ACT ENVIRONMENTAL INCORPORATED
associated consulting technologies

September 4, 2008

RECEIVED
SEP 09 2008
ENVIRONMENTAL SERVICES
100 N. STONE AVE., 2ND FLOOR

Ms. Molly Collins
City of Tucson, Environmental Services Department
100 N. Stone, 2nd Floor
Tucson, Arizona 85701

RE: Air Quality Survey, Rio Nuevo Landfill Compost Canisters

Dear Ms. Collins:

This air quality survey was conducted at the request of the Environmental Services Department at the City of Tucson. The air quality survey included the Rio Nuevo landfill stabilization compost canisters. The Rio Nuevo landfill stabilization compost canisters are located 500 feet east of the intersection of Clearwater Drive and Melwood Avenue in Tucson, Arizona. The air quality survey was conducted on August 11, 2008.

Background

The City of Tucson operates a bioreactor system. The system has been operating for approximately 18 months and is expected to continue for an addition 6 months. The bio-reactor system injects air and water into the subsurface of the former landfill and simultaneously exhausts air. The injected air and water along with natural microbes breakdown the landfill organic waste. The exhausted air is filtered through a series of compost canisters.

The air quality survey was performed to evaluate employee volatile organic compounds (VOCs) exposures during normal operation conditions. The air quality survey also evaluates VOC effluent emissions.

On the day of the survey, August 11, 2008, the compost canisters were operating normally. All of the compost canisters had new bio-media recently installed. Wind speed and direction throughout the sampling period, from 9:00 to 4:00 pm, were variable. As reported at Tucson International airport, the wind speed ranged from 0 to 13 mph. During the sampling period, the listed wind direction was north, west, west northwest, and variable.

AEI collected air samples from employee breathing zones and fixed areas. Long term time weighted average (TWA) samples were collected to evaluate worker exposure. Short term point source samples were collected to evaluate area concentrations of VOCs.

Long Term VOC Sampling

VOC sampling was conducted during normal routine operation of the bioreactor system. Samples were collected over a period of seven hours. VOC's include 30 common VOC's. The sampling was conducted with passive samplers in accordance with modified method EPA-TO17. Sample 28114-1-8-11 was collected on an employee during normal site work activities. Sample 28114-2-8-11 was an area sample collected near the effluent of the compressor fan, and sample 28114-3-8-11 was an area sample collected at the west property boundary near the intersection of Clearwater Drive and Melwood Avenue. The sample locations are shown on figure 1.

7592 N. La Cholla Blvd. • Tucson, Arizona 85741 • www.actenv.com • (520) 791-9029 fax (520) 791-9062

Short Term VOC Sampling

VOC sampling was conducted during routine normal operation of the bioreactor system. Samples were collected over a two minute sample period at the west property boundary and at the effluent exhaust of compost canister #8. A schematic drawing of a compost canister is shown in figure 2. The method includes 64 chemicals of concern listed on EPA method TO15. The sampling was conducted with Summa canisters in accordance with EPA-TO15. Sample 28114-4-8-11 was collected at the west property boundary at the same location as long term sample 28114-3-8-11. Sample 28114-5-8-11 was collected at the effluent exhaust of compost canister #8.

Analytical Laboratories and Method

Long term VOC samples were analyzed by Data Chem Laboratories located in Salt Lake City, Utah. Data Chem laboratories is an American Industrial Hygiene Association accredited laboratory. The sampling was conducted with passive samplers in accordance with modified method EPA-TO17. This method is used to evaluate 30 common VOCs. This method uses long term samplers containing sample media which cannot collect all VOCs listed in method TO15.

Short term VOC samples were analyzed by Test America located in Phoenix, Arizona. Test America is licenced through the State of Arizona for EPA method TO-15. This sampling was conducted with a Summa tank. This method is intended for point source short term sampling and is not practical for the collection of long term employee samples. This method allows for the collection of 64 VOCs.

Findings

Long term VOC exposures for employee and area samples were found to be below detection limits. The detection limits for the 30 listed VOC's were found to be below the applicable OSHA permissible exposure limits (PEL).

Short term point source sampling at the west property boundary indicated some trace concentrations of VOC's. 61 VOC's were found to be below the detection limit. Detectable levels of three specific VOC's were found. They include 0.014 ppm acetone, 0.00067 ppm dichlorodifluoromethane, and 0.00078 ppm tetrachloroethane.

Short term point source sampling at the process exhaust effluent indicated some low concentrations of VOC's. 51 VOC's were found to be below the detection limit. Detectable levels of 13 specific VOC's were found. They include 0.083 ppm butanone (MEK), 0.380 ppm acetone, 0.300 ppm benzene, 0.010 carbon disulfide, 0.031 ppm chloromethane, 0.011 ppm dichlorodifluoromethane, 0.064 ethyl benzene, 0.030 ppm heptane, 0.033 ppm hexane, 0.014 ppm o-xylene, 0.520 ppm propene, 0.300 ppm tetrahydrofuran, and 0.160 ppm toluene.

The specific findings are found in table 1 and 2. Laboratory analysis is attached.

Summary

AEI performed the air quality survey of the bioreactor system. The survey was conducted by Mr. William Martin, Certified Industrial Hygienist. Laboratory analysis was performed by certified laboratories.

The bioreactor systems was operating normally during testing. Wind conditions throughout the sampling period were variable.

Employee VOC exposures were found to be below detection limits. Airborne exposures were found to meet OSHA applicable exposure limits.

Point source sampling at the west property boundary indicated trace concentrations of three VOC's. They include 0.014 ppm acetone, 0.00067 ppm dichlorodifluoromethane, and 0.00078 ppm tetrachloroethane. All other VOC's were found to be below detection limits. No ambient air quality regulations exist for these VOC's. However, for reference, OSHA establishes employee exposure limits. The OSHA exposure limits for acetone is 1000 ppm, dichlorodifluoromethane is 1000 ppm, and tetrachloroethane is 5 ppm. The measured levels are 6,400 to 1,492,500 times lower than the OSHA exposure limits as shown in table 2.

Point source sampling at the process exhaust effluent indicated low concentrations of VOC's. As stated previously, no ambient air quality regulations exist for these VOC's. For reference, the exposure and detection limits of the 64 VOC's listed chemicals were found to be below the OSHA exposure limits.

Based upon the results of this air quality survey and current operating conditions, VOC emissions do not present an employee or public health hazard.

Please feel free to call me at 791-9029 ext 101. Thank you for the opportunity to work for you and the city of Tucson.

Sincerely,

William F. Martin, Certified Industrial Hygienist

Attachments: Table 1- Long Term Sampling Results
Table 2- Short Term Sampling Results
Figure 1- Sample Location Map
Figure 2- Compost Canister Schematic
Laboratory Analysis

ACT ENVIRONMENTAL INCORPORATED
7592 N. La Cholla Blvd. • Tucson, Arizona 85741 • www.actenv.com • (520) 791-9029 fax (520) 791-9062

Table 1 Long Term Sampling Results

Table 1 Long Term Sampling Results Sample ID	Date	Sample Type/Area/Task/ Employee	Sample Period (Minutes)	Chemical	Result	Reference OSHA Exposure Limits
28114-1-8-11	08/11/08	Employee Breathing Zone TWA, normal routine work activities during operation of the bio-reactor, Mr. David Cool, onsite project manager for Innova	414	30 VOCs	non-detectable	all results are below the detection limit and applicable OSHA PEL
28114-2-8-11	08/11/08	Area near the compressor fan, 4' above the ground, normal routine work activities during operation of the bio-reactor	410	30 VOCs	non-detectable	all results are below the detection limit and the applicable OSHA PEL
28114-3-8-11	08/11/08	Area, at the west property boundary, 4' above the ground, normal routine work activities during operation of the bio-reactor	385	30 VOCs	non-detectable	all results are below the detection limit and the applicable OSHA PEL

Table 2 Short Term Sampling Results

Table 2 Short Term Sampling Results Sample ID	Date	Sample Type/Area/Task/ Employee	Sample Period (Minutes)	Chemical	Result	Reference OSHA Exposure Limits
28114-4-8-11	08/11/08	Area, at the west property boundary, 4' above the ground, normal routine work activities during operation of the bio-reactor	2	64 VOCs	0.014 ppm acetone, 0.00067 ppm dichlorodifluoromethane, 0.00078 ppm tetrachloroethane all others are below the detection limit	1000 ppm acetone 1000 ppm dichlorodifluoromethane 5 ppm tetrachloroethane all others are below the detection limit and applicable OSHA PEL
28114-5-8-11	08/11/08	Area collected at the effluent exhaust of compost canister 8	2	64 VOCs	0.083 ppm butanone (MEK) 0.380 ppm acetone 0.300 ppm benzene 0.010 carbon disulfide 0.031 ppm chloromethane 0.011 ppm dichlorodifluoromethane 0.064 ethyl benzene 0.030 ppm heptane 0.033 ppm hexane 0.014 ppm o-xylene 0.520 ppm propene 0.300 ppm tetrahydrofuran 0.160 ppm toluene. all others are below the detection limit	200 pm butanone (MEK) 1000 ppm acetone 1.0 ppm benzene 20 ppm carbon disulfide 100 ppm chloromethane 1000 ppm dichlorodifluoromethane 100 ethyl benzene 500 ppm heptane 500 ppm hexane 100 ppm o-xylene No std propene 200 ppm tetrahydrofuran 200 ppm toluene all others are below the detection limit and applicable OSHA PEL

Figure 1- Sample Location Map

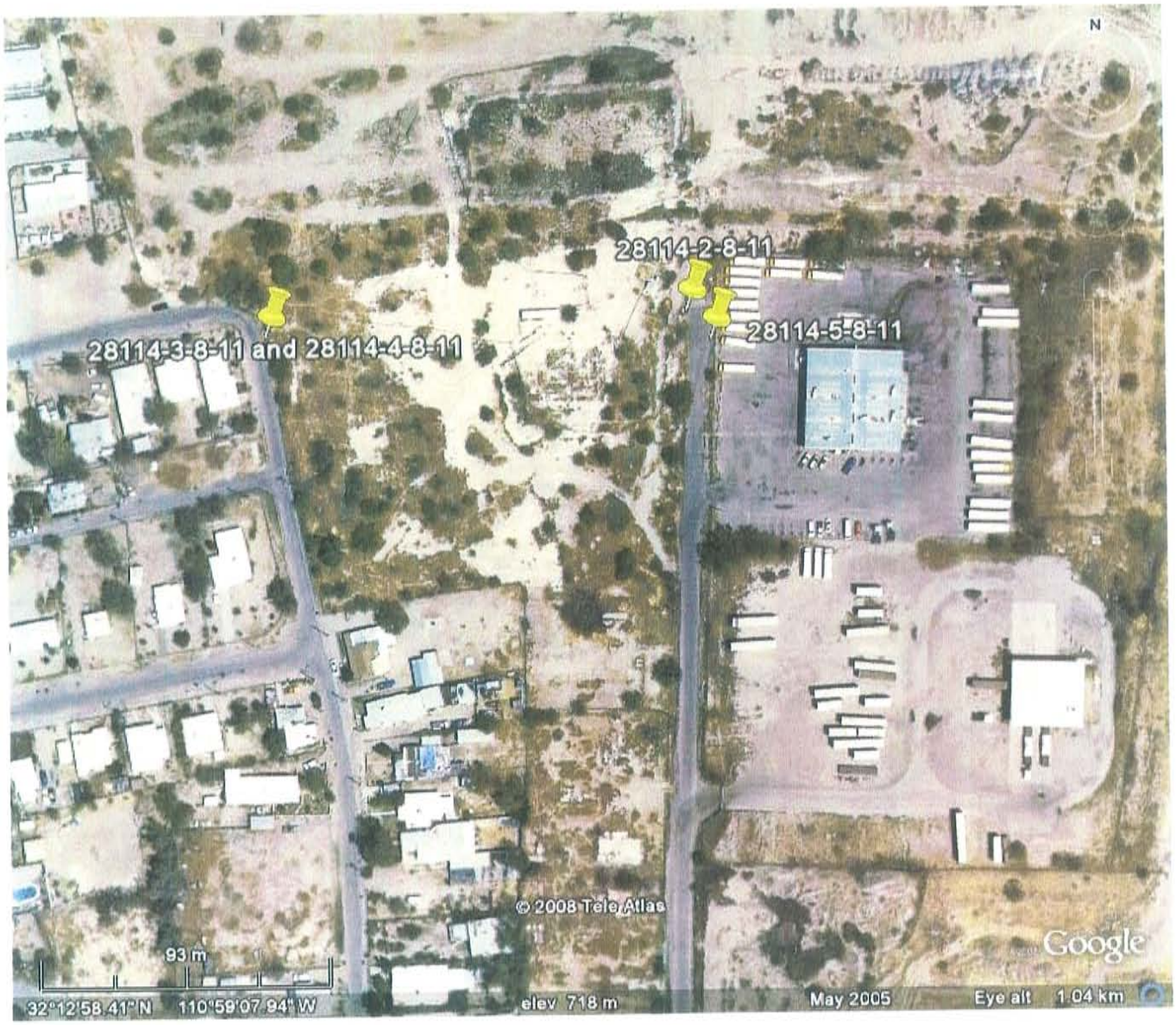
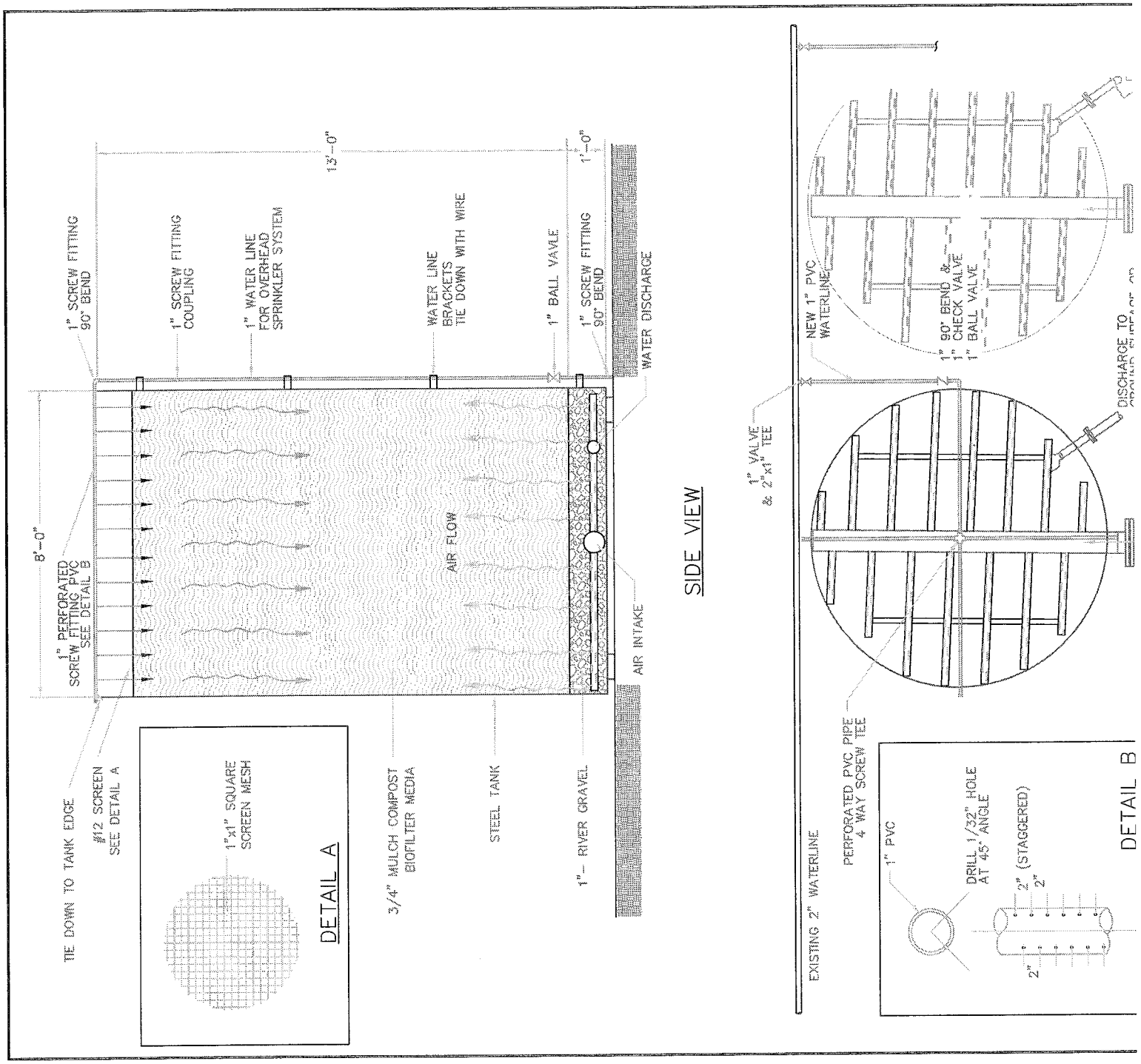


Figure 2- Compost Canister Schematic



DATA CHEM LABORATORIES, INC.

ANALYTICAL REPORT

Report Date: August 18, 2008

Bill Martin
ACT Environmental Incorporated
7592 N. LaCholla Blvd.
Tucson, AZ 85741

Phone: (520) 791-9029
Fax: (520) 791-9062
E-mail: bfmartin@actenv.com

Client Project ID: **ACT 081308**
DCL Workorder: **8226011**
DCL Project Manager: Rand Potter

Analytical Results

Sample ID: 28114-1-8-11 | Media: 3M 3500 ORGANIC POVM | Collected: 8/11/2008
Lab ID: 8226011001 | Sampling Location: City of Tucson | Received: 8/13/2008

Method: Solvent Panel Scan | Sampling Parameter: Exposure 414 Minutes | Analyzed: 8/15/2008

Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Methyl ethyl ketone	<10	<0.67	<0.23	10
n-Hexane	<1.0	<0.075	<0.021	1.0
Tetrahydrofuran	<1.0	<0.065	<0.022	1.0
Chloroform	<1.0	<0.072	<0.015	1.0
1,1,1-Trichloroethane	<1.0	<0.078	<0.014	1.0
1,2-Dichloroethane	<1.0	<0.073	<0.018	1.0
Benzene	<1.0	<0.068	<0.021	1.0
n-Butyl alcohol	<10	<0.70	<0.23	10
Cyclohexane	<1.0	<0.075	<0.022	1.0
Cyclohexene	<1.0	<0.075	<0.022	1.0
2-Pentanone	<1.0	<0.073	<0.021	1.0
Trichloroethene	<1.0	<0.078	<0.014	1.0
n-Propyl acetate	<1.0	<0.080	<0.019	1.0
Methyl isobutyl ketone	<1.0	<0.081	<0.020	1.0
Toluene	<1.0	<0.077	<0.020	1.0
1,1,2-Trichloroethane	<1.0	<0.081	<0.015	1.0
n-Octane	<1.0	<0.091	<0.019	1.0
Tetrachloroethene	<1.0	<0.085	<0.013	1.0
n-Butyl acetate	<1.0	<0.076	<0.016	1.0
Chlorobenzene	<1.0	<0.082	<0.018	1.0
Ethyl benzene	<1.0	<0.088	<0.020	1.0
Xylene	<3.0	<0.27	<0.061	3.0
Styrene	<1.0	<0.084	<0.020	1.0
2-Ethoxyethanol acetate	<1.0	<0.091	<0.017	1.0
Cumene	<1.0	<0.099	<0.020	1.0
Methylstyrene	<1.0	<0.097	<0.020	1.0
m-Dichlorobenzene	<1.0	<0.087	<0.014	1.0
p-Dichlorobenzene	<1.0	<0.087	<0.014	1.0
o-Dichlorobenzene	<1.0	<0.087	<0.014	1.0

DATA CHEM LABORATORIES, INC.

ANALYTICAL REPORT

Client Project ID: **ACT 081308**
DCL Workorder: **8226011**
DCL Project Manager: Rand Potter

Analytical Results

Sample ID: 28114-1-8-11 | Media: 3M 3500 ORGANIC POVM | Collected: 8/11/2008
Lab ID: 8226011001 | Sampling Location: City of Tucson | Received: 8/13/2008
Method: Solvent Panel Scan | Sampling Parameter: Exposure 414 Minutes | Analyzed: 8/15/2008

Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Naphthalene	<1.0	<0.098	<0.019	1.0

Sample ID: 28114-2-8-11 | Media: 3M 3500 ORGANIC POVM | Collected: 8/11/2008
Lab ID: 8226011002 | Sampling Location: City of Tucson | Received: 8/13/2008
Method: Solvent Panel Scan | Sampling Parameter: Exposure 410 Minutes | Analyzed: 8/15/2008

Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Methyl ethyl ketone	<10	<0.67	<0.23	10
n-Hexane	<1.0	<0.076	<0.022	1.0
Tetrahydrofuran	<1.0	<0.066	<0.022	1.0
Chloroform	<1.0	<0.073	<0.015	1.0
1,1,1-Trichloroethane	<1.0	<0.079	<0.014	1.0
1,2-Dichloroethane	<1.0	<0.073	<0.018	1.0
Benzene	<1.0	<0.069	<0.022	1.0
n-Butyl alcohol	<10	<0.71	<0.23	10
Cyclohexane	<1.0	<0.075	<0.022	1.0
Cyclohexene	<1.0	<0.076	<0.022	1.0
2-Pentanone	<1.0	<0.074	<0.021	1.0
Trichloroethene	<1.0	<0.078	<0.015	1.0
n-Propyl acetate	<1.0	<0.081	<0.019	1.0
Methyl isobutyl ketone	<1.0	<0.081	<0.020	1.0
Toluene	<1.0	<0.078	<0.021	1.0
1,1,2-Trichloroethane	<1.0	<0.082	<0.015	1.0
n-Octane	<1.0	<0.092	<0.020	1.0
Tetrachloroethene	<1.0	<0.086	<0.013	1.0
n-Butyl acetate	<1.0	<0.077	<0.016	1.0
Chlorobenzene	<1.0	<0.083	<0.018	1.0
Ethyl benzene	<1.0	<0.089	<0.021	1.0
Xylene	<3.0	<0.27	<0.062	3.0
Styrene	<1.0	<0.084	<0.020	1.0
2-Ethoxyethanol acetate	<1.0	<0.092	<0.017	1.0
Cumene	<1.0	<0.10	<0.020	1.0
Methylstyrene	<1.0	<0.098	<0.020	1.0
m-Dichlorobenzene	<1.0	<0.088	<0.015	1.0
p-Dichlorobenzene	<1.0	<0.088	<0.015	1.0
o-Dichlorobenzene	<1.0	<0.088	<0.015	1.0

DATA CHEM LABORATORIES, INC.

ANALYTICAL REPORT

Client Project ID: **ACT 081308**
DCL Workorder: **8226011**
DCL Project Manager: Rand Potter

Analytical Results

Sample ID: 28114-2-8-11 | Media: 3M 3500 ORGANIC POVM | Collected: 8/11/2008
Lab ID: 8226011002 | Sampling Location: City of Tucson | Received: 8/13/2008
Method: Solvent Panel Scan | Sampling Parameter: Exposure 410 Minutes | Analyzed: 8/15/2008

Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Naphthalene	<1.0	<0.099	<0.019	1.0

Sample ID: 28114-3-8-11 | Media: 3M 3500 ORGANIC POVM | Collected: 8/11/2008
Lab ID: 8226011003 | Sampling Location: City of Tucson | Received: 8/13/2008
Method: Solvent Panel Scan | Sampling Parameter: Exposure 385 Minutes | Analyzed: 8/15/2008

Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Methyl ethyl ketone	<10	<0.72	<0.24	10
n-Hexane	<1.0	<0.081	<0.023	1.0
Tetrahydrofuran	<1.0	<0.070	<0.024	1.0
Chloroform	<1.0	<0.078	<0.016	1.0
1,1,1-Trichloroethane	<1.0	<0.084	<0.015	1.0
1,2-Dichloroethane	<1.0	<0.078	<0.019	1.0
Benzene	<1.0	<0.073	<0.023	1.0
n-Butyl alcohol	<10	<0.76	<0.25	10
Cyclohexane	<1.0	<0.080	<0.023	1.0
Cyclohexene	<1.0	<0.080	<0.024	1.0
2-Pentanone	<1.0	<0.079	<0.022	1.0
Trichloroethene	<1.0	<0.084	<0.016	1.0
n-Propyl acetate	<1.0	<0.086	<0.021	1.0
Methyl isobutyl ketone	<1.0	<0.087	<0.021	1.0
Toluene	<1.0	<0.083	<0.022	1.0
1,1,2-Trichloroethane	<1.0	<0.087	<0.016	1.0
n-Octane	<1.0	<0.098	<0.021	1.0
Tetrachloroethene	<1.0	<0.092	<0.014	1.0
n-Butyl acetate	<1.0	<0.082	<0.017	1.0
Chlorobenzene	<1.0	<0.089	<0.019	1.0
Ethyl benzene	<1.0	<0.095	<0.022	1.0
Xylene	<3.0	<0.29	<0.066	3.0
Styrene	<1.0	<0.090	<0.021	1.0
2-Ethoxyethanol acetate	<1.0	<0.098	<0.018	1.0
Cumene	<1.0	<0.11	<0.022	1.0
Methylstyrene	<1.0	<0.10	<0.022	1.0
m-Dichlorobenzene	<1.0	<0.093	<0.016	1.0
p-Dichlorobenzene	<1.0	<0.093	<0.016	1.0
o-Dichlorobenzene	<1.0	<0.093	<0.016	1.0

DATA CHEM LABORATORIES, INC.

ANALYTICAL REPORT

Client Project ID: **ACT 081308**
DCL Workorder: **8226011**
DCL Project Manager: Rand Potter

Analytical Results

Sample ID: 28114-3-8-11	Media: 3M 3500 ORGANIC POVM	Collected: 8/11/2008
Lab ID: 8226011003	Sampling Location: City of Tucson	Received: 8/13/2008
Method: Solvent Panel Scan	Sampling Parameter: Exposure 385 Minutes	Analyzed: 8/15/2008

Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Naphthalene	<1.0	<0.11	<0.020	1.0

Report Authorization

Method: Solvent Panel Scan

Michael R. Newton
Analyst

Brett J. Murphy
Peer Review

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.
LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.
ND = Not Detected, Testing result not detected above the LOD or LOQ.
** No result could be reported, see sample comments for details.
< This testing result is less than the numerical value.
() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of DataChem Laboratories, Inc.

DataChem Laboratories, Inc. is accredited by AIHA for specific fields of testing as documented in its current scope of accreditation (ID#101574) which is available on request by contacting your project manager or view on the internet at http://www.aiha.org. The quality systems implemented in the laboratory apply to all methods performed by DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods, and methods

DataChem Laboratories, Inc. provides professional analytical services for all samples submitted. DataChem Laboratories, Inc. is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

2008-08-13-8226011-01

31/1478/3

DATA M LABORATORIES, INC.

8226011

ANALYTICAL REQUEST FORM

1. ☐ REGULAR Status 8226011

☐ RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY _____
DATE
CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

8/12/08 Purchase Order No. 28114

ny Name ACT Environmental

s 7592 N La Cholla

to Contact Bill Martin

ne (520) 791-9029

ephone (520) 791-9062

ddress bfmartin@actenv.com

ddress (if different from above)

4. Quote No.

DCL Project Manager

5. Sample Collection

Sampling Site City of Tucson

Industrial Process

Date of Collection 8/11/08

Time Collected 7:30 Am → 4:30 pm

Date of Shipment 8/12/08

Chain of Custody No.

6. How did you first learn about DataChem?

ST FOR ANALYSES

ory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	28114-1-8-11	3M 3500	414 min	Solvent pa el	ppm v/v
	28114-2-8-11	"	410 min	DCL SOP	
	28114-3-8-11	"	385 min	GCMS	

Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

ple 2. mg/m³ 3. ppm 4. % 5. µg/m³ 6. _____ (other) Please indicate one or more units in the column entitled Units**

ntamination and/or Chemical Hazards NA

Custody (Optional)

l by _____ Date/Time 8/12/08 11:47 am

Date/Time 8/13/08 0935

l by _____ Date/Time _____

Date/Time _____

'est LeVoy Drive / Salt Lake City, UT 84123 800-356-9135 or 801-266-7700 / FAX: 801-268-9992
DATACHEM LABORATORIES, INC.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

August 26, 2008

LABORATORY REPORT

Client:
ACT Environmental - Tucson
7592 North LaCholla Blvd.
Tucson, AZ 85741
Attn: Bill Martin

Work Order: PRH0678
Project Name: N_TO15
Project Number: 28114
Date Received: 08/12/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: N1: Sample PRH0678-02 required a 20:1 dilution. The PQLs have been calculated accordingly.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Ken Baker

Ken Baker
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

ACT Environmental - Tucson 7592 North LaCholla Blvd. Tucson, AZ 85741 Bill Martin	Work Order: Project: Project Number:	PRH0678 N_TO15 28114		Received: Reported:	08/12/08 08/26/08 15:22

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
28114-4-8-11	PRH0678-01	08/11/08	S/N 1676 1L Canister
28114-5-8-11	PRH0678-02	08/11/08	S/N 0602 1L Canister

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

ACT Environmental - Tucson 7592 North LaCholla Blvd. Tucson, AZ 85741 Bill Martin	Work Order: PRH0678 Project: N_TO15 Project Number: 28114	Received: 08/12/08 Reported: 08/26/08 15:22	

ANALYTICAL REPORT

	ppbv		ug/m3		Data		Date		
	Result	PQL	Result	PQL	Qualifiers	Dilution	Analyzed	Analyst	Method
Volatile Organic Compounds by EPA TO-15									
Sample ID: PRH0678-01 (28114-4-8-11)									**Sampled: 08/11/08 14:00**
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1	8/21/2008	JJ	EPA TO15
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.43	3.43		1	8/21/2008	JJ	EPA TO15
1,1,2-Trichloroethane	<0.50	0.50	<2.73	2.73		1	8/21/2008	JJ	EPA TO15
1,1-Dichloroethane	<0.50	0.50	<2.02	2.02		1	8/21/2008	JJ	EPA TO15
1,1-Dichloroethene	<0.50	0.50	<1.98	1.98		1	8/21/2008	JJ	EPA TO15
1,2,4-Trichlorobenzene	<2.0	2.0	<14.8	14.8		1	8/21/2008	JJ	EPA TO15
1,2,4-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1	8/21/2008	JJ	EPA TO15
1,2-Dibromoethane (EDB)	<0.50	0.50	<3.84	3.84		1	8/21/2008	JJ	EPA TO15
1,2-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1	8/21/2008	JJ	EPA TO15
1,2-Dichloroethane	<0.50	0.50	<2.02	2.02		1	8/21/2008	JJ	EPA TO15
1,2-Dichloropropane	<0.50	0.50	<2.31	2.31		1	8/21/2008	JJ	EPA TO15
1,3,5-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1	8/21/2008	JJ	EPA TO15
1,3-Butadiene	<0.50	0.50	<1.10	1.10		1	8/21/2008	JJ	EPA TO15
1,3-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1	8/21/2008	JJ	EPA TO15
1,4-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1	8/21/2008	JJ	EPA TO15
2,2,4-Trimethylpentane	<0.50	0.50	<2.34	2.34		1	8/21/2008	JJ	EPA TO15
2-Butanone (MEK)	<1.0	1.0	<2.95	2.95		1	8/21/2008	JJ	EPA TO15
2-Hexanone	<1.0	1.0	<4.10	4.10		1	8/21/2008	JJ	EPA TO15
2-Propanol	<2.0	2.0	<4.92	4.92		1	8/21/2008	JJ	EPA TO15
4-Ethyltoluene	<0.50	0.50	<2.46	2.46		1	8/21/2008	JJ	EPA TO15
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.10	4.10		1	8/21/2008	JJ	EPA TO15
Acetone	**14**	**5.0**	**33**	**11.9**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Allyl Chloride	<0.50	0.50	<1.56	1.56		1	8/21/2008	JJ	EPA TO15
Benzene	<0.50	0.50	<1.60	1.60		1	8/21/2008	JJ	EPA TO15
Benzyl Chloride	<2.0	2.0	<10.4	10.4		1	8/21/2008	JJ	EPA TO15
Bromodichloromethane	<0.50	0.50	<3.35	3.35		1	8/21/2008	JJ	EPA TO15
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.19	2.19		1	8/21/2008	JJ	EPA TO15
Bromoform	<0.50	0.50	<5.17	5.17		1	8/21/2008	JJ	EPA TO15
Bromomethane	<0.50	0.50	<1.94	1.94		1	8/21/2008	JJ	EPA TO15
Carbon disulfide	<0.50	0.50	<1.56	1.56		1	8/21/2008	JJ	EPA TO15
Carbon tetrachloride	<0.50	0.50	<3.15	3.15		1	8/21/2008	JJ	EPA TO15
Chlorobenzene	<0.50	0.50	<2.30	2.30		1	8/21/2008	JJ	EPA TO15
Chloroethane	<0.50	0.50	<1.32	1.32		1	8/21/2008	JJ	EPA TO15
Chloroform	<0.50	0.50	<2.44	2.44		1	8/21/2008	JJ	EPA TO15
Chloromethane	<0.50	0.50	<1.03	1.03		1	8/21/2008	JJ	EPA TO15
cis-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1	8/21/2008	JJ	EPA TO15
cis-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1	8/21/2008	JJ	EPA TO15
Cyclohexane	<0.50	0.50	<1.72	1.72		1	8/21/2008	JJ	EPA TO15
Dibromochloromethane	<0.50	0.50	<4.26	4.26		1	8/21/2008	JJ	EPA TO15
Dichlorodifluoromethane	**0.67**	**0.50**	**3.3**	**2.47**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.50	3.50		1	8/21/2008	JJ	EPA TO15
Ethyl Acetate	<0.50	0.50	<1.80	1.80		1	8/21/2008	JJ	EPA TO15
Ethylbenzene	<0.50	0.50	<2.17	2.17		1	8/21/2008	JJ	EPA TO15

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ACT Environmental - Tucson
7592 North LaCholla Blvd.
Tucson, AZ 85741
Bill Martin

Work Order: PRH0678
Project: N_TO15
Project Number: 28114

Received: 08/12/08
Reported: 08/26/08 15:22

Volatile Organic Compounds by EPA TO-15

Sample ID: PRH0678-01 (28114-4-8-11) - cont. **Sampled: 08/11/08 14:00**

	ppbv Result	ppbv PQL	ug/m3 Result	ug/m3 PQL	Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
Freon 113	<0.50	0.50	<3.83	3.83		1	8/21/2008	JJ	EPA TO15
Heptane	<0.50	0.50	<2.05	2.05		1	8/21/2008	JJ	EPA TO15
Hexachlorobutadiene	<1.0	1.0	<10.7	10.7		1	8/21/2008	JJ	EPA TO15
Hexane	<0.50	0.50	<1.76	1.76		1	8/21/2008	JJ	EPA TO15
m,p-Xylenes	<1.0	1.0	<4.34	4.34		1	8/21/2008	JJ	EPA TO15
Methylene Chloride	<0.50	0.50	<1.74	1.74		1	8/21/2008	JJ	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.61	3.61		1	8/21/2008	JJ	EPA TO15
o-Xylene	<0.50	0.50	<2.17	2.17		1	8/21/2008	JJ	EPA TO15
Propene	<0.50	0.50	<0.861	0.861		1	8/21/2008	JJ	EPA TO15
Styrene	<0.50	0.50	<2.13	2.13		1	8/21/2008	JJ	EPA TO15
Tetrachloroethene	**0.78**	**0.50**	**5.3**	**3.39**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Tetrahydrofuran	<2.0	2.0	<5.90	5.90		1	8/21/2008	JJ	EPA TO15
Toluene	<0.50	0.50	<1.88	1.88		1	8/21/2008	JJ	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1	8/21/2008	JJ	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1	8/21/2008	JJ	EPA TO15
Trichloroethene	<0.50	0.50	<2.69	2.69		1	8/21/2008	JJ	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.81	2.81		1	8/21/2008	JJ	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.76	1.76		1	8/21/2008	JJ	EPA TO15
Vinyl chloride	<0.50	0.50	<1.28	1.28		1	8/21/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*108 %*		*Limit 70-130*						

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Tucson, AZ 85741
Bill Martin

Work Order: PRH0678
Project: N_TO15
Project Number: 28114

Received: 08/12/08
Reported: 08/26/08 15:22

Volatile Organic Compounds by EPA TO-15

Sample ID: PRH0678-02 (28114-5-8-11) — **Sampled: 08/11/08 14:00**

	ppbv Result	ppbv PQL	ug/m3 Result	ug/m3 PQL	Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
1,1,1-Trichloroethane	<10	10	<54.6	54.6		1	8/21/2008	JJ	EPA TO15
1,1,2,2-Tetrachloroethane	<10	10	<68.7	68.7		1	8/21/2008	JJ	EPA TO15
1,1,2-Trichloroethane	<10	10	<54.6	54.6		1	8/21/2008	JJ	EPA TO15
1,1-Dichloroethane	<10	10	<40.5	40.5		1	8/21/2008	JJ	EPA TO15
1,1-Dichloroethene	<10	10	<39.6	39.6		1	8/21/2008	JJ	EPA TO15
1,2,4-Trichlorobenzene	<40	40	<297	297		1	8/21/2008	JJ	EPA TO15
1,2,4-Trimethylbenzene	<10	10	<49.2	49.2		1	8/21/2008	JJ	EPA TO15
1,2-Dibromoethane (EDB)	<10	10	<76.8	76.8		1	8/21/2008	JJ	EPA TO15
1,2-Dichlorobenzene	<10	10	<60.1	60.1		1	8/21/2008	JJ	EPA TO15
1,2-Dichloroethane	<10	10	<40.5	40.5		1	8/21/2008	JJ	EPA TO15
1,2-Dichloropropane	<10	10	<46.2	46.2		1	8/21/2008	JJ	EPA TO15
1,3,5-Trimethylbenzene	<10	10	<49.2	49.2		1	8/21/2008	JJ	EPA TO15
1,3-Butadiene	<10	10	<22.1	22.1		1	8/21/2008	JJ	EPA TO15
1,3-Dichlorobenzene	<10	10	<60.1	60.1		1	8/21/2008	JJ	EPA TO15
1,4-Dichlorobenzene	<10	10	<60.1	60.1		1	8/21/2008	JJ	EPA TO15
2,2,4-Trimethylpentane	<10	10	<46.7	46.7		1	8/21/2008	JJ	EPA TO15
2-Butanone (MEK)	**83**	**20**	**250**	**59.0**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
2-Hexanone	<20	20	<81.9	81.9		1	8/21/2008	JJ	EPA TO15
2-Propanol	<40	40	<98.3	98.3		1	8/21/2008	JJ	EPA TO15
4-Ethyltoluene	<10	10	<49.2	49.2		1	8/21/2008	JJ	EPA TO15
4-Methyl-2-pentanone (MIBK)	<20	20	<81.9	81.9		1	8/21/2008	JJ	EPA TO15
Acetone	**380**	**100**	**900**	**238**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Allyl Chloride	<10	10	<31.3	31.3		1	8/21/2008	JJ	EPA TO15
Benzene	**300**	**10**	**960**	**31.9**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Benzyl Chloride	<40	40	<207	207		1	8/21/2008	JJ	EPA TO15
Bromodichloromethane	<10	10	<67.0	67.0		1	8/21/2008	JJ	EPA TO15
Bromoethene(Vinyl Bromide)	<10	10	<43.8	43.8		1	8/21/2008	JJ	EPA TO15
Bromoform	<10	10	<103	103		1	8/21/2008	JJ	EPA TO15
Bromomethane	<10	10	<38.8	38.8		1	8/21/2008	JJ	EPA TO15
Carbon disulfide	**10**	**10**	**31**	**31.1**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Carbon tetrachloride	<10	10	<62.9	62.9		1	8/21/2008	JJ	EPA TO15
Chlorobenzene	<10	10	<46.0	46.0		1	8/21/2008	JJ	EPA TO15
Chloroethane	<10	10	<26.4	26.4		1	8/21/2008	JJ	EPA TO15
Chloroform	<10	10	<48.8	48.8		1	8/21/2008	JJ	EPA TO15
Chloromethane	**31**	**10**	**64**	**20.6**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
cis-1,2-Dichloroethene	<10	10	<39.6	39.6		1	8/21/2008	JJ	EPA TO15
cis-1,3-Dichloropropene	<10	10	<45.4	45.4		1	8/21/2008	JJ	EPA TO15
Cyclohexane	<10	10	<34.4	34.4		1	8/21/2008	JJ	EPA TO15
Dibromochloromethane	<10	10	<85.2	85.2		1	8/21/2008	JJ	EPA TO15
Dichlorodifluoromethane	**11**	**10**	**54**	**49.5**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Dichlorotetrafluoroethane(F-114)	<10	10	<69.9	69.9		1	8/21/2008	JJ	EPA TO15
Ethyl Acetate	<10	10	<36.0	36.0		1	8/21/2008	JJ	EPA TO15
Ethylbenzene	**64**	**10**	**280**	**43.4**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Freon 113	<10	10	<76.6	76.6		1	8/21/2008	JJ	EPA TO15
Heptane	**30**	**10**	**120**	**41.0**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Hexachlorobutadiene	<20	20	<213	213		1	8/21/2008	JJ	EPA TO15

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ACT Environmental - Tucson
7592 North LaCholla Blvd.
Tucson, AZ 85741
Bill Martin

Work Order: PRH0678
Project: N_TO15
Project Number: 28114

Received: 08/12/08
Reported: 08/26/08 15:22

Volatile Organic Compounds by EPA TO-15

Sample ID: PRH0678-02 (28114-5-8-11) - cont. **Sampled: 08/11/08 14:00**

	ppbv Result	ppbv PQL	ug/m3 Result	ug/m3 PQL	Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
Hexane	**33**	**10**	**120**	**35.2**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
m,p-Xylenes	<20	20	<86.8	86.8		1	8/21/2008	JJ	EPA TO15
Methylene Chloride	<10	10	<34.7	34.7		1	8/21/2008	JJ	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<20	20	<72.1	72.1		1	8/21/2008	JJ	EPA TO15
o-Xylene	**14**	**10**	**61**	**43.4**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Propene	**520**	**10**	**900**	**17.2**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Styrene	<10	10	<42.6	42.6		1	8/21/2008	JJ	EPA TO15
Tetrachloroethene	<10	10	<67.8	67.8		1	8/21/2008	JJ	EPA TO15
Tetrahydrofuran	**300**	**40**	**890**	**118**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
Toluene	**160**	**10**	**600**	**37.7**		**1**	**8/21/2008**	**JJ**	**EPA TO15**
trans-1,2-Dichloroethene	<10	10	<39.6	39.6		1	8/21/2008	JJ	EPA TO15
trans-1,3-Dichloropropene	<10	10	<45.4	45.4		1	8/21/2008	JJ	EPA TO15
Trichloroethene	<10	10	<53.7	53.7		1	8/21/2008	JJ	EPA TO15
Trichlorofluoromethane	<10	10	<56.2	56.2		1	8/21/2008	JJ	EPA TO15
Vinyl Acetate	<10	10	<35.2	35.2		1	8/21/2008	JJ	EPA TO15
Vinyl chloride	<10	10	<25.6	25.6		1	8/21/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*99 %*		*Limit 70-130*						

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ACT Environmental - Tucson	Work Order:	PRH0678	Received:	08/12/08
7592 North LaCholla Blvd.			Reported:	08/26/08 15:22
Tucson, AZ 85741	Project:	N_TO15		
Bill Martin	Project Number:	28114		

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
P8H2524-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,1,2-Trichloroethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,1-Dichloroethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,1-Dichloroethene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,2-Dibromoethane (EDB)	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,2-Dichlorobenzene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,2-Dichloroethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,2-Dichloropropane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,3-Butadiene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,3-Dichlorobenzene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
1,4-Dichlorobenzene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
2-Butanone (MEK)	<1.0	1.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
2-Hexanone	<1.0	1.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
2-Propanol	<2.0	2.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
4-Ethyltoluene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Acetone	<5.0	5.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Allyl Chloride	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Benzene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Benzyl Chloride	<2.0	2.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Bromodichloromethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Bromoform	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Bromomethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Carbon disulfide	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Carbon tetrachloride	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Chlorobenzene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Chloroethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Chloroform	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Chloromethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Cyclohexane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Dibromochloromethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Dichlorodifluoromethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008

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ACT Environmental - Tucson 7592 North LaCholla Blvd. Tucson, AZ 85741 Bill Martin	Work Order: PRH0678 Project: N_TO15 Project Number: 28114	Received: 08/12/08 Reported: 08/26/08 15:22	

Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
P8H2524-BLK1							
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Ethyl Acetate	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Ethylbenzene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Freon 113	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Heptane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Hexachlorobutadiene	<1.0	1.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Hexane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
m,p-Xylenes	<1.0	1.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Methylene Chloride	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
o-Xylene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Propene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Styrene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Tetrachloroethene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Tetrahydrofuran	<2.0	2.0		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Toluene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Trichloroethene	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Trichlorofluoromethane	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Vinyl Acetate	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Vinyl chloride	<0.50	0.50		ppbv	P8H2524	P8H2524-BLK1	08-21-2008
Surrogate: 4-Bromofluorobenzene	102%				P8H2524	P8H2524-BLK1	08-21-2008

LCS

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8H2524-BS1								
1,1,1-Trichloroethane	9.79	0.50		ppbv	98%	65 - 135	P8H2524	08-21-2008
1,1,2,2-Tetrachloroethane	8.25	0.50		ppbv	82%	65 - 135	P8H2524	08-21-2008
1,1,2-Trichloroethane	9.39	0.50		ppbv	94%	65 - 135	P8H2524	08-21-2008
1,1-Dichloroethane	9.82	0.50		ppbv	98%	65 - 135	P8H2524	08-21-2008
1,1-Dichloroethene	10.3	0.50		ppbv	103%	65 - 135	P8H2524	08-21-2008
1,2,4-Trichlorobenzene	10.1	2.00		ppbv	101%	65 - 135	P8H2524	08-21-2008
1,2,4-Trimethylbenzene	10.9	0.50		ppbv	109%	65 - 135	P8H2524	08-21-2008
1,2-Dibromoethane (EDB)	10.0	0.50		ppbv	100%	65 - 135	P8H2524	08-21-2008
1,2-Dichlorobenzene	9.80	0.50		ppbv	98%	65 - 135	P8H2524	08-21-2008
1,2-Dichloroethane	10.2	0.50		ppbv	102%	65 - 135	P8H2524	08-21-2008
1,2-Dichloropropane	9.70	0.50		ppbv	97%	65 - 135	P8H2524	08-21-2008
1,3,5-Trimethylbenzene	10.6	0.50		ppbv	106%	65 - 135	P8H2524	08-21-2008

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ACT Environmental - Tucson 7592 North LaCholla Blvd. Tucson, AZ 85741 Bill Martin	Work Order: PRH0678 Project: N_TO15 Project Number: 28114	Received: 08/12/08 Reported: 08/26/08 15:22	

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8H2524-BS1								
1,3-Butadiene	10.7	0.50		ppbv	107%	65 - 135	P8H2524	08-21-2008
1,3-Dichlorobenzene	9.57	0.50		ppbv	96%	65 - 135	P8H2524	08-21-2008
1,4-Dichlorobenzene	10.1	0.50		ppbv	101%	65 - 135	P8H2524	08-21-2008
2,2,4-Trimethylpentane	10.2	0.50		ppbv	102%	65 - 135	P8H2524	08-21-2008
2-Butanone (MEK)	11.4	1.00		ppbv	114%	65 - 135	P8H2524	08-21-2008
2-Hexanone	9.28	1.00		ppbv	93%	65 - 135	P8H2524	08-21-2008
2-Propanol	7.80	2.00		ppbv	78%	65 - 135	P8H2524	08-21-2008
4-Ethyltoluene	11.3	0.50		ppbv	113%	65 - 135	P8H2524	08-21-2008
4-Methyl-2-pentanone (MIBK)	10.8	1.00		ppbv	108%	65 - 135	P8H2524	08-21-2008
Acetone	10.4	5.00		ppbv	104%	65 - 135	P8H2524	08-21-2008
Allyl Chloride	10.6	0.50		ppbv	106%	65 - 135	P8H2524	08-21-2008
Benzene	10.4	0.50		ppbv	104%	65 - 135	P8H2524	08-21-2008
Benzyl Chloride	11.2	2.00		ppbv	112%	65 - 135	P8H2524	08-21-2008
Bromodichloromethane	9.85	0.50		ppbv	98%	65 - 135	P8H2524	08-21-2008
Bromoethene(Vinyl Bromide)	9.79	0.50		ppbv	98%	65 - 135	P8H2524	08-21-2008
Bromoform	9.41	0.50		ppbv	94%	65 - 135	P8H2524	08-21-2008
Bromomethane	9.27	0.50		ppbv	93%	65 - 135	P8H2524	08-21-2008
Carbon disulfide	9.39	0.50		ppbv	94%	65 - 135	P8H2524	08-21-2008
Carbon tetrachloride	10.1	0.50		ppbv	101%	65 - 135	P8H2524	08-21-2008
Chlorobenzene	9.21	0.50		ppbv	92%	65 - 135	P8H2524	08-21-2008
Chloroethane	8.93	0.50		ppbv	89%	65 - 135	P8H2524	08-21-2008
Chloroform	9.21	0.50		ppbv	92%	65 - 135	P8H2524	08-21-2008
Chloromethane	9.17	0.50		ppbv	92%	65 - 135	P8H2524	08-21-2008
cis-1,2-Dichloroethene	10.5	0.50		ppbv	105%	65 - 135	P8H2524	08-21-2008
cis-1,3-Dichloropropene	11.5	0.50		ppbv	115%	65 - 135	P8H2524	08-21-2008
Cyclohexane	11.2	0.50		ppbv	112%	65 - 135	P8H2524	08-21-2008
Dibromochloromethane	9.51	0.50		ppbv	95%	65 - 135	P8H2524	08-21-2008
Dichlorodifluoromethane	9.71	0.50		ppbv	97%	65 - 135	P8H2524	08-21-2008
Dichlorotetrafluoroethane(F-114)	9.46	0.50		ppbv	95%	65 - 135	P8H2524	08-21-2008
Ethyl Acetate	11.2	0.50		ppbv	112%	65 - 135	P8H2524	08-21-2008
Ethylbenzene	11.3	0.50		ppbv	113%	65 - 135	P8H2524	08-21-2008
Freon 113	9.36	0.50		ppbv	94%	65 - 135	P8H2524	08-21-2008
Heptane	10.5	0.50		ppbv	105%	65 - 135	P8H2524	08-21-2008
Hexachlorobutadiene	12.4	1.00		ppbv	124%	65 - 135	P8H2524	08-21-2008
Hexane	11.8	0.50		ppbv	118%	65 - 135	P8H2524	08-21-2008
m,p-Xylenes	22.4	1.00		ppbv	112%	65 - 135	P8H2524	08-21-2008
Methylene Chloride	9.17	0.50		ppbv	92%	65 - 135	P8H2524	08-21-2008
Methyl-tert-butyl Ether (MTBE)	12.3	1.00		ppbv	123%	65 - 135	P8H2524	08-21-2008
o-Xylene	10.9	0.50		ppbv	109%	65 - 135	P8H2524	08-21-2008

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LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8H2524-BS1								
Propene	9.19	0.50		ppbv	92%	65 - 135	P8H2524	08-21-2008
Styrene	11.1	0.50		ppbv	111%	65 - 135	P8H2524	08-21-2008
Tetrachloroethene	10.2	0.50		ppbv	102%	65 - 135	P8H2524	08-21-2008
Tetrahydrofuran	9.45	2.00		ppbv	94%	65 - 135	P8H2524	08-21-2008
Toluene	11.4	0.50		ppbv	114%	65 - 135	P8H2524	08-21-2008
trans-1,2-Dichloroethene	9.96	0.50		ppbv	100%	65 - 135	P8H2524	08-21-2008
trans-1,3-Dichloropropene	11.5	0.50		ppbv	115%	65 - 135	P8H2524	08-21-2008
Trichloroethene	9.77	0.50		ppbv	98%	65 - 135	P8H2524	08-21-2008
Trichlorofluoromethane	9.88	0.50		ppbv	99%	65 - 135	P8H2524	08-21-2008
Vinyl Acetate	12.3	0.50		ppbv	123%	65 - 135	P8H2524	08-21-2008
Vinyl chloride	9.62	0.50		ppbv	96%	65 - 135	P8H2524	08-21-2008
Surrogate: 4-Bromofluorobenzene	10.3	0.50			103%	70 - 130	P8H2524	08-21-2008

LCS Dup

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
P8H2524-BSD1												
1,1,1-Trichloroethane	9.67	0.50		ppbv	10.0	97%	65 - 135	1	25	P8H2524		08-21-2008
1,1,2,2-Tetrachloroethane	8.33	0.50		ppbv	10.0	83%	65 - 135	1	25	P8H2524		08-21-2008
1,1,2-Trichloroethane	9.08	0.50		ppbv	10.0	91%	65 - 135	3	25	P8H2524		08-21-2008
1,1-Dichloroethane	9.88	0.50		ppbv	10.0	99%	65 - 135	0.6	25	P8H2524		08-21-2008
1,1-Dichloroethene	10.3	0.50		ppbv	10.0	103%	65 - 135	0.1	25	P8H2524		08-21-2008
1,2,4-Trichlorobenzene	11.1	2.00		ppbv	10.0	111%	65 - 135	9	25	P8H2524		08-21-2008
1,2,4-Trimethylbenzene	10.7	0.50		ppbv	10.0	107%	65 - 135	2	25	P8H2524		08-21-2008
1,2-Dibromoethane (EDB)	9.64	0.50		ppbv	10.0	96%	65 - 135	4	25	P8H2524		08-21-2008
1,2-Dichlorobenzene	9.83	0.50		ppbv	10.0	98%	65 - 135	0.3	25	P8H2524		08-21-2008
1,2-Dichloroethane	10.1	0.50		ppbv	10.0	101%	65 - 135	2	25	P8H2524		08-21-2008
1,2-Dichloropropane	9.52	0.50		ppbv	10.0	95%	65 - 135	2	25	P8H2524		08-21-2008
1,3,5-Trimethylbenzene	10.2	0.50		ppbv	10.0	102%	65 - 135	4	25	P8H2524		08-21-2008
1,3-Butadiene	11.0	0.50		ppbv	10.0	110%	65 - 135	3	25	P8H2524		08-21-2008
1,3-Dichlorobenzene	9.38	0.50		ppbv	10.0	94%	65 - 135	2	25	P8H2524		08-21-2008
1,4-Dichlorobenzene	9.91	0.50		ppbv	10.0	99%	65 - 135	2	25	P8H2524		08-21-2008
2,2,4-Trimethylpentane	10.0	0.50		ppbv	10.0	100%	65 - 135	2	25	P8H2524		08-21-2008
2-Butanone (MEK)	11.5	1.00		ppbv	10.0	115%	65 - 135	0.7	25	P8H2524		08-21-2008
2-Hexanone	9.48	1.00		ppbv	10.0	95%	65 - 135	2	25	P8H2524		08-21-2008
2-Propanol	8.71	2.00		ppbv	10.0	87%	65 - 135	11	25	P8H2524		08-21-2008
4-Ethyltoluene	11.1	0.50		ppbv	10.0	111%	65 - 135	2	25	P8H2524		08-21-2008
4-Methyl-2-pentanone (MIBK)	10.9	1.00		ppbv	10.0	109%	65 - 135	0.4	25	P8H2524		08-21-2008
Acetone	10.8	5.00		ppbv	10.0	108%	65 - 135	4	25	P8H2524		08-21-2008

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Tucson, AZ 85741
Bill Martin

Work Order: PRH0678
Project: N_TO15
Project Number: 28114

Received: 08/12/08
Reported: 08/26/08 15:22

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
P8H2524-BSD1												
Allyl Chloride	10.9	0.50		ppbv	10.0	109%	65 - 135	2	25	P8H2524		08-21-2008
Benzene	10.4	0.50		ppbv	10.0	104%	65 - 135	0.1	25	P8H2524		08-21-2008
Benzyl Chloride	11.6	2.00		ppbv	10.0	116%	65 - 135	3	25	P8H2524		08-21-2008
Bromodichloromethane	9.66	0.50		ppbv	10.0	97%	65 - 135	2	25	P8H2524		08-21-2008
Bromoethene(Vinyl Bromide)	9.96	0.50		ppbv	10.0	100%	65 - 135	2	25	P8H2524		08-21-2008
Bromoform	9.09	0.50		ppbv	10.0	91%	65 - 135	3	25	P8H2524		08-21-2008
Bromomethane	9.62	0.50		ppbv	10.0	96%	65 - 135	4	25	P8H2524		08-21-2008
Carbon disulfide	9.58	0.50		ppbv	10.0	96%	65 - 135	2	25	P8H2524		08-21-2008
Carbon tetrachloride	9.85	0.50		ppbv	10.0	98%	65 - 135	3	25	P8H2524		08-21-2008
Chlorobenzene	8.88	0.50		ppbv	10.0	89%	65 - 135	4	25	P8H2524		08-21-2008
Chloroethane	9.17	0.50		ppbv	10.0	92%	65 - 135	3	25	P8H2524		08-21-2008
Chloroform	9.03	0.50		ppbv	10.0	90%	65 - 135	2	25	P8H2524		08-21-2008
Chloromethane	9.30	0.50		ppbv	10.0	93%	65 - 135	1	25	P8H2524		08-21-2008
cis-1,2-Dichloroethene	10.4	0.50		ppbv	10.0	104%	65 - 135	0.6	25	P8H2524		08-21-2008
cis-1,3-Dichloropropene	11.3	0.50		ppbv	10.0	113%	65 - 135	2	25	P8H2524		08-21-2008
Cyclohexane	11.2	0.50		ppbv	10.0	112%	65 - 135	0.5	25	P8H2524		08-21-2008
Dibromochloromethane	9.16	0.50		ppbv	10.0	92%	65 - 135	4	25	P8H2524		08-21-2008
Dichlorodifluoromethane	9.64	0.50		ppbv	10.0	96%	65 - 135	0.7	25	P8H2524		08-21-2008
Dichlorotetrafluoroethane(F-114)	9.62	0.50		ppbv	10.0	96%	65 - 135	2	25	P8H2524		08-21-2008
Ethyl Acetate	11.4	0.50		ppbv	10.0	114%	65 - 135	2	25	P8H2524		08-21-2008
Ethylbenzene	10.9	0.50		ppbv	10.0	109%	65 - 135	3	25	P8H2524		08-21-2008
Freon 113	9.38	0.50		ppbv	10.0	94%	65 - 135	0.2	25	P8H2524		08-21-2008
Heptane	10.1	0.50		ppbv	10.0	101%	65 - 135	4	25	P8H2524		08-21-2008
Hexachlorobutadiene	12.3	1.00		ppbv	10.0	123%	65 - 135	1	25	P8H2524		08-21-2008
Hexane	11.8	0.50		ppbv	10.0	118%	65 - 135	0.3	25	P8H2524		08-21-2008
m,p-Xylenes	21.2	1.00		ppbv	20.0	106%	65 - 135	6	25	P8H2524		08-21-2008
Methylene Chloride	9.30	0.50		ppbv	10.0	93%	65 - 135	1	25	P8H2524		08-21-2008
Methyl-tert-butyl Ether (MTBE)	12.7	1.00		ppbv	10.0	127%	65 - 135	4	25	P8H2524		08-21-2008
o-Xylene	10.5	0.50		ppbv	10.0	105%	65 - 135	4	25	P8H2524		08-21-2008
Propene	10.1	0.50		ppbv	10.0	101%	65 - 135	10	25	P8H2524		08-21-2008
Styrene	10.9	0.50		ppbv	10.0	109%	65 - 135	2	25	P8H2524		08-21-2008
Tetrachloroethene	9.86	0.50		ppbv	10.0	99%	65 - 135	3	25	P8H2524		08-21-2008
Tetrahydrofuran	9.59	2.00		ppbv	10.0	96%	65 - 135	1	25	P8H2524		08-21-2008
Toluene	11.0	0.50		ppbv	10.0	110%	65 - 135	3	25	P8H2524		08-21-2008
trans-1,2-Dichloroethene	10.4	0.50		ppbv	10.0	104%	65 - 135	4	25	P8H2524		08-21-2008
trans-1,3-Dichloropropene	11.2	0.50		ppbv	10.0	112%	65 - 135	3	25	P8H2524		08-21-2008
Trichloroethene	9.51	0.50		ppbv	10.0	95%	65 - 135	3	25	P8H2524		08-21-2008
Trichlorofluoromethane	9.79	0.50		ppbv	10.0	98%	65 - 135	0.9	25	P8H2524		08-21-2008
Vinyl Acetate	12.6	0.50		ppbv	10.0	126%	65 - 135	2	25	P8H2524		08-21-2008
Vinyl chloride	9.97	0.50		ppbv	10.0	100%	65 - 135	4	25	P8H2524		08-21-2008
Surrogate: 4-Bromofluorobenzene	10.1	0.50		ppbv	10.0	101%	70 - 130			P8H2524		08-21-2008

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CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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DATA QUALIFIERS AND DEFINITIONS

N1 See case narrative.

ADDITIONAL COMMENTS

PRH0678

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THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

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Client Contact Information

Company: ACT Environmental
Address: 7592 N La Cholla
City/State/Zip Tucson AZ 85741
Phone: 520 791-5029
FAX: 520 791-9062
Project Name: 28114
Site:
PO # 28114

Project Manager:
Phone: Bill Martin
Email: bfmartin@actenv.com
Site Contact:
LAB Contact:

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

Samples Collected By:

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
28114-4-8-11	8/11/08	2m		0.4, 1.0, 6.0	yellow	1676	X	—	1									
28114-5-8-11	8/11/08	2m		0.4, 1.0, 6.0	yellow	0662	X	—	2									
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														

Special Instructions/QC Requirements & Comments:
please provide analysis on a volume/volume basis corrected to NTP
Samples collected at 150°F

Samples Shipped by:	Date/Time: 8/11/08 3:15pm	Samples Received by:	8/11/08 3:15
Samples Relinquished by: 8/11/08 3:20	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by: Pam Hemmer	8/12/08 0900

Lab Use Only Shipper Name: Opened by: Condition:

TAL-0042 (02/08)