY HPLC		Method: ETO-11	Air Volume (L): 216	Analyst: JMB
Date Analyzed: 3/4/2016 20:31		Reporting Limit		
	µg/sample	µg/sample	mg/m3	ppb
Acetaldehyde	0.22	0.20	0.0010	0.57
Acrolein	ND	16	<0.074	<32
Formaldehyde	0.24	0.20	0.0011	0.90

Lab ID: 16021098-04A
Client Sample ID: SHP022516-4 / Orange

Collection Date: 2/25/2016 11:28:00 AM
Matrix: AIR

Analyses

METHYLAMINE BY OSHA 40		Method: O40	Air Volume (L): 10.08	Analyst: MHW
Date Analyzed: 3/31/2016		Reporting Limit		
	µg/sample	µg/sample	mg/m3	ppb
Methylamine	ND	3.0	<0.30	<230

Lab ID: 16021098-05A
Client Sample ID: SHP022516-5 / Yellow

Collection Date: 2/25/2016 11:28:00 AM
Matrix: AIR

Analyses

AMINE(S) BY OSHA PV2060 MOD.		Method: O2060	Air Volume (L): 21.6	Analyst: MHW
Date Analyzed: 3/8/2016		Reporting Limit		
	µg/sample	µg/sample	mg/m3	ppb
Triethylamine	ND	10	<0.46	<110

Note:

Client: Pennsylvania DEP Bureau of Air Quality
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Project: Sherwood Park (SHP)- 2/25/2016

QC BATCH REPORT

Batch ID: **34330** Instrument ID: **GC5** Method: **O2060**

MBLK	Sample ID: MBLK-34330-34330			Units: µg/sample		Analysis Date: 3/8/2016				
Client ID:	Run ID: GC5_160308A			SeqNo: 1237506		Prep Date: 3/8/2016		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-34330-34330			Units: µg/sample		Analysis Date: 3/8/2016				
Client ID:	Run ID: GC5_160308A			SeqNo: 1237507		Prep Date: 3/8/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Triethylamine 95.6 10 90.75 0 105 70-130 0

LCSD	Sample ID: LCSD-34330-34330			Units: µg/sample		Analysis Date: 3/8/2016				
Client ID:	Run ID: GC5_160308A			SeqNo: 1237527		Prep Date: 3/8/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Triethylamine 100.3 10 90.75 0 111 70-130 95.6 4.79 20

The following samples were analyzed in this batch: 16021098-05A

Client: Pennsylvania DEP Bureau of Air Quality
Work Order: 16021098
Project: Sherwood Park (SHP)- 2/25/2016

QC BATCH REPORT

Batch ID: **34174** Instrument ID: **HPLC1** Method: **ETO-11**

MBLK		Sample ID: MBLK-34174-34174			Units: µg/sample		Analysis Date: 3/4/2016 08:31 PM			
Client ID:		Run ID: HPLC1_160304A			SeqNo: 1235829		Prep Date: 3/4/2016		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-34174-34174			Units: µg/sample		Analysis Date: 3/4/2016 08:31 PM			
Client ID:		Run ID: HPLC1_160304A			SeqNo: 1235849		Prep Date: 3/4/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	1.608	0.20	2	0	80.4	70-130	0			
Formaldehyde	2.036	0.20	2	0	102	70-130	0			

LCSD		Sample ID: LCSD-34174-34174			Units: µg/sample		Analysis Date: 3/4/2016 08:31 PM			
Client ID:		Run ID: HPLC1_160304A			SeqNo: 1235840		Prep Date: 3/4/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	1.632	0.20	2	0	81.6	70-130	1.608	1.48	20	
Formaldehyde	2.065	0.20	2	0	103	70-130	2.036	1.41	20	

The following samples were analyzed in this batch:

16021098-02A

Client: Pennsylvania DEP Bureau of Air Quality
 Work Order: 16021098
 Project: Sherwood Park (SHP)- 2/25/2016

QC BATCH REPORT

Batch ID: R127512 Instrument ID: HPLC1 Method: O40

MBLK		Sample ID: MB-R127512-R127512			Units: µg/sample			Analysis Date: 3/31/2016		
Client ID:		Run ID: HPLC1_160331A			SeqNo: 1252816			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methylamine	ND	3.0								

LCS		Sample ID: LCS-R127512-R127512			Units: µg/sample			Analysis Date: 3/31/2016		
Client ID:		Run ID: HPLC1_160331A			SeqNo: 1252817			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methylamine	8.315	3.0	7.44	0	112	70-130	0			

LCSD		Sample ID: LCSD-R127512-R127512			Units: µg/sample			Analysis Date: 3/31/2016		
Client ID:		Run ID: HPLC1_160331A			SeqNo: 1252838			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methylamine	4.542	3.0	7.44	0	61	70-130	8.315	58.7	20	SR

The following samples were analyzed in this batch:

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WorkOrder: 16021098

**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: 26-Feb-16 09:30

Work Order: 16021098

Received by: SNH

Checklist completed by: Stephanie Harrington 29-Feb-16
eSignature Date

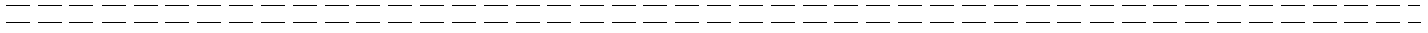
Reviewed by: Rob Nieman 02-Mar-16
eSignature Date

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): 4.9
Cooler(s)/Kit(s):
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [] No [] N/A [checked]
pH adjusted? Yes [] No [] N/A [checked]
pH adjusted by: -

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments: []

CorrectiveAction: []