Resolution Consultants
A Joint Venture of AECOM & EnSafe
1500 Wells Fargo Building
440 Monticello Avenue
Norfolk, Virginia 23510

6 May 2016

VIA ELECTRONIC MAIL

Mr. Arne Olsen
Remedial Project Manager
Naval Facilities Engineering Command, Southeast
IPT Gulf Coast OPUE3
Building 135 — Naval Air Station Jacksonville
Jacksonville, Florida 32212

RE: Supplemental Environmental Investigation
Formaldehyde Sampling Results — Naval Station Guantanamo Bay, Cuba
Contract No. N62470-11-D-8013
Contract Task Order JMB5

Dear Mr. Olsen:

Resolution Consultants performed a Supplemental Environmental Investigation of the Office of Military Commissions Camp Justice, also known as Area of Operation Patriot, at United States Naval Station Guantanamo Bay (NS GTMO), Cuba. The work was conducted at the request of Naval Facilities Engineering Command, Southeast, under Comprehensive Long-term Environmental Action Navy Contract No. N62470-11-D-8013, Contract Task Order JMB5, Statement of Work Number SCSR1501 (Modification 2). This letter identifies sample dates and locations, presents analytical laboratory results, and discusses data validation and other activities associated with the collection of indoor air samples for formaldehyde analysis.

Resolution Consultants mobilized to NS GTMO on 15 April 2016 and conducted sampling activities through 23 April 2016.

Sample Locations

As shown on Figures 1 through 6 in Attachment A, sorbent cartridges were used to collect 31 indoor air samples and 2 field blanks to determine the presence of formaldehyde in the following buildings, Cuzcos, and modular structures/trailers.

- Cuzcos on 21 April 2016
- Various structures inside the Expeditionary Legal Complex used for meeting spaces or administrative purposes on 22 April 2016

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- [redacted] trailers used for administrative purposes outside Building AV-29 on 22 and 23 April 2016

- Multiple rooms used for administrative purposes in Hangar AV-32 on 22 and 23 April 2016

Sample Collection

Prior to deploying sorbent cartridges, the heating, ventilating, and air conditioning systems at each location were operating at occupation levels. Prior to sample collection, each air sampling pump was calibrated to a flow rate of 1.2 liters per minute using a rotameter to measure the upstream airflow as it entered the cartridge. Once the calibration was complete, a new cartridge was connected to the air sampling pump and the starting time was recorded. Samples were collected for approximately 8 hours (480 minutes), except for samples collected [redacted] outside of Building AV-29 and the Media Operations Room 1 in Hangar AV-32. Those two samples were collected for approximately 12 hours (720 minutes) following initial pump failure and to later facilitate coordination of sample collection.

At the end of each sampling period, pumps were turned off, stop times were recorded, and the cartridge caps were replaced. Each cartridge was labeled with a sample identification number and air sampling pumps were recalibrated to verify the flow rate. Field blanks were collected in the same manner as the samples, except that no air was drawn through the cartridges.

Analytical Results

Sample media cartridges were chilled during storage, and were packed in a cooler with frozen ice packs for shipment and submittal to Eurofins Air Toxics, Inc., after sample collection. Each cartridge was analyzed for formaldehyde using United States Environmental Protection Agency (U.S. EPA) Method TO-11A. Table 1 summarizes sample identification numbers, sample locations, start and stop times, and sample results. The Eurofins Air Toxics laboratory report is included as Attachment B.

Table 1
Formaldehyde Analytical Results
Naval Station Guantanamo Bay, Cuba

Sample ID	Location (Building/Room No.)	Sample Date	Result (µg/m³)
AV29IAFMFT	AV-29	4-22-2016	9.5
AV29IAFMST	AV-29	4-23-2016	14
AV32IAFMM01	AV-32/M01	4-23-2016	5.9
AV32IAFMM02	AV-32/M02	4-22-2016	11
AV32IAFMMP	AV-32/MP	4-22-2016	5.5
CZIAFM10B	CUZCOS/10B	4-21-2016	14
CZIAFM11B	CUZCOS/11B	4-21-2016	5.3
CZIAFM16A	CUZCOS/16A	4-21-2016	5.4
CZIAFM17A	CUZCOS/17A	4-21-2016	9.9
CZIAFM22A	CUZCOS/22A	4-21-2016	5
CZIAFM23A	CUZCOS/23A	4-21-2016	4.8
CZIAFM27B	CUZCOS/27B	4-21-2016	2.8
CZIAFM28B	CUZCOS/28B	4-21-2016	4.8
CZIAFM35A	CUZCOS/35A	4-21-2016	16
CZIAFM36A	CUZCOS/36A	4-21-2016	5.5
CZIAFM43A	CUZCOS/43A	4-21-2016	2.3
CZIAFM44A	CUZCOS/44A	4-21-2016	4.7
CZIAFM47A	CUZCOS/47A	4-21-2016	5.5
CZIAFM48A	CUZCOS/48A	4-21-2016	3.3
CZIAFM4A	CUZCOS/4A	4-21-2016	8.8
CZIAFM5A	CUZCOS/5A	4-21-2016	13
ELCIAFMBL1	ELC/BL-1	4-22-2016	4.3
ELCIAFMBL1-COM	ELC/BL-1 COM	4-22-2016	4.5
ELCIAFMBL11	ELC/BL-11	4-22-2016	6.1
ELCIAFMBL2	ELC/BL-2	4-22-2016	4.7
ELCIAFMBL29	ELC/BL-29	4-22-2016	11
ELCIAFMBL30	ELC/BL-30	4-22-2016	7.5
ELCIAFMBL3107	ELC/BL3-107	4-22-2016	5.6
ELCIAFMBL4	ELC-BL-4	4-22-2016	5.1
ELCIAFMBL5	ELC/BL-5	4-22-2016	6.1
ELCIAFMBL8	ELC/BL-8	4-22-2016	7.9
CZIAFMBLK	Cuzcos Field Blank	4-21-2016	0.053
AV32IAFMBLK	AV-32 Field Blank	4-22-2016	0.032

Note:
µg/m³ = micrograms per cubic meter

Data Verification and Validation

Data verification was performed to assess the completeness of laboratory data by reviewing chain-of-custody forms, laboratory sample logs, receipt condition reports, and laboratory deliverables. Data verification was performed on laboratory analytical data; 10 percent of the raw data (including instrument printouts) was manually validated. Laboratory data, provided in electronic format, was verified for accuracy prior to use and during the data validation process.

After receipt of the full data package and electronic deliverables, results were validated independently from the laboratory to assess data quality against criteria established in the analytical methods, U.S. EPA data validation guidelines (U.S. EPA August 2014), and *Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories Version 5.0* (DoD July 2013), where applicable. No results were qualified during data review; therefore, all results are considered usable by the project, according to U.S. EPA and DoD guidelines.

An electronic version of this report has been electronically mailed to the NAVFAC SE Contracting Officers Technical Representative.

Sincerely,

Resolution Consultants

By: Paul V. Stoddard, PG
Task Order Manager

Robert Thomas, CHMM
Environmental Scientist

Attachment A Figures
Attachment B Laboratory Analytical Report

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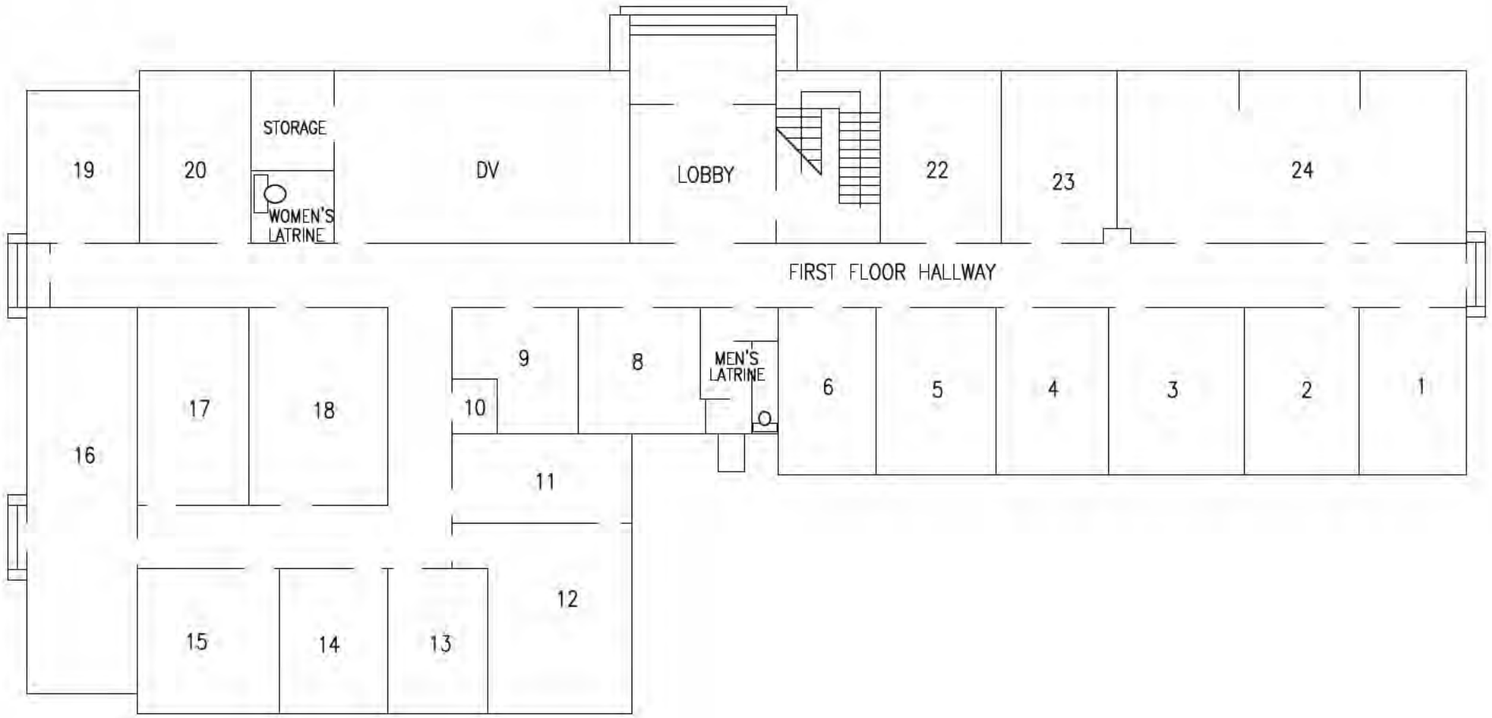
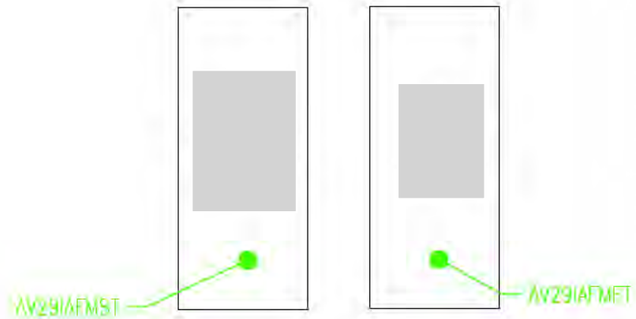
Attachment A
Figures





AV29 FIRST FLOOR

LEGEND

SAMPLE TYPES
— FORMALDEHYDE

NOT TO SCALE

FIGURE 1
AV29 (FIRST FLOOR) FLOOR PLAN
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command
RESOLUTION CONSULTANTS

REQUESTED BY: R.THOMAS	DATE: 05/06/16
DRAWN BY: BRONSON	DWG NAME: 17816_B009

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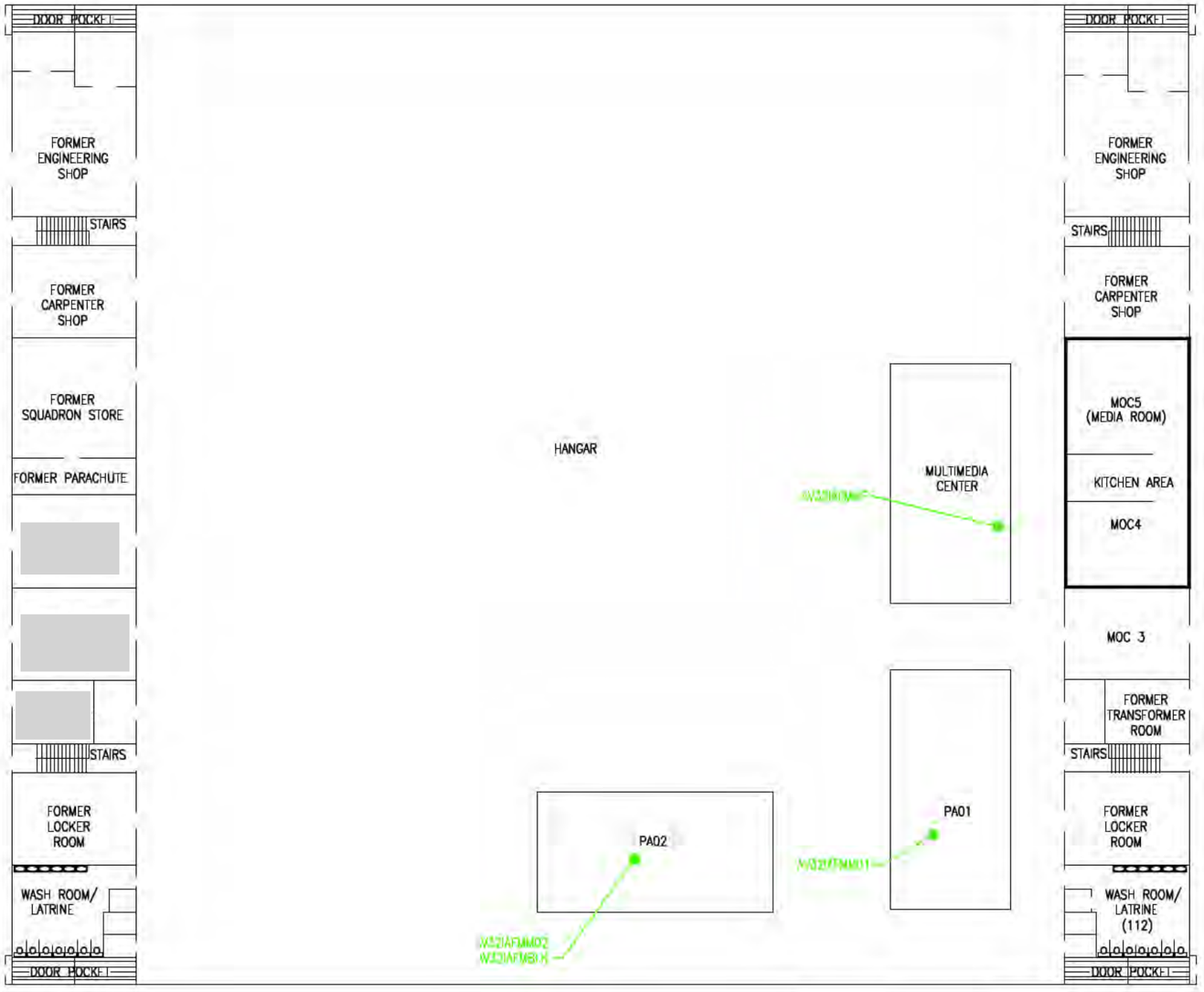

AV32 FIRST FLOOR

LEGEND

SAMPLE TYPES

● = FORMALDEHYDE

NOT TO SCALE

FIGURE 2
AV32 (FIRST FLOOR) FLOOR PLAN
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command

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REQUESTED BY: R.THOMAS	DATE: 05/06/16
DRAWN BY: BRONSON	DWG NAME: 17816_B010

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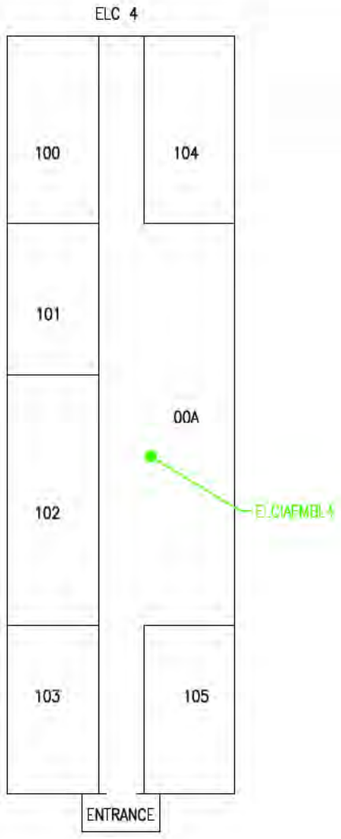
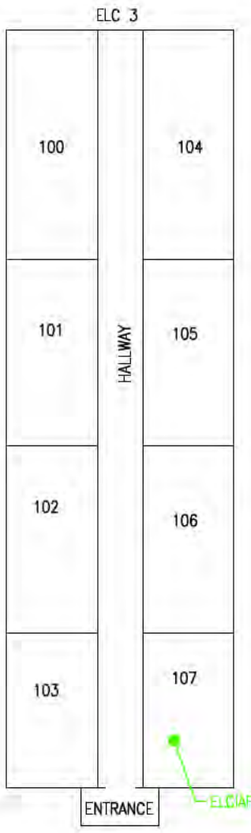
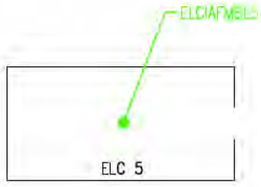
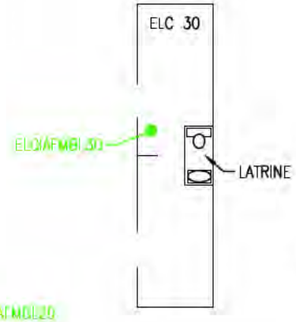




SAMPLE TYPES

● – FORMALDEHYDE





NOT TO SCALE

FIGURE 3
ELC 2, 3, 4, 5, 8, 29, AND 30 FLOOR PLAN
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command

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REQUESTED BY: R.THOMAS	DATE: 05/06/16
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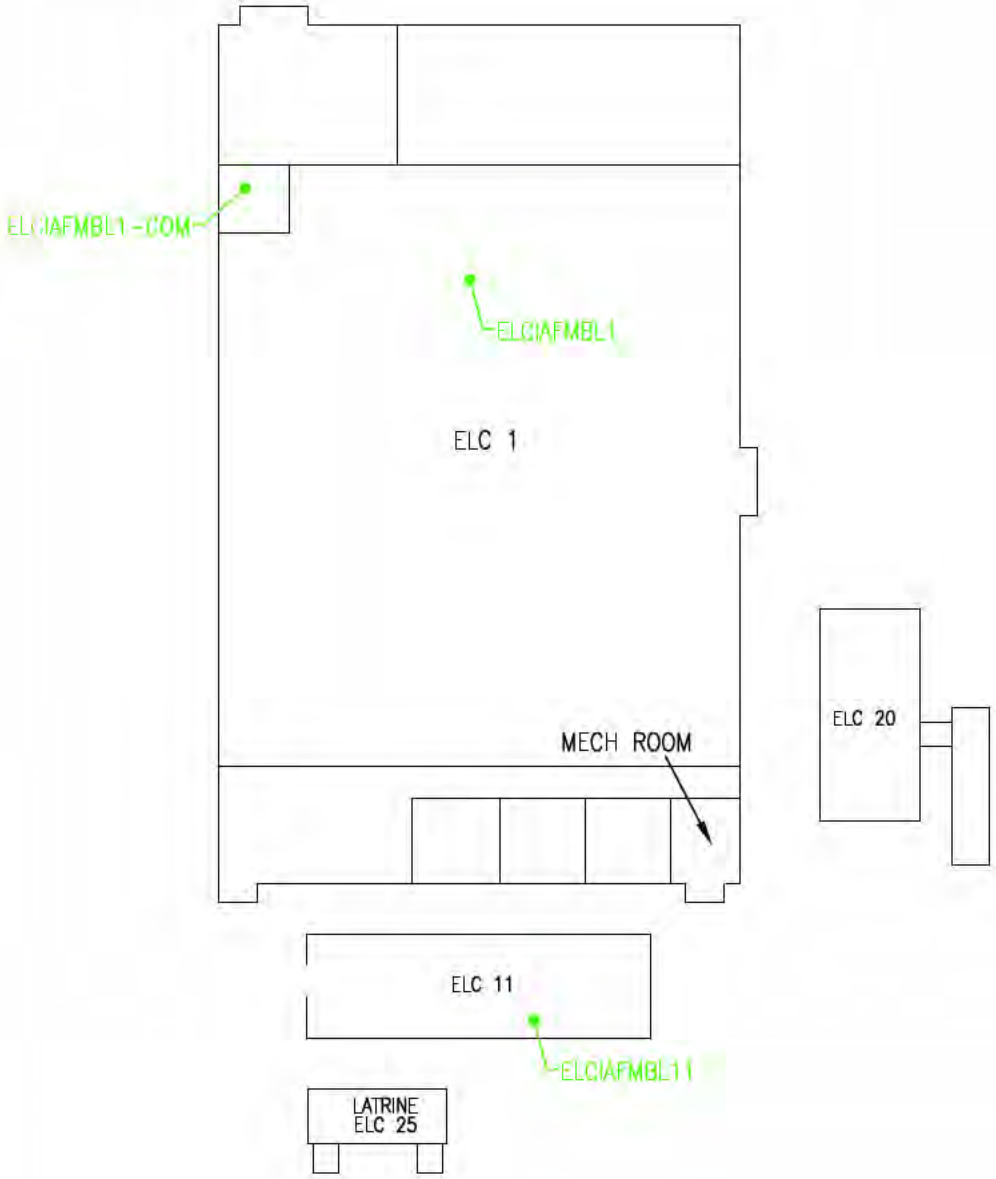

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LEGEND

SAMPLE TYPES

● – FORMALDEHYDE

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FIGURE 4
ELC 1, 11, AND 20 FLOOR PLAN
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command

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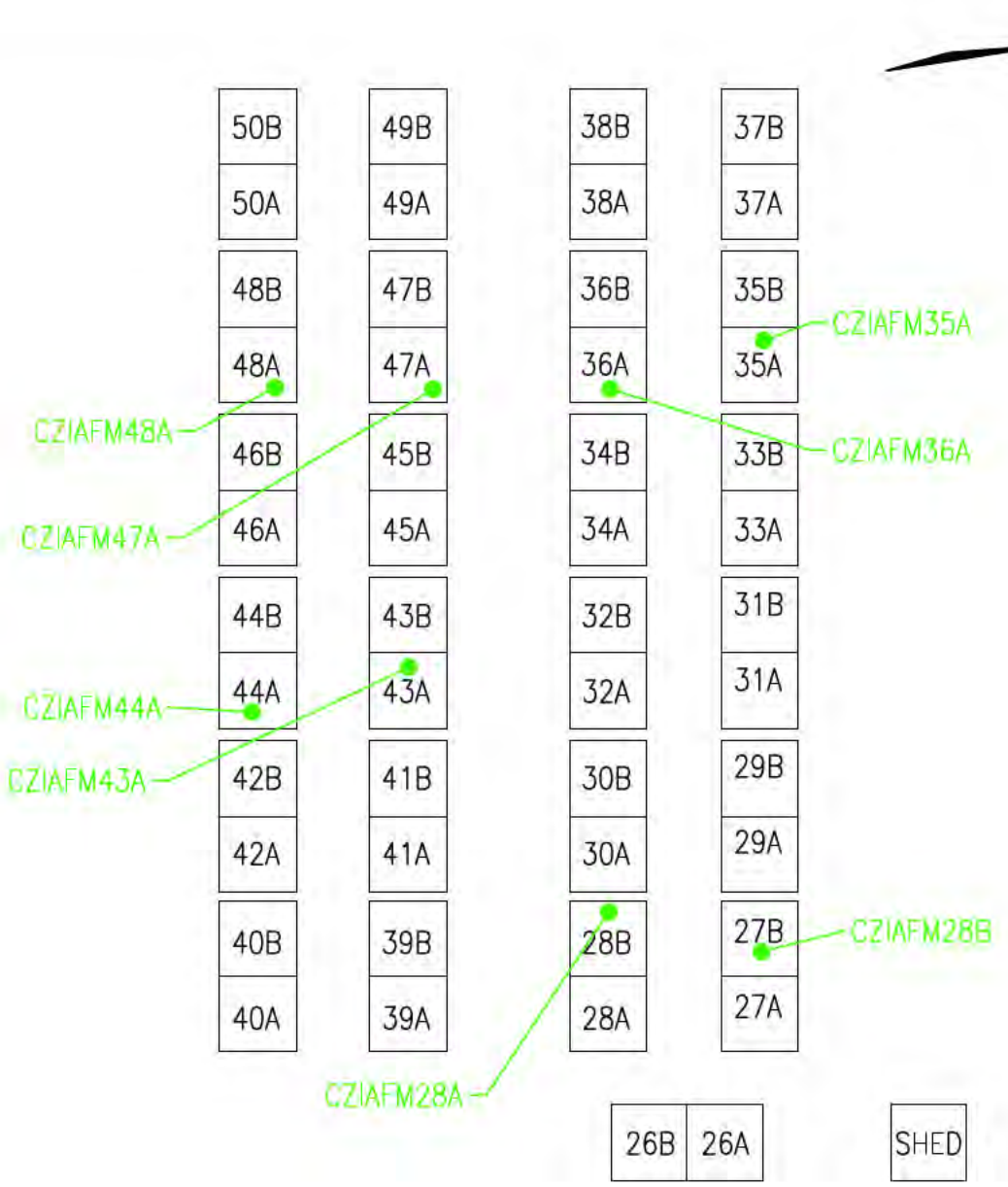
REQUESTED BY: R.THOMAS	DATE: 05/06/16
DRAWN BY: BRONSON	DWG NAME: 17816_B011



NEW CUZCOS

SAMPLE TYPES

● – FORMALDEHYDE

NOT TO SCALE

FIGURE 5
NEW CUZCOS
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command

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REQUESTED BY: R.THOMAS	DATE: 05/06/16
DRAWN BY: BRONSON	DWG NAME: 17816_B012

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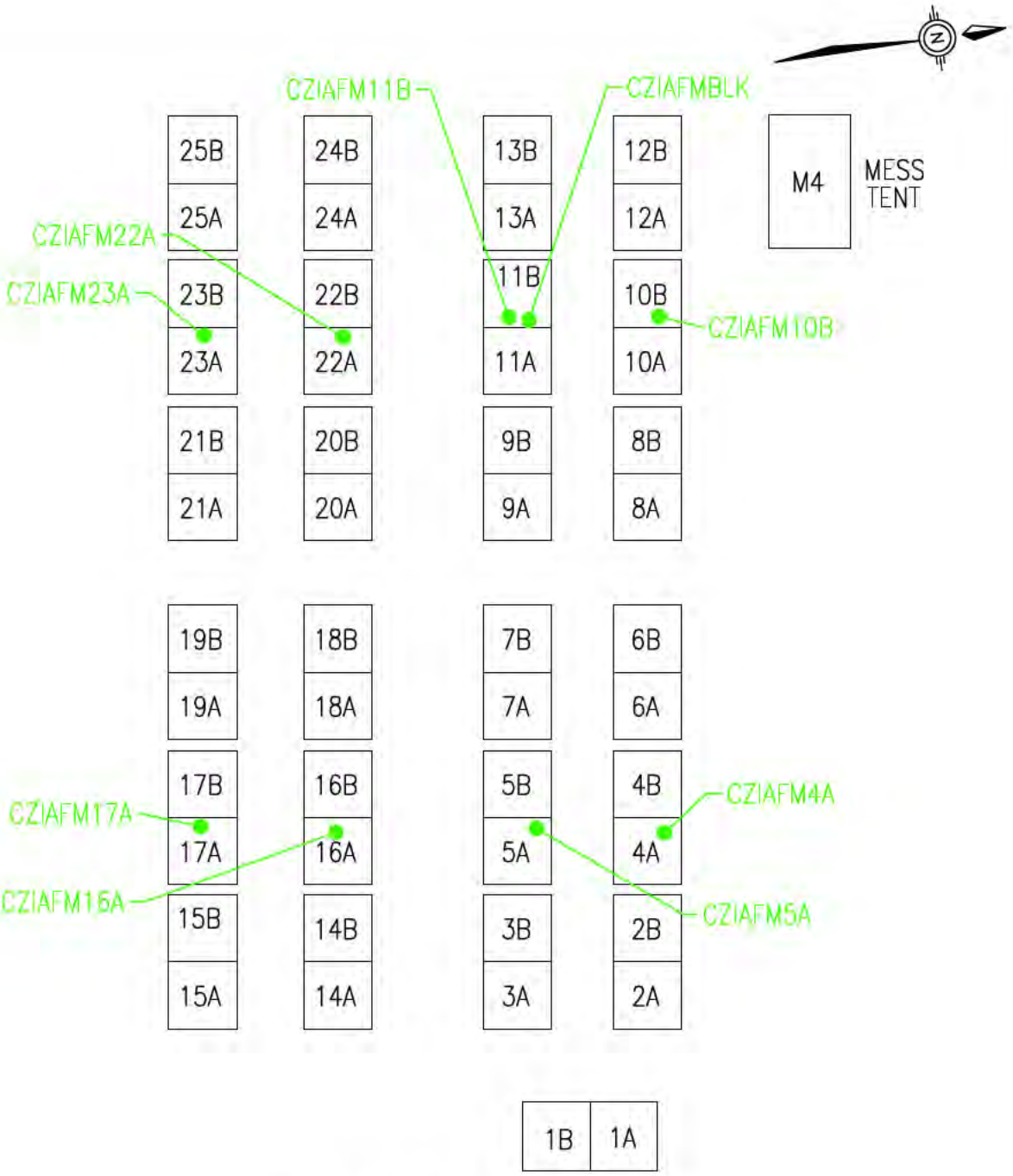

OLD CUZCOS

SAMPLE TYPES

● – FORMALDEHYDE

NOT TO SCALE

FIGURE 6
OLD CUZCOS
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command

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REQUESTED BY: R.THOMAS	DATE: 11/18/15
DRAWN BY: BRONSON	DWG NAME: 17816_B012

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Attachment B
Laboratory Analytical Report

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5/2/2016
Mr. Mike Dryden
Earth Toxics, Inc.
206 Quail Way

Logan UT 84321

Project Name: Site Investigation
Project #: 0888817816
Workorder #: 1604558

Dear Mr. Mike Dryden

The following report includes the data for the above referenced project for sample(s) received on 4/27/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-11A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1604558

Work Order Summary

CLIENT:	Mr. Mike Dryden Earth Toxics, Inc. 206 Quail Way Logan, UT 84321	**BILL TO:**	Mr. Mike Dryden Earth Toxics, Inc. 206 Quail Way Logan, UT 84321
PHONE:	925-513-1270	**P.O. #**	
FAX:		**PROJECT #**	0888817816 Site Investigation
DATE RECEIVED:	04/27/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	05/02/2016		

FRACTION #	NAME	TEST
01A	CZIAFM27B-1	Modified TO-11A
02A	CZIAFM28B-1	Modified TO-11A
03A	CZIAFM35A-1	Modified TO-11A
04A	CZIAFM36A-1	Modified TO-11A
05A	CZIAFM48A-1	Modified TO-11A
06A	CZIAFM47A-1	Modified TO-11A
07A	CZIAFM44A-1	Modified TO-11A
08A	CZIAFM43A-1	Modified TO-11A
09A	CZIAFM4A-1	Modified TO-11A
10A	CZIAFM5A-1	Modified TO-11A
11A	CZIAFM10B-1	Modified TO-11A
12A	CZIAFM11B-1	Modified TO-11A
13A	CZIAFM23A-1	Modified TO-11A
14A	CZIAFM22A-1	Modified TO-11A
15A	CZIAFM17A-1	Modified TO-11A
16A	CZIAFM16A-1	Modified TO-11A
17A	CZIAFMBLK	Modified TO-11A
18A	Lab Blank	Modified TO-11A
19A	LCS	Modified TO-11A
19AA	LCSD	Modified TO-11A

CERTIFIED BY: Heidi Mayo DATE: 05/02/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-11A
Earth Toxics, Inc.
Workorder# 1604558

Seventeen TO-11 Cartridge samples were received on April 27, 2016. The laboratory performed analysis via modified Method TO-11A using reverse phase High Pressure Liquid Chromatography (HPLC) with an Ultraviolet (UV) Detector. The method involves eluting the sorbent tubes with acetonitrile using a gravity feed technique. Method modifications taken to run these samples include:

Requirement	***TO-11A***	***ATL Modifications***
ACN Purity Check	Contribution of analytes from ACN determined as described Sections 9.1.1 and 9.1.2 of Compendium TO-11A.	Total contribution of analytes from ACN and cartridge combined is determined.
Initial Calibration Curve (ICAL)	Multi-point using linear regression performed every 6 months; r^2 > 0.999	Multi-point using average Response Factor; % RSD </= 10 %. Re-calibration if daily cal. fails, major maintenance, or column change. Linear regression is performed when requested.
Blank Subtraction	Average blank concentrations calculated. Blank value subtracted from sample result.	One Lab Blank is analyzed per batch; no blank subtraction performed on samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Sampling volume was supplied by the client. A sample volume of 586 L was used to report sample CZIAFMBLK and the Laboratory Blank.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Media for this analysis was certified at the Reporting Limit. Concentrations that are below the level at which the media was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
AMBIENT AIR: EPA METHOD TO-11A HPLC

Client Sample ID: CZIAFM27B-1

Lab ID#: 1604558-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.085	1.6	2.8

Client Sample ID: CZIAFM28B-1

Lab ID#: 1604558-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.8	4.8

Client Sample ID: CZIAFM35A-1

Lab ID#: 1604558-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	9.0	16

Client Sample ID: CZIAFM36A-1

Lab ID#: 1604558-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5

Client Sample ID: CZIAFM48A-1

Lab ID#: 1604558-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	1.9	3.3

Client Sample ID: CZIAFM47A-1

Lab ID#: 1604558-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5

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Summary of Detected Compounds
AMBIENT AIR: EPA METHOD TO-11A HPLC

Client Sample ID: CZIAFM44A-1

Lab ID#: 1604558-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.7	4.7

Client Sample ID: CZIAFM43A-1

Lab ID#: 1604558-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	1.3	2.3

Client Sample ID: CZIAFM4A-1

Lab ID#: 1604558-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	5.0	8.8

Client Sample ID: CZIAFM5A-1

Lab ID#: 1604558-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	7.3	13

Client Sample ID: CZIAFM10B-1

Lab ID#: 1604558-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	8.0	14

Client Sample ID: CZIAFM11B-1

Lab ID#: 1604558-12A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.1	5.3

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Summary of Detected Compounds
AMBIENT AIR: EPA METHOD TO-11A HPLC

Client Sample ID: CZIAFM23A-1

Lab ID#: 1604558-13A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.7	4.8

Client Sample ID: CZIAFM22A-1

Lab ID#: 1604558-14A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.9	5.0

Client Sample ID: CZIAFM17A-1

Lab ID#: 1604558-15A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	5.7	9.9

Client Sample ID: CZIAFM16A-1

Lab ID#: 1604558-16A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.1	5.4

Client Sample ID: CZIAFMBLK

Lab ID#: 1604558-17A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.085	0.031 J	0.053 J

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Client Sample ID: CZIAFM27B-1

Lab ID#: 1604558-01A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429037**	**Date of Collection: 4/21/16 3:50:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/29/16 11:17 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.085	1.6	2.8

Air Sample Volume(L): 586
Container Type: TO-11 Cartridge

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Client Sample ID: CZIAFM28B-1

Lab ID#: 1604558-02A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429038**	**Date of Collection: 4/21/16 3:48:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/29/16 11:43 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.8	4.8

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

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Client Sample ID: CZIAFM35A-1

Lab ID#: 1604558-03A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429039**	**Date of Collection: 4/21/16 3:51:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 12:09 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	9.0	16

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

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Client Sample ID: CZIAFM36A-1

Lab ID#: 1604558-04A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429040**	**Date of Collection: 4/21/16 3:53:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 12:35 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM48A-1

Lab ID#: 1604558-05A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429041**	**Date of Collection: 4/21/16 3:31:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 01:01 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	1.9	3.3

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM47A-1

Lab ID#: 1604558-06A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429042**	**Date of Collection: 4/21/16 3:33:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 01:27 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM44A-1

Lab ID#: 1604558-07A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429043**	**Date of Collection: 4/21/16 3:36:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 01:53 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.7	4.7

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM43A-1

Lab ID#: 1604558-08A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429044**	**Date of Collection: 4/21/16 3:38:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 02:19 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	1.3	2.3

Air Sample Volume(L): 576

Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM4A-1

Lab ID#: 1604558-09A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429045**	**Date of Collection: 4/21/16 4:10:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 02:45 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	5.0	8.8

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM5A-1

Lab ID#: 1604558-10A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429081**	**Date of Collection: 4/21/16 4:13:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 06:19 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	7.3	13

Air Sample Volume(L): 576

Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM10B-1

Lab ID#: 1604558-11A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429049**	**Date of Collection: 4/21/16 4:16:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 04:29 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	8.0	14

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM11B-1

Lab ID#: 1604558-12A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429050**	**Date of Collection: 4/21/16 4:20:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 04:55 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.1	5.3

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM23A-1

Lab ID#: 1604558-13A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429051**	**Date of Collection: 4/21/16 4:01:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 05:21 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.7	4.8

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM22A-1

Lab ID#: 1604558-14A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429052**	**Date of Collection: 4/21/16 3:59:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 05:47 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.9	5.0

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM17A-1

Lab ID#: 1604558-15A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429053**	**Date of Collection: 4/21/16 4:04:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 06:12 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	5.7	9.9

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: CZIAFM16A-1

Lab ID#: 1604558-16A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429054**	**Date of Collection: 4/21/16 4:07:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 06:38 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.1	5.4

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

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Client Sample ID: CZIAFMBLK

Lab ID#: 1604558-17A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429036**	**Date of Collection: 4/21/16 4:28:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/29/16 10:51 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.085	0.031 J	0.053 J

Air Sample Volume(L): 586

J = Estimated value.

Container Type: TO-11 Cartridge

Client Sample ID: Lab Blank

Lab ID#: 1604558-18A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429048**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 04:03 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.085	0.026 J	0.044 J

Air Sample Volume(L): 586

J = Estimated value.

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1604558-19A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429033**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/29/16 09:34 PM**	
		Date of Extraction: 4/29/16	

Compound	%Recovery	Method Limits
Formaldehyde	91	85-115

Air Sample Volume(L): 1.00

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1604558-19AA

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429034**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/29/16 10:00 PM**	
		Date of Extraction: 4/29/16	

Compound	%Recovery	Method Limits
Formaldehyde	98	85-115

Air Sample Volume(L): 1.00

Container Type: NA - Not Applicable

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. | Page 1 of 3

Project Name: Site Investigation | PO No. | Project No: 088817816 Phase: SI Task: SI

Site Location: GTMO, Cuba

CTO No. JMB5 RC Task Order Manager: Paul Stoddard

Sampler/Site Phone# Robbie Thomas/

Lab Name: Air Toxics Turnaround Time(specify): 7 days

Sample Analysis Requested (*Enter number of containers for each test*)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	(3)→ Total No. of Containers	Formaldehyde		Sample Volume	Unit									Extra Volume for MS/MSD	HOLD
01a	CZIAFM27B-1	27B	4/21/16	1550		N	N	1	X		586	L										
02a	CZIAFM28B-1	28B	4/21/16	1548		N	N	1	X		576	L										
03a	CZIAFM35A-1	35A	4/21/16	1551		N	N	1	X		576	L										
04a	CZIAFM36A-1	36A	4/21/16	1553		N	N	1	X		576	L										
05a	CZIAFM48A-1	48A	4/21/16	1531		N	N	1	X		576	L										
06a	CZIAFM47A-1	47A	4/21/16	1533		N	N	1	X		576	L										
07a	CZIAFM44A-1	44A	4/21/16	1536		N	N	1	X		576	L										
08a	CZIAFM43A-1	43A	4/21/16	1538		N	N	1	X		576	L										
09a	CZIAFM4A-1	4A	4/21/16	1610		N	N	1	X		576	L										
10a	CZIAFM5A-1	5A	4/21/16	1613		N	N	1	X		576	L										
11a	CZIAFM10B-1	10B	4/21/16	1616		N	N	1	X		576	L										
12a	CZIAFM11B-1	11B	4/21/16	1620		N	N	1	X		576	L										

***Field* Comments:**

***Lab* Comments:**

Custody Seal Intact?
Y N Cooler Temp 1.6°
FedEx

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

	Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1	Robbie Thomas	4/23/16	0710	[illegible]	4/23/16	0710
2	[illegible]	4/25/16	0945	[illegible]	04/25/2016	0945
3	[illegible] 04/26/2016	~~04/25/2016~~	1630	Andrea Bugarin FAIC	4/27/16	0940

Samples Iced?(check) Yes X No

Airbill No: 04/26/2016

Date Shipped: ~~04/25/2016~~ CN

160458

(1) AA=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) Sample Type: AB=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: HA=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate If **NO preservative** added leave blank

Rev 5/12

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. | Page 2 of 3

Project Name: Site Investigation | PO No. | Project No: 088817 816 Phase: SI Task: SI

Site Location: GTMO, Cuba

CTO No. JMB5 | RC Task Order Manager: Paul Stoddard

Sampler/Site Phone# Robbie Thomas/ [redacted]

Lab Name: Air Toxics | Turnaround Time(specify): 7 days

Sample Analysis Requested (*Enter number of containers for each test*)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	(3)→ Total No. of Containers	For Maldehyde		Sample Volume	Unit								Extra Volume for MS/MSD	HOLD
13a	C2IAFM23A-1	23A	4/21/16	1601		N	N	1	X		576	L									
14a	C2IAFM22A-1	22A	4/21/16	1559		N	N	1	X		576	L									
15a	C2IAFM17A-1	17A	4/21/16	1604		N	N	1	X		576	L									
16a	C2IAFM16A-1	16A	4/21/16	1607		N	N	1	X		576	L									
17a	C2IAFMBLK	BLK	4/21/16	1628		N	N	1	X		Ø	L									
	AV32IAFMMP-1	MP	4/22/16	1519		N	N	1	X		576	L									
	AV32IAFMM01-1	M01	4/23/16	0636		N	N	1	X		723	L									
K16	AV32IAFMM02-1	M02	4/22/16	1526		N	N	1	X		576	L									
4/21/16	AV32IAFMBLK	BLK	4/22/16	1530		N	N	1	X		Ø	L									
	ELCIAFMBL29-1	BL29	4/22/16	1620		N	N	1	X		576	L									
	ELCIAFMBL30-1	BL30	4/22/16	1623		N	N	1	X		576	L									
	ELCIAFMBL11-1	BL11	4/22/16	1629		N	N	1	X		576	L									

***Field* Comments:**

***Lab* Comments:** Custody Seal Intact? ○ None Temp 1.6° FedEx

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

Relinquished by (signature)	Date	Time
1 Robbie Thomas	4/23/16	0710
2 [signature]	4/25/16	0945
3 [signature] 04/26/2016	04/25/2016 CN	1630

Received by (signature)	Date	Time
1 [signature]	4/25/16	0710
2 [signature]	04/25/2016	0945
3 Andrea Augustin EATL	4/27/16	0940

Samples Iced?(check) Yes X No ___

Airbill No: 04/26/2016

Date Shipped: ~~04/25/2016~~ CN

160455578

(1) AA=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) Sample Type: AB=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: HA=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate If **NO preservative** added leave blank

Rev 5/12

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5/2/2016
Mr. Mike Dryden
Earth Toxics, Inc.
206 Quail Way

Logan UT 84321

Project Name: Site Investigation
Project #: 0888817816
Workorder #: 1604561

Dear Mr. Mike Dryden

The following report includes the data for the above referenced project for sample(s) received on 4/27/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-11A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604561

Work Order Summary

CLIENT:	Mr. Mike Dryden Earth Toxics, Inc. 206 Quail Way Logan, UT 84321	**BILL TO:**	Mr. Mike Dryden Earth Toxics, Inc. 206 Quail Way Logan, UT 84321
PHONE:	925-513-1270	**P.O. #**	
FAX:		**PROJECT #**	0888817816 Site Investigation
DATE RECEIVED:	04/27/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	05/02/2016		

FRACTION #	NAME	TEST
01A	AV32IAFMMP-1	Modified TO-11A
02A	AV32IAFMM01-1	Modified TO-11A
03A	AV32IAFMM02-1	Modified TO-11A
04A	AV32IAFMBLK	Modified TO-11A
05A	ELCIAFMBL29-1	Modified TO-11A
06A	ELCIAFMBL30-1	Modified TO-11A
07A	ELCIAFMBL11-1	Modified TO-11A
08A	ELCIAFMBL5-1	Modified TO-11A
09A	ELCIAFMBL2-1	Modified TO-11A
10A	ELCIAFMBL4-1	Modified TO-11A
11A	ELCIAFMBL8-1	Modified TO-11A
12A	ELCIAFMBL3107-1	Modified TO-11A
13A	ELCIAFMBL1-1	Modified TO-11A
14A	ELCIAFMBL1-COM	Modified TO-11A
15A	AV29IAFMST-1	Modified TO-11A
16A	AV29IAFMFT-1	Modified TO-11A
17A	Lab Blank	Modified TO-11A
18A	LCS	Modified TO-11A
18AA	LCSD	Modified TO-11A

CERTIFIED BY: Heidi Mayo DATE: 05/02/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-11A
Earth Toxics, Inc.
Workorder# 1604561

Sixteen TO-11 Cartridge samples were received on April 27, 2016. The laboratory performed analysis via modified Method TO-11A using reverse phase High Pressure Liquid Chromatography (HPLC) with an Ultraviolet (UV) Detector. The method involves eluting the sorbent tubes with acetonitrile using a gravity feed technique. Method modifications taken to run these samples include:

Requirement	***TO-11A***	***ATL Modifications***
ACN Purity Check	Contribution of analytes from ACN determined as described Sections 9.1.1 and 9.1.2 of Compendium TO-11A.	Total contribution of analytes from ACN and cartridge combined is determined.
Initial Calibration Curve (ICAL)	Multi-point using linear regression performed every 6 months; r^2 > 0.999	Multi-point using average Response Factor; % RSD </= 10 %. Re-calibration if daily cal. fails, major maintenance, or column change. Linear regression is performed when requested.
Blank Subtraction	Average blank concentrations calculated. Blank value subtracted from sample result.	One Lab Blank is analyzed per batch; no blank subtraction performed on samples.

Receiving Notes

The Chain of Custody (COC) information for sample ELCIAFMBL1-1 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

Sampling volume was supplied by the client. A sample volume of 723 L was used to report sample AV32IAFMBLK and the Laboratory Blank.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Media for this analysis was certified at the Reporting Limit. Concentrations that are below the level at which the media was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
AMBIENT AIR: EPA METHOD TO-11A HPLC

Client Sample ID: AV32IAFMMP-1

Lab ID#: 1604561-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5

Client Sample ID: AV32IAFMM01-1

Lab ID#: 1604561-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.069	4.3	5.9

Client Sample ID: AV32IAFMM02-1

Lab ID#: 1604561-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	6.5	11

Client Sample ID: AV32IAFMBLK

Lab ID#: 1604561-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.069	0.023 J	0.032 J

Client Sample ID: ELCIAFMBL29-1

Lab ID#: 1604561-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	6.6	11

Client Sample ID: ELCIAFMBL30-1

Lab ID#: 1604561-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	4.3	7.5

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Summary of Detected Compounds
AMBIENT AIR: EPA METHOD TO-11A HPLC

Client Sample ID: ELCIAFMBL11-1

Lab ID#: 1604561-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.5	6.1

Client Sample ID: ELCIAFMBL5-1

Lab ID#: 1604561-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.5	6.1

Client Sample ID: ELCIAFMBL2-1

Lab ID#: 1604561-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.7	4.7

Client Sample ID: ELCIAFMBL4-1

Lab ID#: 1604561-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.9	5.1

Client Sample ID: ELCIAFMBL8-1

Lab ID#: 1604561-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	4.5	7.9

Client Sample ID: ELCIAFMBL3107-1

Lab ID#: 1604561-12A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.3	5.6

eurofins | Air Toxics

Summary of Detected Compounds
AMBIENT AIR: EPA METHOD TO-11A HPLC

Client Sample ID: ELCIAFMBL1-1

Lab ID#: 1604561-13A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.5	4.3

Client Sample ID: ELCIAFMBL1-COM

Lab ID#: 1604561-14A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.6	4.5

Client Sample ID: AV29IAFMST-1

Lab ID#: 1604561-15A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.069	9.8	14

Client Sample ID: AV29IAFMFT-1

Lab ID#: 1604561-16A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	5.5	9.5

eurofins | Air Toxics

Client Sample ID: AV32IAFMMP-1

Lab ID#: 1604561-01A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429064**	**Date of Collection: 4/22/16 3:19:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 10:58 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: AV32IAFMM01-1

Lab ID#: 1604561-02A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429065**	**Date of Collection: 4/23/16 6:36:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 11:24 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.069	4.3	5.9

Air Sample Volume(L): 723
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: AV32IAFMM02-1

Lab ID#: 1604561-03A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429066**	**Date of Collection: 4/22/16 3:26:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 11:50 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	6.5	11

Air Sample Volume(L): 576

Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: AV32IAFMBLK

Lab ID#: 1604561-04A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429063**	**Date of Collection: 4/22/16 3:30:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 10:32 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.069	0.023 J	0.032 J

Air Sample Volume(L): 723

J = Estimated value.

Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL29-1

Lab ID#: 1604561-05A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429067**	**Date of Collection: 4/22/16 4:20:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 12:16 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	6.6	11

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL30-1

Lab ID#: 1604561-06A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429068**	**Date of Collection: 4/22/16 4:23:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 12:42 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	4.3	7.5

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL11-1

Lab ID#: 1604561-07A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429069**	**Date of Collection: 4/22/16 4:29:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 01:08 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.5	6.1

Air Sample Volume(L): 576

Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL5-1

Lab ID#: 1604561-08A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429070**	**Date of Collection: 4/22/16 4:34:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 01:34 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.5	6.1

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL2-1

Lab ID#: 1604561-09A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429071**	**Date of Collection: 4/22/16 4:39:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 02:00 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.7	4.7

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL4-1

Lab ID#: 1604561-10A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429072**	**Date of Collection: 4/22/16 4:44:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 02:26 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.9	5.1

Air Sample Volume(L): 576

Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL8-1

Lab ID#: 1604561-11A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429075**	**Date of Collection: 4/22/16 4:50:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 03:43 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	4.5	7.9

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL3107-1

Lab ID#: 1604561-12A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429076**	**Date of Collection: 4/22/16 4:55:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 04:09 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.3	5.6

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL1-1

Lab ID#: 1604561-13A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429077**	**Date of Collection: 4/22/16 5:02:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 04:35 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.5	4.3

Air Sample Volume(L): 576
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: ELCIAFMBL1-COM

Lab ID#: 1604561-14A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429078**	**Date of Collection: 4/22/16 5:07:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 05:01 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.6	4.5

Air Sample Volume(L): 576

Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: AV29IAFMST-1

Lab ID#: 1604561-15A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429079**	**Date of Collection: 4/23/16 6:28:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 05:27 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.069	9.8	14

Air Sample Volume(L): 723
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: AV29IAFMFT-1

Lab ID#: 1604561-16A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429080**	**Date of Collection: 4/22/16 5:51:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 05:53 PM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	5.5	9.5

Air Sample Volume(L): 577
Container Type: TO-11 Cartridge

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1604561-17A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429057a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 07:56 AM**	
		Date of Extraction: 4/29/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.069	0.021 J	0.029 J

Air Sample Volume(L): 723

J = Estimated value.

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1604561-18A

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429055**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 07:04 AM**	
		Date of Extraction: 4/29/16	

Compound	%Recovery	Method Limits
Formaldehyde	90	85-115

Air Sample Volume(L): 1.00

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1604561-18AA

AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	**f0429056**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/16 07:30 AM**	
		Date of Extraction: 4/29/16	

Compound	%Recovery	Method Limits
Formaldehyde	94	85-115

Air Sample Volume(L): 1.00

Container Type: NA - Not Applicable

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. | Page 2 of 3

Project Name: Site Investigation | PO No. | Project No: 68888178.16 Phase: SI Task: SI

Site Location: GTMO, Cuba | **Sample Analysis Requested** (*Enter number of containers for each test*)

CTO No. JMB5 | RC Task Order Manager: Paul Stoddard

Sampler/Site Phone# Robbie Thomas/ [redacted]

Lab Name: Air Toxics | Turnaround Time(specify): 7 days

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	(3)→ Total No. of Containers	Formaldehyde		Sample Volume	Unit	Extra Volume for MS/MSD	HOLD
~~13a~~	C2IAFM23A-1	23A	4/21/16	1601		N	N	1	X		576	L		
14	C2IAFM22A-1	22A	4/21/16	1559		N	N	1	X		576	L		
	C2IAFM17A-1	17A	4/21/16	1604		N	N	1	X		576	L		
	C2IAFM16A-1	16A	4/21/16	1607		N	N	1	X		576	L		
	C2IAFM BLK	BLK	4/21/16	1628		N	N	1	X		Ø	L		
01a	AV32IAFMMP-1	MP	4/22/16	1519		N	N	1	X		576	L		
02a	AV32IAFMM01-1	M01	4/~~23~~22/16	0636		N	N	1	X		723	L		
03a	AV32IAFMM02~~1~~-1	M02	4/22/16	1526		N	N	1	X		576	L		
04a	AV32IAFMBLK	BLK	4/22/16	1530		N	N	1	X		Ø	L		
05a	ELCIAFMBL29-1	BL29	4/22/16	1620		N	N	1	X		576	L		
06a	ELCIAFMBL30-1	BL30	4/22/16	1623		N	N	1	X		576	L		
07a	ELCIAFMBL11-1	BL11	4/22/16	1629		N	N	1	X		576	L		

1C1C 4/27/16

1604561

***Field* Comments:**

***Lab* Comments:**

1.6°C

Fed Ex

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1 Robbie Thomas	4/23/16	0710	1 AE	4/25/16	0710
2 KC	4/25/16	0945	2	04/25/2016	0945
3	04/26/2016 04/25/2016 CN	1630	3 Andrea Armentia EATL	4/27/16	0940

Samples Iced?(check) Yes X No

Airbill No: 04/26/2016

Date Shipped: ~~04/25/2016~~ CN

(1) AA=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) Sample Type: AB=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: HA=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate If **NO preservative** added leave blank

Rev 5/12

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. | Page 3 of 3

Project Name: Site Investigation | PO No. | Project No: 08887816 Phase: SI Task: SI

Site Location: GTMO, Cuba

CTO No. JMB5 | RC Task Order Manager: Paul Stoddard

Sampler/Site Phone# Robbie Thomas/

Lab Name: Air Toxics | Turnaround Time(specify): 7 days

Sample Analysis Requested (*Enter number of containers for each test*)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	(3)→ Total No. of Containers	Formaldehyde		Sample Volume	Unit									Extra Volume for MS/MSD	HOLD
08a	ELCIAFMBL5-1	BL5	4/22/16	1634	A	N	N	1	X		576	L										
09a	ELCIAFMBL2-1	BL2	4/22/16	1639		N	N	1	X		576	L										
10a	ELCIAFMBL4-1	BL4	4/22/16	1644		N	N	1	X		576	L										
11a	ELCIAFMBL8-1	BL8	4/22/16	1650		N	N	1	X		576	L										
12a	ELCIAFMBL3107-1	BL3	4/22/16	1655		N	N	1	X		576	L										
13a	ELCIAFMBL1-1	BL1	4/22/16	1702		N	N	1	X		576	L										
14a	ELCIAFMBL1-COM	BL1	4/22/16	1707		N	N	1	X		576	L										
~~—~~	~~ELCIAFMBLK~~	~~BLK~~	~~4/22/16~~			~~N~~	~~N~~	~~1~~	~~X~~			~~L~~										FT
15a	AV29IAFMBST-1	ST	4/23/16	0628		N	N	1	X		723	L										
16a	AV29IAFMFT-1	FT	4/22/16	1751		N	N	1	X		577	L										

***Field* Comments:**

***Lab* Comments:** Custody Seal Intact? ○ Yes ○ No Temp 1.6°C FedEx

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

Relinquished by (signature)	Date	Time
1 Robbie Thomas	4/23/16	0710
2	4/25/16	0945
3	04/26/2016 ~~04/25/2016~~ CN	1630

Received by (signature)	Date	Time
1	4/23/16	0710
2	04/25/2016	0945
3 Andrea Augustin	4/27/16	0940

Samples Iced?(check) Yes X No

Airbill No: 04/26/2016

Date Shipped: ~~04/25/2016~~ CN

160456161

(1) AA=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) Sample Type: AB=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Ouplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: HA=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate If **NO preservative** added leave blank

Rev 5/12

Attachment A — Field Monitoring Results
NS GITMO

Field Assessor	Building/Room No.	Sample Date	Pump Brand	Pump #	Sample ID	Start	Stop	Sample Length (min.)	Pre-Cal	Post-Cal	Flow Rate (l/m)	Volume (l)
RT/AO	~~20~~ CZ/21B	4/21/16	GilAir 5	BGPU-003	CZIAFM27B-1	0742	1550	~~48~~ 0	1.2	1.2	0.00	0.0
											0.00	0.0
RT/AO	CZ/28B	4/21/16	GilAir 3	PG588	CZIAFM28B-1	0748	1548	~~48~~ 0	1.2	1.2	0.00	0.0
											0.00	0.0
RT/AO	CZ/35A	4/21/16	GilAir 3	PG476	CZIAFM35A-1	0751	1551	480	1.2	1.2		
RT/AO	CZ/36A	4/21/16	GilAir 3	PG578	CZIAFM36A-1	0753	1553	480	1.2	1.2		
RT/AO	CZ/48A	4/21/16	Aircheck 52	P1500	CZIAFM48A-1	0731	1531	480	1.2	1.2		
RT/AO	CZ/47A	4/21/16	Aircheck 52	P888	CZIAFM47A-1	0733	1533	480	1.2	1.2		
RT/AO	CZ/44A	4/21/16	Aircheck 52	P1065	CZIAFM44A-1	0736	1536	480	1.2	1.2		
RT/AO	CZ/43A	4/21/16	GilAir 5	BGPU-005	CZIAFM43A-1	0738	1538	480	1.2	1.2		
RT/AO	CZ/4A	4/21/16	GilAir 3	PG275	CZIAFM4A-1	0810	1610	480	1.2	1.2		
RT/AO	CZ/5A	4/21/16	GilAir 3	PG122	CZIAFM5A-1	0813	1613	480	1.2	1.2		
RT/AO	CZ/10B	4/21/16	GilAir 3	PG154	CZIAFM10B-1	0816	1616	480	1.2	1.2		
RT/AO	CZ/11B	4/21/16	GilAir 3	PG096	CZIAFM11B-1	0820	1620	480	1.2	1.2		
RT/AO	CZ/23A	4/21/16	GilAir	PG559	CZIAFM23A-1	0801	1601	480	1.2	1.2		
RT/AO	CZ/22A	4/21/16	GilAir 3	PG722	CZIAFM22A-1	0759	1559	480	1.2	1.2	0.00	0.0
								0			0.00	0.0
RT/AO	CZ/17A	4/21/16	GilAir 3	PG283	CZIAFM17A-1	0804	1604	0	1.2	1.2	0.00	0.0
								0			0.00	0.0
RT/AO	CZ/16A	4/21/16	GilAir 3	PG494	CZIAFM16A-1	0807	~~1607~~ 1607	0	1.2	1.05	0.00	0.0
								0			0.00	0.0
RT/AO	CZ/BLK	4/21/16	—	—	CZIAFMBLK	—	1628	0	—	—	0.00	0.0
								0			0.00	0.0
								0			0.00	0.0
								0			0.00	0.0
								0			0.00	0.0
								0			0.00	0.0
								0			0.00	0.0

Sampling Equipment:	
Analytical Laboratory:	
Exposure Limits:	

Attachment A – Field Monitoring Results
NS GITMO

Field Assessor	Building/Room No.	Sample Date	Pump Brand	Pump #	Sample ID	Start	Stop	Sample Length (min.)	Pre-Cal	Post-Cal	Flow Rate (l/m)	Volume (l)
RT/AO	AV-32 / MP	4/22/16	Gil Air 5	BGPU-003	AV32IAFMMP-1	0719	1519	480	1.2	1.2	0.00	0.0
								0			0.00	0.0
RT/AO	AV-32 / MO1	4/22/16	Gil Air 3	PG494	AV32IAFMMO1-1	0723	—	Pump Failure	1.2	—	0.00	0.0
								0			0.00	0.0
RT/AO	AV-32 / MO2	4/22/16	Gil Air 3	PG283	AV32IAFMMO2-1	0726	1526	480	1.2	1.2		
RT/AO	AV32 / Blank	4/22/16	—	—	AV32IAFMBLK	—	1530	—	—	—		
RT/AO	ELC / BL-29	4/22/16	Aircheck 52	P1057	ELCIAFMBL29-1	0820	1620	480	1.2	1.2		
RT/AO	ELC / BL-30	4/22/16	Aircheck 52	P1500	ELCIAFMBL30-1	0823	1623	480	1.2	1.2		
RT/AO	ELC / BL-11	4/22/16	Gil Air 3	PG559	ELCIAFMBL11-1	0829	1629	480	1.2	1.2		
RT/AO	ELC / BL-5	4/22/16	Gil Air 3	PG722	ELCIAFMBL5-1	0834	1634	480	1.2	1.2		
RT/AO	ELC / BL-2	4/22/16	Gil Air 3	PG096	ELCIAFMBL2-1	0839	1639	480	1.2	1.2		
RT/AO	ELC / BL-4	4/22/16	Gil Air 3	PG578	ELCIAFMBL4-1	0844	1644	480	1.2	1.2		
RT/AO	ELC / BL-8	4/22/16	Gil Air 3	PG588	ELCIAFMBL8-1	0850	1650	480	1.2	1.2		
~~RT/AO~~	~~ELC / BL~~											
RT/AO	ELC / BL3-107	4/22/16	Gil Air 3	PG476	ELCIAFMBL3107-1	0855	1655	480	1.2	1.2		
RT/AO	ELC / BL-1	4/22/16	Gil Air 3	PG122	ELCIAFMBL1-1	0902	1702	480	1.2	1.2		
RT/AO	ELC / BL-1 Com	4/22/16	Gil Air 3	PG275	ELCIAFMBL1-COM	0907	1707	0	1.2	1.2	0.00	0.0
								0			0.00	0.0
RT/AO	AV-29 / Sat. Trailer	4/22/16	Gil Air	BG94-001	AV29IAFMST-1	0945	~~1745~~	~~480~~ Pump Failure	1.2	Pump failure	0.00	0.0
								0			0.00	0.0
RT/AO	AV-29 / Fam. Trailer	4/22/16	Gil Air 3	PG154	AV29IAFMFT-1	0950	1750	481	1.2	1.2	0.00	0.0
								0			0.00	0.0
RT/AO	AV-29 / Sat. Trailer	4/23/16	Gil Air 3	PG154	AV29IAFMST-1	1825	0628	723	1.2	1.2	0.00	~~868~~ 0.0
								0			0.00	0.0
RT/AO	AV-~~24~~ 32 / MO1	4/23/16	Gil Air 3	PG275	AV~~29~~32IAFMMO1-1	1833	~~0628~~ 0636	723	1.2	1.2	0.00	~~723~~ 0.0
								0			0.00	0.0
								0			0.00	0.0
								0			0.00	0.0
								0			0.00	0.0

Sampling Equipment:	
Analytical Laboratory:	
Exposure Limits:	