

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: Mid Valley High School (MVH)- 3/02/16 Work Order: 1603280

Dear Roger,

ALS Environmental received 5 samples on 08-Mar-2016 10:15 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 11.

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

Sincerely,

## R ob 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 ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Client: Pennsylvania DEP Bureau of Air Quality

**Project:** Mid Valley High School (MVH)- 3/02/16

1603280

Work Order:

**Work Order Sample Summary** 

Lab Samp ID	Client Sample ID	<b>Matrix</b>	Tag Number	<b>Collection Date</b>	Date Received	Hold
1603280-01	Blank-1 / Red	Air		3/2/2016	3/8/2016 10:15	
1603280-02	Blank-2 / Blue	Air		3/2/2016	3/8/2016 10:15	
1603280-03	Blank-3 / Green	Air		3/2/2016	3/8/2016 10:15	
1603280-04	Blank-4 / Orange	Air		3/2/2016	3/8/2016 10:15	
1603280-05	Blank-5 / Yellow	Air		3/2/2016	3/8/2016 10:15	

Client: Pennsylvania DEP Bureau of Air Quality Work Order: 1603280

**Project:** Mid Valley High School (MVH)- 3/02/16

**Analytical Results** 

**Lab ID:** 1603280-01A **Collection Date:** 3/2/2016

Client Sample ID: Blank-1 / Red Matrix: AIR

**Analyses** 

AMMONIA BY NIOSH 6015 MOD.

Date Analyzed: 3/17/2016

Method: N6015

Reporting Limit

µg/sample

µg/sample

ND

1.2

Method: N6015

Air Volume (L): 0

Analyst: ALST

Reporting Limit

µg/m3

NA

**Lab ID:** 1603280-02A **Collection Date:** 3/2/2016

Client Sample ID: Blank-2 / Blue Matrix: AIR

**Analyses** 

ALDEHYDES BY HPLC		Method: ETO-11	Air Volume (L): 0	Analyst: <b>JMB</b>
Date Analyzed: 3/9/2016 11:10		Reporting Limit		
	μg/sample	μg/sample	ug/m3	
Acetaldehyde	0.63	0.20	NA	
Acrolein	ND	10	NA	
Formaldehyde	ND	0.20	NA	

Lab ID:1603280-03ACollection Date: 3/2/2016Client Sample ID:Blank-3 / GreenMatrix: AIR

**Analyses** 

METHANOL BY NIOSH 2000 MOD.		Method: <b>N2000</b>	Air Volume (L): 0	Analyst: TSA
Date Analyzed: 3/9/2016		Reporting Limit		
	μg/sample	μg/sample	ug/m3	
Methanol	ND	10	NA	

Lab ID:1603280-04ACollection Date:3/2/2016Client Sample ID:Blank-4 / OrangeMatrix:AIR

**Analyses** 

METHYLAMINE BY OSHA 40		Method: O40	Air Volume (L): 0	Analyst: MHW
Date Analyzed: 3/31/2016		Reporting Limit		
	μg/sample	μg/sample	ug/m3	
Methylamine	ND	3.0	NA	

Note:

**Client:** Pennsylvania DEP Bureau of Air Quality **Work Order:** 1603280

**Project:** Mid Valley High School (MVH)- 3/02/16

**Analytical Results** 

Lab ID: **Collection Date:** 3/2/2016 1603280-05A Client Sample ID: Blank-5 / Yellow

Matrix: AIR

**Analyses** 

AMINE(S) BY OSHA PV2060 MOD.		Method: <b>O2060</b>	Air Volume (L): 0	Analyst: MHW
Date Analyzed: 3/8/2016		Reporting Limit		
	µg/sample	μg/sample	ug/m3	
Triethylamine	ND	10	NA	

Note:

Client: Pennsylvania DEP Bureau of Air Quality

**Work Order:** 1603280

**Project:** Mid Valley High School (MVH)- 3/02/16

QC BATCH REPORT

Batch ID: 343	Instrument ID: Go	C5		Metho	d: <b>O2060</b>							
MBLK	Sample ID: MBLK-34330-3433	0				Uni	its: <b>µg/sa</b> r	nple	Analysi	s Date: 3/8/	2016	
Client ID:		Run ID:	GC5_1	60308A	S	SeqN	lo: <b>12375</b> 0	)6	Prep Date: 3/8	3/2016	DF: <b>1</b>	
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					Uni	its: <b>µg/sar</b>	nple	Analysi	s Date: 3/8/	2016	
Client ID:		Run ID:	GC5_1	60308A	S	SeqN	lo: <b>12375</b> 0	)7	Prep Date: 3/8	DF: <b>1</b>		
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	(	)		
LCSD	Sample ID: LCSD-34330-3433	0				Uni	its: µg/sar	nple	Analysi	s Date: 3/8/	2016	
Client ID:		Run ID:	GC5_1	60308A	S		lo: <b>12375</b> 2		Prep Date: 3/8	/2016	DF: <b>1</b>	
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	95.0	6 4.79	20	
The following	g samples were analyzed in this	s batch:	16	603280-05A								

Client: Pennsylvania DEP Bureau of Air Quality

**Work Order:** 1603280

**Project:** Mid Valley High School (MVH)- 3/02/16

Batch ID: 34	Instrument ID: G	C1		Metho	d: <b>N2000</b>						
MBLK	Sample ID: MBLK-34460-344	60			U	Inits: µg/sa	mple	Analysis	Date: 3/9/	/2016	
Client ID:		Run	ID: GC1_10	60309B	Sec	No: <b>12413</b>	83	Prep Date: 3/9/		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Methanol		ND	10								
LCS	Sample ID: LCS-34460-34460	)			U	Inits: µg/sa	mple	Analysis	Date: 3/9/	/2016	
Client ID:		Run	ID: GC1_1	60309B		No: <b>12413</b>	-	Prep Date: 3/9/		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Methanol		73.2	10	79.1	0	92.5	64.1-145	0			
LCSD	Sample ID: LCSD-34460-3446	60			U	Inits: µg/sa	mple	Analysis	Date: 3/9/	/2016	
Client ID:		Run	ID: GC1_1	60309B		No: <b>12413</b>		Prep Date: 3/9/	2016	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Methanol		68.2	10	79.1	0	86.2	64.1-145	73.2	7.07	20	

QC BATCH REPORT

## QC BATCH REPORT

Client: Pennsylvania DEP Bureau of Air Quality

**Work Order:** 1603280

**Project:** Mid Valley High School (MVH)- 3/02/16

Batch ID: <b>34334</b>	Instrument ID: I	HFLOI									
MBLK Sample	ID: <b>MBLK-34334-34</b>		ID: HPLC1	_160309B		nits: <b>µg/sa</b> No: <b>12409</b>		Analysis Prep Date: 3/9/2	Date: <b>3/9/</b> 2	2016 08:19 DF: 1	5 PM
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Acetaldehyde		0.24	0.20			701122			70		
Formaldehyde		ND	0.20								
MBLK Sample	ID: MBLK-34334-34	334			Ur	nits: µg/sa	mple	Analysis	Date: <b>3/9/</b> 2	2016 11:10	0 AM
Client ID:		Run	ID: HPLC1	_160309C	Seq	No: <b>12446</b>	23	Prep Date: 3/9/2	2016	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Acetaldehyde		0.228	0.20								
Formaldehyde		ND_	0.20								
LCS Sample Client ID:	ID: <b>LCS-34334-3433</b>		ID: HPLC1	_160309B		nits: <b>µg/sa</b> ı No: <b>12409</b>		Analysis Prep Date: 3/9/2	Date: <b>3/9/</b> 2 2016	2016 08:1: DF: 1	5 PM
					SPK Ref		Control	RPD Ref		RPD	•
Analyte		Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qua
		Result	PQL 0.20	SPK Val	Value 0	%REC 89.4	70-130	Value 0	%RPD	LIMIL	Qua
Analyte Acetaldehyde Formaldehyde									%RPD	LITTIL	Qua
Acetaldehyde Formaldehyde	ID: <b>LCS-34334-3433</b>	1.787 2.033	0.20	2 2	0 0 Ur	89.4	70-130 70-130 <b>mple</b>	0	Date: <b>3/9/</b> 2		
Acetaldehyde Formaldehyde LCS Sample	ID: <b>LCS-34334-3433</b>	1.787 2.033	0.20 0.20	2 2	0 0 Ur	89.4 102 nits: <b>µg/sa</b>	70-130 70-130 <b>mple</b>	0 0 Analysis	Date: <b>3/9/</b> 2	2016 11:10	0 AM
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte	ID: <b>LCS-34334-3433</b>	1.787 2.033 <b>4</b> Run	0.20 0.20	2 2 2	0 0 Ur Seq	89.4 102 nits: µg/san No: <b>12446</b>	70-130 70-130 mple 24	0 0 Analysis Prep Date: 3/9/2 RPD Ref	Date: 3/9/2	2016 11:10 DF: 1 RPD	0 AM
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte  Acetaldehyde	ID: <b>LCS-34334-3433</b>	1.787 2.033 4 Run Result	0.20 0.20	2 2 2 _160309C	0 0 Ur Seq SPK Ref Value	89.4 102 nits: µg/sai No: 12446 %REC	70-130 70-130 mple 24 Control Limit	0 0 Analysis Prep Date: <b>3/9/</b> RPD Ref Value	Date: 3/9/2	2016 11:10 DF: 1 RPD	0 AM
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte Acetaldehyde Formaldehyde	ID: <b>LCS-34334-3433</b> ID: <b>LCSD-34334-343</b>	1.787 2.033 4 Run Result 1.787 2.033	0.20 0.20 ID: <b>HPLC1</b> PQL 0.20	2 2 2 _160309C SPK Val 2 2	0 0 Ur Seq SPK Ref Value	89.4 102 nits: µg/san No: <b>12446</b> %REC 89.4	70-130 70-130 mple 24 Control Limit 70-130 70-130	O O Analysis Prep Date: 3/9/2 RPD Ref Value O O	Date: 3/9/2 2016 %RPD Date: 3/9/2	2016 11:10 DF: 1 RPD Limit	<b>0 AM</b> Qua
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte Acetaldehyde Formaldehyde  LCSD Sample		1.787 2.033 4 Run Result 1.787 2.033	0.20 0.20 ID: <b>HPLC1</b> PQL 0.20 0.20	2 2 2 _160309C SPK Val 2 2	0 0 Ur Seq SPK Ref Value	89.4 102 hits: µg/sal No: 12446 %REC 89.4 102	70-130 70-130 mple 24 Control Limit 70-130 70-130	O O Analysis Prep Date: 3/9/2 RPD Ref Value O O Analysis	Date: 3/9/2 2016 %RPD Date: 3/9/2	2016 11:10 DF: 1 RPD Limit	Qua
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte  Acetaldehyde Formaldehyde  LCSD Sample Client ID:		1.787 2.033 4 Result 1.787 2.033 Run	0.20 0.20 ID: HPLC1 0.20 0.20	2 2 2 160309C SPK Val 2 2	0 0 Ur Seq SPK Ref Value 0 0 Ur Seq SPK Ref	89.4 102 nits: µg/sai No: 12446 %REC 89.4 102 nits: µg/sai	70-130 70-130 mple 24 Control Limit 70-130 70-130 mple 24 Control	Analysis Prep Date: 3/9/2 RPD Ref Value  0 0 Analysis Prep Date: 3/9/2 RPD Ref	Date: 3/9/2 2016 %RPD Date: 3/9/2	2016 11:10 DF: 1 RPD Limit 2016 08:19 DF: 1	O AM Qua
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte Acetaldehyde Formaldehyde  LCSD Sample Client ID:		1.787 2.033 4 Run Result 1.787 2.033 Run Result	0.20 0.20 ID: HPLC1 0.20 0.20	2 2 2 160309C SPK Val 2 2 160309B SPK Val	O O Ur Seq SPK Ref Value  O O Ur Seq SPK Ref Value	89.4 102 hits: µg/san No: 12446 %REC 89.4 102 hits: µg/san No: 12409	70-130 70-130 mple 24 Control Limit 70-130 70-130 mple 24 Control Limit	Analysis Prep Date: 3/9/2 RPD Ref Value  0 0 Analysis Prep Date: 3/9/2 RPD Ref Value	Date: 3/9/2 2016 %RPD Date: 3/9/2 2016 %RPD	2016 11:10 DF: 1 RPD Limit 2016 08:19 DF: 1 RPD Limit	O AM Qua
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte Acetaldehyde Formaldehyde  LCSD Sample Client ID:  Analyte Acetaldehyde  Formaldehyde  Acetaldehyde  Formaldehyde		1.787 2.033 4 Result 1.787 2.033 334 Run Result 1.779 2.088	0.20 0.20 ID: HPLC1 0.20 0.20 ID: HPLC1 PQL 0.20	2 2 2 160309C SPK Val 2 2 SPK Val 2	O O Ur Seq SPK Ref Value  O O Ur Seq SPK Ref Value  O O O	89.4 102 nits: µg/sar No: 12446 %REC 89.4 102 nits: µg/sar No: 12409 %REC 89 104	70-130 70-130 mple 24 Control Limit 70-130 70-130 mple 24 Control Limit 70-130 70-130	Analysis Prep Date: 3/9/2 RPD Ref Value  0 0 Analysis Prep Date: 3/9/2 RPD Ref Value  1.787 2.033	Date: 3/9/2 2016 %RPD  Date: 3/9/2 2016  %RPD  0.449 2.67	2016 11:10 DF: 1 RPD Limit 2016 08:19 DF: 1 RPD Limit 20 20	Qua
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte Acetaldehyde Formaldehyde  LCSD Sample Client ID:  Analyte Acetaldehyde Formaldehyde  Acetaldehyde Formaldehyde	ID: <b>LCSD-34334-34</b> 3	1.787 2.033  4  Result 1.787 2.033  334  Run  Result 1.779 2.088  334	0.20 0.20 ID: HPLC1 0.20 0.20 ID: HPLC1 PQL 0.20	2 2 2 160309C SPK Val 2 2 SPK Val 2 2	O O O O O O O O O O O O O O O O O O O	89.4 102 hits: µg/sal No: 12446 %REC 89.4 102 hits: µg/sal No: 12409	70-130 70-130 mple 24 Control Limit 70-130 70-130 mple 24 Control Limit 70-130 mple	Analysis Prep Date: 3/9/2 RPD Ref Value  O Analysis Prep Date: 3/9/2 RPD Ref Value  1.787 2.033  Analysis Prep Date: 3/9/2	Date: 3/9/2 2016  %RPD  Date: 3/9/2 2016  %RPD  0.449 2.67  Date: 3/9/2	2016 11:10 DF: 1 RPD Limit 2016 08:19 DF: 1 RPD Limit 20 20	Qua
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte Acetaldehyde Formaldehyde  LCSD Sample Client ID:  Analyte  Acetaldehyde Formaldehyde  LCSD Sample Client ID:  Analyte  Acetaldehyde Formaldehyde  Client ID:	ID: <b>LCSD-34334-34</b> 3	1.787 2.033  4  Result 1.787 2.033  334  Run  Result 1.779 2.088  334	0.20 0.20 ID: HPLC1 0.20 0.20 ID: HPLC1 PQL 0.20 0.20	2 2 2 160309C SPK Val 2 2 SPK Val 2 2	O O O O O O O O O O O O O O O O O O O	89.4 102 nits: µg/san No: 12446 %REC 89.4 102 nits: µg/san %REC 89 104	70-130 70-130 mple 24 Control Limit 70-130 70-130 mple 24 Control Limit 70-130 mple	Analysis Prep Date: 3/9/2 RPD Ref Value  Analysis Prep Date: 3/9/2 RPD Ref Value  1.787 2.033  Analysis	Date: 3/9/2 2016  %RPD  Date: 3/9/2 2016  %RPD  0.449 2.67  Date: 3/9/2	2016 11:10 DF: 1 RPD Limit  2016 08:19 DF: 1 RPD Limit 20 2016 11:10	Qua
Acetaldehyde Formaldehyde  LCS Sample Client ID:  Analyte  Acetaldehyde Formaldehyde  LCSD Sample Client ID:  Analyte  Acetaldehyde Formaldehyde  Formaldehyde  Sample  Acetaldehyde Formaldehyde  Formaldehyde  Sample	ID: <b>LCSD-34334-34</b> 3	1.787 2.033  4  Result 1.787 2.033  334  Result 1.779 2.088  334  Run	0.20 0.20 1D: HPLC1 0.20 0.20 1D: HPLC1 0.20 0.20	2 2 2 160309C SPK Val 2 2 SPK Val 2 2	O O O Ur Seq SPK Ref Value  O O Ur Seq SPK Ref Value  O O O Ur Seq SPK Ref	89.4 102 nits: µg/sai No: 12446 %REC 89.4 102 nits: µg/sai No: 12409	70-130 70-130 mple 24 Control Limit 70-130 70-130 mple 24 Control Limit 70-130 70-130 mple 38 Control	Analysis Prep Date: 3/9/2 RPD Ref Value  Analysis Prep Date: 3/9/2 RPD Ref Value  1.787 2.033  Analysis Prep Date: 3/9/2 RPD Ref	Date: 3/9/2 2016 %RPD  Date: 3/9/2 2016  %RPD  0.449 2.67  Date: 3/9/2	2016 11:10 DF: 1 RPD Limit  2016 08:19 DF: 1 RPD Limit 20 20 2016 11:10 RPD RPD	Qua

Note:

Client: Pennsylvania DEP Bureau of Air Quality

**Work Order:** 1603280

**Project:** Mid Valley High School (MVH)- 3/02/16

Batch ID: R127512 Method: O40 Instrument ID: HPLC1 **MBLK** Sample ID: MB-R127512-R127512 Units: µg/sample Analysis Date: 3/31/2016 Client ID: SeqNo: 1252816 Prep Date: DF: 1 Run ID: HPLC1\_160331A SPK Ref RPD Ref **RPD** Control Value Limit Value Limit Analyte Result **PQL** SPK Val %REC %RPD Qual Methylamine ND 3.0 LCS Sample ID: LCS-R127512-R127512 Units: µg/sample Analysis Date: 3/31/2016 Client ID: SeqNo: 1252817 Prep Date: Run ID: HPLC1\_160331A DF: 1 Control RPD Ref SPK Ref **RPD** Value Limit Value Limit %REC %RPD Qual Analyte Result **PQL** SPK Val 0 Methylamine 8.315 3.0 7.44 112 70-130 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 RPD SPK Ref RPD Ref Control Value Limit Value Limit %RPD Analyte Result **PQL** SPK Val %REC Qual

4.542

Methylamine

7.44

61

70-130

8.315

58.7

20

SR

3.0

**QC BATCH REPORT** 

Client: Pennsylvania DEP Bureau of Air Quality

1603280 Work Order:

Analyte

Ammonia

Result

23.1

**PQL** 

1.2

**Project:** Mid Valley High School (MVH)- 3/02/16 Batch ID: R127145 Method: N6015 Instrument ID: SUB **MBLK** Sample ID: MB-R127145-R127145 Units: µg/sample Analysis Date: 3/17/2016 Client ID: SeqNo: 1246078 Prep Date: Run ID: SUB\_160317I DF: 1 SPK Ref RPD Ref **RPD** Control Value Limit Value Limit Analyte Result PQL SPK Val %REC %RPD Qual ND Ammonia 1.2 LCS Sample ID: LCS-R127145-R127145 Units: µg/sample Analysis Date: 3/17/2016 Client ID: SeqNo: 1246079 Prep Date: Run ID: SUB\_160317I DF: 1 SPK Ref Control **RPD** Ref **RPD** 

**LCSD** Sample ID: LCSD-R127145 Units: µg/sample Analysis Date: 3/17/2016 Client ID: Run ID: SUB\_160317I SeqNo: 1246087 Prep Date: DF: 1 RPD SPK Ref Control **RPD** Ref Value Limit Value Limit %RPD Analyte Result **PQL** SPK Val %REC Qual Ammonia 22.2 1.2 24.3 91.4 74.3-115.2 23.1 3.97 20

Value

Limit

95.1 74.3-115.2

%REC

Value

The following samples were analyzed in this batch:

1603280-01A

SPK Val

24.3

**QC BATCH REPORT** 

Limit

Qual

%RPD

0

Client: Pennsylvania DEP Bureau of Air Quality
Project: Mid Valley High School (MVH)- 3/02/16
WorkOrder: 1603280

QUALIFIERS,
ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	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
Acronym	Description
DUP	Method Duplicate
	<del></del>
DUP	Method Duplicate
DUP E	Method Duplicate EPA Method
DUP E LCS	Method Duplicate EPA Method Laboratory Control Sample
DUP E LCS LCSD	Method Duplicate EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate
DUP E LCS LCSD MBLK	Method Duplicate EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank
DUP E LCS LCSD MBLK MDL	Method Duplicate EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit
DUP E LCS LCSD MBLK MDL MQL	Method Duplicate EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit
DUP E LCS LCSD MBLK MDL MQL MS	Method Duplicate EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit Matrix Spike
DUP E LCS LCSD MBLK MDL MQL MS	Method Duplicate EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate
DUP E LCS LCSD MBLK MDL MQL MS MSD PDS	Method Duplicate EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate Post Digestion Spike
DUP E LCS LCSD MBLK MDL MQL MS MSD PDS PQL	Method Duplicate EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate Post Digestion Spike Practical Quantitaion Limit

 $\mu \text{g/sample}$ 

## ALS Environmental

## **Sample Receipt Checklist**

Client Name:	PADEP-HARRISBURG			Date/Time	Received: 08	8-Mar-16	<u> 10:15</u>		
Work Order:	1603280			Received b	y: <u>\$</u>	<u>SNH</u>			
Checklist compl	Stephanie H arring  eSignature	ton	08-Mar-16 Date	Reviewed by:	R ob Nieman	n			09-Mar-16 Date
Matrices: Carrier name:	<u>FedEx</u>								
Shipping contain	ner/cooler in good condition?		Yes 🗸	No 🗌	Not Present				
Custody seals in	ntact on shipping container/cooler?	>	Yes	No 🗆	Not Present	✓			
Custody seals in	ntact on sample bottles?		Yes 🗸	No 🗆	Not Present				
Chain of custod	ly present?		Yes 🗸	No 🗌					
Chain of custod	ly signed when relinquished and re	ceived?	Yes 🗸	No 🗌					
Chain of custod	ly agrees with sample labels?		Yes 🗸	No 🗌					
Samples in prop	per container/bottle?		Yes 🗸	No 🗆					
Sample contain	ers intact?		Yes 🗸	No 🗌					
Sufficient samp	le volume for indicated test?		Yes 🗸	No 🗆					
All samples rece	eived within holding time?		Yes 🗸	No 🗌					
Container/Temp	Blank temperature in compliance	?	Yes 🗸	No 🗌					
Temperature(s)	/Thermometer(s):		<u>7.5</u>						
Cooler(s)/Kit(s):	:								
Water - VOA via	als have zero headspace?		Yes	No □	No VOA vials su	bmitted	<b>✓</b>		
Water - pH acce	eptable upon receipt?		Yes	No 🗆	N/A				
pH adjusted? pH adjusted by:			Yes _	No 🗌	N/A 🗸				
Login Notes:									
					- — — — — —	- — — -			
	- — — — — — — — — —				- — — — —	- — — -			
Client Contacted	d:	Date Contacted	:	Person	Contacted:				
Contacted By:		Regarding:							
Comments:									
CorrectiveActio	n:						or.	)	ago 1 of 1