



December 17, 2020

Indiana Department of Environmental Management
Office of Land Quality
State Cleanup Section
100 North Senate Avenue, IGCN, Room 1101
Indianapolis, Indiana 46204-2251
Attn: Mr. Tim Johnson

RE: Status Report
Indoor Air Mitigation System Performance Sampling and
Carbon Filter Replacement
Hurricane Road Industrial Development, LLC Property
Crossroads Recycling Building Office
1062 Eastview Drive
Franklin, Indiana
IDEM SCP Site #2013-34567
Patriot Project No. 20-0317-01E

Dear Mr. Johnson:

Patriot Engineering and Environmental, Inc. (*Patriot*) is pleased to submit this report documenting the October 2020 performance air sampling conducted on the interim indoor air vapor mitigation system at the Crossroads Recycling building located on the Hurricane Road Industrial Development, LLC (HRID) property at 1062 Eastview Drive in Franklin, Indiana (the Site). This work was conducted in response to a request from the Indiana Department of Environmental Management (IDEM) to install a vapor mitigation system to reduce the concentrations of VOCs in the office space at the Crossroads Recycling building. This report describes the work activities that were conducted by *Patriot* during the October 2020 performance sampling event and presents our findings and conclusions relative to the Site.

PROJECT BACKGROUND

Patriot installed an Airpura C600DLX Air Purifier (C600) within the office space at the Crossroads Recycling building where indoor air concentrations of trichloroethylene (TCE) had been detected during previous vapor intrusion investigations at concentrations exceeding the Remediation Closure Guide (RCG) Commercial/Industrial Indoor Air Screening Level (IASL) of 8.8 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The C600 was installed on April 1, 2020 and placed on the ground surface in the north-west corner of the office space. *Patriot* performed vapor intrusion sampling events

immediately prior to startup of the system and at intervals of 2 days, 1 week, and 2 weeks following system setup. During each sampling event, one indoor air sample was collected from the office space over an approximately 8-hour period using a 6-liter batch-certified summa canister equipped with a laboratory calibrated flow regulator and vacuum gauge. The Summa canisters were labeled, logged onto a chain-of-custody form and delivered to the laboratory for short list VOC analyses including TCE, perchloroethylene (PCE), cis-1,2-dichloroethylene (cis-1,2-DCE), trans-1,2-dichloroethylene (trans-1,2-DCE), and vinyl chloride using U.S. EPA Method TO-15. The analytical results for these sampling events are summarized below.

Sample ID	Date	Duration	Analytical Results (ug/m ³)				
			PCE	TCE	c-DCE	t-DCE	VC
Office Baseline	4/1/2020	8 hr	1.7	86.0	ND	ND	ND
Office 48hrs	4/3/2020	8 hr	ND	14.6	ND	ND	ND
IA-6	4/9/2020	8 hr	ND	20.1	ND	ND	ND
Office- 2 Week	4/16/2020	8 hr	ND	10.5	ND	ND	ND
IDEM RCG Residential IASLs			42	2.1	NE	NE	1.7
IDEM RCG Commercial IASLs			180	8.8	NE	NE	28

Notes:

ND= Below Laboratory Reporting Limit

ug/m³ = micrograms per meter cubed

10.5 = Constituent detected above IDEM RCG Residential IASLs

10.5 = Constituent detected above IDEM RCG Commercial IASLs

The sampling events conducted after installation of the C600 showed a substantial reduction in TCE concentrations. Analysis of the post-installation 2-day, one-week and two-week samples reported TCE concentration reductions of 83%, 76.6% and 87.8% when compared to the initial baseline TCE concentration of 86.0 ug/m³. However, all of the samples exceeded the RCG Commercial/ Industrial IASL of 8.8 ug/m³. During each of the post-installation sampling events, *Patriot* noted that the variable airflow controller on the C600 air purifier had been turned down by the tenant to a level below the maximum volume due to noise from the unit and *Patriot* was not able to determine whether the failure to meet the mitigation goal was due to limitations of the C600 or due to the unit not being operated properly. The tenant was reinstructed on use of the C600 and was instructed that the unit must operate at full airflow volume in order to successfully remediate the Indoor Air. An “*Indoor Air Vapor Mitigation System Installation and Startup Report*” documenting the system installation and indoor air sampling was submitted to IDEM on June 4, 2020.

Patriot conducted one-month post-startup performance air sampling on May 6, 2020 and monthly performance air sampling on May 27, 2020 to document the performance of the C600 mitigation system and determine whether break-through of the carbon filter

was occurring. The samples were collected from the office space over an approximately 1-hour period using a 6-liter batch-certified summa canister. Upon arrival at the Site for the May 6, 2020 sampling event, *Patriot* noted that the tenant had set the variable airflow controller at approximately 30% of the maximum airflow. The tenant was reinstructed that the airflow controller needed to be set at maximum volume for proper system operation. The C600 mitigation system was operating at maximum volume at the time of the May 27, 2020 sampling event. The analytical results revealed that the TCE concentration in the indoor air sample collected on May 6, 2020, when the system was operating at approximately 30% volume, exceeded the RCG Commercial/Industrial IASL and the TCE concentration in the indoor air sample collected on May 27, 2020, when the system was operating at maximum volume, was below the RCG Commercial/Industrial IASL. The May 6 and May 27, 2020 monthly performance sampling results were submitted to IDEM in a report dated June 24, 2020 and the analytical are included in the table below.

Patriot conducted monthly performance air sampling events during the months of April through July 2020 in a similar manner to previous sampling events. The analytical results for these monthly sampling events are summarized in the table below.

Sample ID	Date	Analytical Results (ug/m ³)				
		PCE	TCE	c-DCE	t-DCE	VC
Office 1 Month (April)	5/6/2020	4.9	33.1	ND	ND	ND
May Monthly Sample Office	5/27/2020	ND	2.5	ND	ND	ND
June Monthly Sample Office	6/8/2020	ND	2.4	ND	ND	ND
July Monthly Sample Office	7/15/2020	ND	7.0	ND	ND	ND
IDEM RCG Commercial IASLs		180	8.8	NE	NE	28

Notes:

ND = Below Laboratory Reporting Limit

ug/m³ = micrograms per meter cubed

NE = RCG Screening Level not established

10.5 = Constituent detected above IDEM RCG Commercial IASLs

As shown in the table, TCE was detected at concentrations below the RCG Commercial/Industrial IASL during the June and July monthly sampling events. No other VOCs were reported in the samples collected during the June and July 2020 monthly sampling events.

Upon arrival at the Site for the May 27, June 8, and July 15, 2020 sampling events, *Patriot* noted that the variable airflow controller was set at the maximum airflow and the analytical results of these sampling events showed that the mitigation goal had been met. Therefore, it appears that the C600 air purifier is successfully mitigating the indoor air in the office portion of the building when it is properly operated at or near maximum

airflow. *Patriot* replaced the carbon filter in the C600 air purifier immediately following collection of the July monthly air sample. The analytical data indicates that the carbon filter will successfully mitigate the indoor air in the office portion of the building for at least two to three months of continuous operation.

OCTOBER PERFORMANCE AIR SAMPLING

Patriot conducted a performance air sampling event on October 14, 2020 to document the performance of the C600 mitigation system and determine whether break-through of the carbon filter was occurring. Samples were collected from the office space and open warehouse area over an approximately 8-hour period during the work day using 6-liter batch-certified summa canisters in a similar manner to previous sampling events. The analytical results for the October monthly sampling event are summarized in the table below.

Sample ID	Date	Analytical Results (ug/m ³)				
		PCE	TCE	c-DCE	t-DCE	VC
Office Space (October)	10/14/2020	ND	11.2	ND	ND	ND
IA-1 (Warehouse October)	10/14/2020	ND	3.9	ND	ND	ND
IDEM RCG Commercial IASLs		180	8.8	NE	NE	28

Notes:

ND = Below Laboratory Reporting Limit

ug/m³ = micrograms per meter cubed

NE = RCG Screening Level not established

11.2 = Constituent detected above IDEM RCG Commercial IASLs

As shown in the table, TCE was detected at concentrations exceeding the RCG Commercial/Industrial IASL in the sample collected in the office space. No other VOCs were reported in the sample collected in the office space. TCE was also detected in the sample collected from the warehouse area but at a concentration below the RCG Commercial/Industrial IASL. The laboratory analytical report for the October sampling event is included in Attachment B and the field data sheets documenting the sampling event are included as Attachment C.

CARBON REPLACEMENT AND ONGOING PERFORMANCE MONITORING

A replacement carbon filter has been ordered but due to a manufacturing backlog, delivery is not expected until the end of December 2020. *Patriot* will replace the carbon filter as soon as it is received from the manufacturer.

The 8-hour indoor air sample collected in the warehouse portion of the building did not contain VOCs at concentrations exceeding the RCG Commercial/Industrial IASLs

indicating that the exhaust fan installed in the building continues to effectively reduce VOCs in the warehouse area breathing air.

The C600 air purifier and the warehouse area exhaust fan are intended to be interim measures to prevent personnel exposure until a permanent mitigation system can be installed or the source of the indoor air impacts is identified and remediated. Patriot is currently undertaking a Further Site Investigation #4 which identified the presence of at least two subsurface vaults beneath the floor of the building that had been either fully or partially backfilled with sand. The vaults appear to extend adjacent to or under the office area where the elevated indoor air TCE concentrations were encountered. Vapor monitoring of sand from the vaults and the open boreholes through the concrete floor revealed elevated concentrations of total photoionizable vapors and analysis of sand samples from the vaults revealed the presence of TCE and PCE, with a maximum TCE concentrations of 16.0 milligrams per kilogram (mg/kg). In addition, the sub-slab vapor monitoring port where high concentrations of TCE sub-slab soil vapor were previously reported is located immediately above one of the vaults. Patriot is currently preparing a scope of work to identify the number and locations of the subsurface vaults, which will be used to design a remediation system for the impacted sand and mitigate the indoor air TCE using sub-slab depressurization. Until the system is installed, Patriot will change out the carbon filter in the C-600 on a 6-week basis to ensure that breakthrough is not occurring.

Please do not hesitate to contact us if you have any questions regarding this report or if you need any additional information.

Very truly yours,

Patriot Engineering and Environmental, Inc.



James J. Cody
Project Engineer
Environmental Group



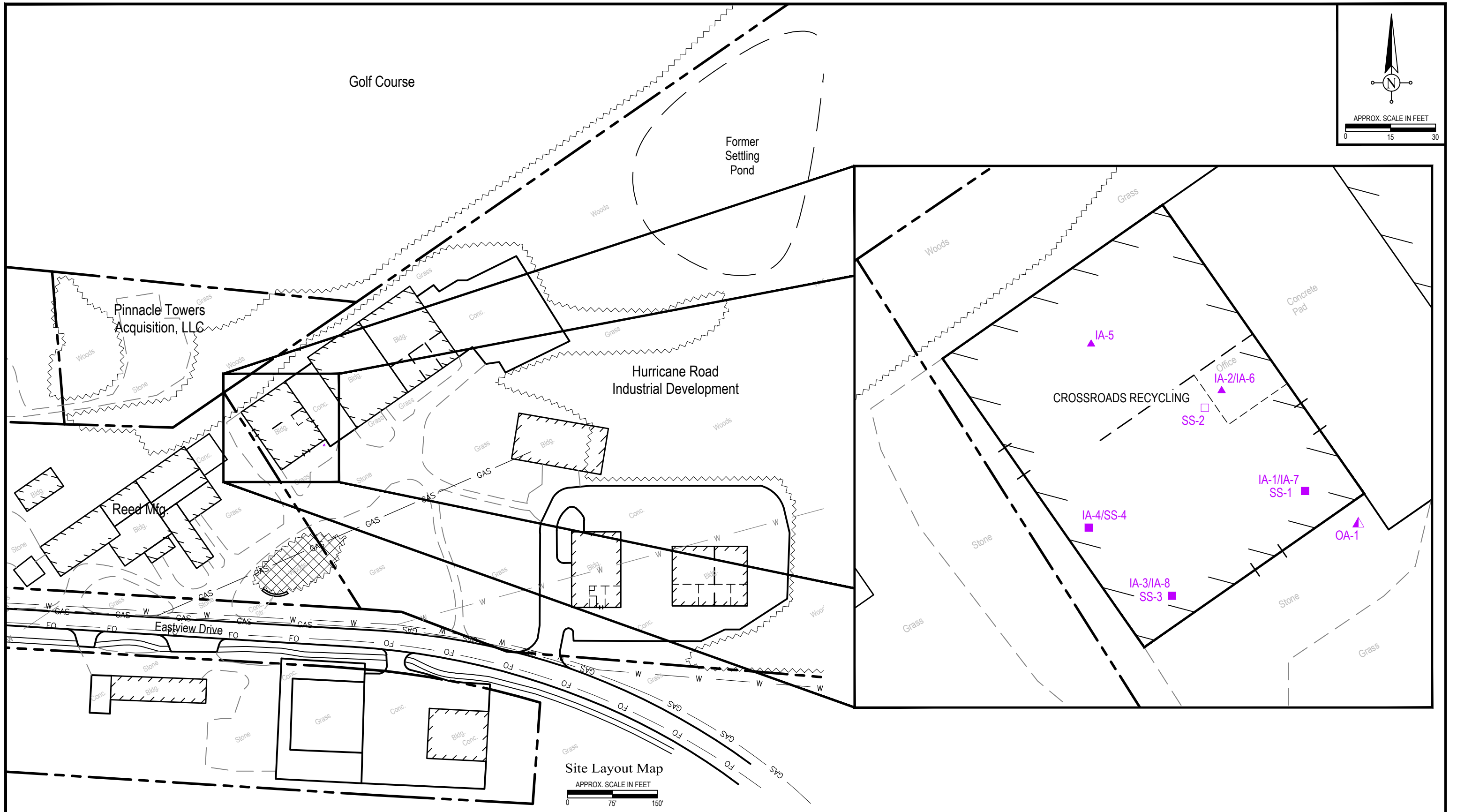
Michael F. Casper, LPG
Principal
Chief Environmental Consultant

Attachments

cc: Greg Cafouros, Kroger Gardis & Regas, LLP

Attachment A

Site Map



LEGEND

- Parcel Line
- Clawson Property Boundary
- Water Line
- Gas Line
- Fiber Optic Line
- Outdoor Air Sample Location
- Indoor Air Sample Location
- Sub-Slab Vapor Sample Location
- Paired Indoor Air and Sub-Slab Vapor Sample Location
- Wooded area with fill and debris

Project: Former Houghland Tomato Cannery
 1130 E. Eastview Drive
 Franklin, Indiana
 IDEM Identification No. 2013-42015

Project Number: 19-1979-01E	Drawn By: J. DuMond
Date: March 4, 2020	Approved: J. Cody
	DWG: 19-1979-01_Ph2

Figure 1
 Crossroads Recycling
 Sample Location Map

Attachment B

Laboratory Report

October 28, 2020

James Cody
Patriot Engineering
6330 East 75th. St.
Indianapolis, IN 46250

RE: Project: CROSSROADS RECYCLING
Pace Project No.: 10536009

Dear James Cody:

Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Mike Casper, Patriot Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CROSSROADS RECYCLING

Pace Project No.: 10536009

Pace Analytical Services - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

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SAMPLE SUMMARY

Project: CROSSROADS RECYCLING

Pace Project No.: 10536009

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10536009001	OFFICE SPACE OCTOBER	Air	10/14/20 14:42	10/19/20 13:07
10536009002	IA-1	Air	10/14/20 14:40	10/19/20 13:07

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SAMPLE ANALYTE COUNT

Project: CROSSROADS RECYCLING

Pace Project No.: 10536009

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10536009001	OFFICE SPACE OCTOBER	TO-15	MJL	5
10536009002	IA-1	TO-15	MJL	5

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: CROSSROADS RECYCLING

Pace Project No.: 10536009

Method: TO-15

Description: TO15 MSV AIR

Client: Patriot Engineering-IN

Date: October 28, 2020

General Information:

2 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10536009

Sample: OFFICE SPACE OCTOBER **Lab ID: 10536009001** Collected: 10/14/20 14:42 Received: 10/19/20 13:07 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	ND	ug/m3	1.5	0.31	1.92		10/27/20 22:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	0.32	1.92		10/27/20 22:31	156-60-5	
Tetrachloroethene	ND	ug/m3	1.3	0.55	1.92		10/27/20 22:31	127-18-4	
Trichloroethene	11.2	ug/m3	1.0	0.34	1.92		10/27/20 22:31	79-01-6	
Vinyl chloride	ND	ug/m3	0.50	0.19	1.92		10/27/20 22:31	75-01-4	

Sample: IA-1 **Lab ID: 10536009002** Collected: 10/14/20 14:40 Received: 10/19/20 13:07 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	ND	ug/m3	1.5	0.31	1.92		10/27/20 23:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	0.32	1.92		10/27/20 23:06	156-60-5	
Tetrachloroethene	ND	ug/m3	1.3	0.55	1.92		10/27/20 23:06	127-18-4	
Trichloroethene	3.9	ug/m3	1.0	0.34	1.92		10/27/20 23:06	79-01-6	
Vinyl chloride	ND	ug/m3	0.50	0.19	1.92		10/27/20 23:06	75-01-4	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING
Pace Project No.: 10536009

QC Batch: 707066 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10536009001, 10536009002

METHOD BLANK: 3777377 Matrix: Air
Associated Lab Samples: 10536009001, 10536009002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	0.81	0.16	10/27/20 15:22	
Tetrachloroethene	ug/m3	ND	0.69	0.29	10/27/20 15:22	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	0.17	10/27/20 15:22	
Trichloroethene	ug/m3	ND	0.55	0.18	10/27/20 15:22	
Vinyl chloride	ug/m3	ND	0.26	0.10	10/27/20 15:22	

LABORATORY CONTROL SAMPLE: 3777378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.8	39.4	94	70-132	
Tetrachloroethene	ug/m3	74.9	62.6	84	70-136	
trans-1,2-Dichloroethene	ug/m3	41.9	38.8	93	70-132	
Trichloroethene	ug/m3	56.7	50.7	89	70-132	
Vinyl chloride	ug/m3	28.5	23.9	84	68-141	

SAMPLE DUPLICATE: 3778374

Parameter	Units	10536083001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	3.5	3.4	3	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 3778375

Parameter	Units	10535722009 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CROSSROADS RECYCLING

Pace Project No.: 10536009

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CROSSROADS RECYCLING

Pace Project No.: 10536009

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10536009001	OFFICE SPACE OCTOBER	TO-15	707066		
10536009002	IA-1	TO-15	707066		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company Name: **PACRUX ENGINEERING** Report To: **JAMES CODY** Invoice Information: Invoice Number: **40628** Page: **1** of **1**

Section B Required Project Information: Address: **6150 E 75th St** Copy To: **MIKE CASPER** Attention: **JAMES CODY** Company Name: **PACRUX ENGINEERING** Project Name: **CROSSROADS RECYCLING** Address: **INDIANAPOLIS, IN** Purchase Order No.: **35148** Location of Sampling by State: **IN** Reporting Units: **ug/m³** **mg/m³** **PPBV** **PPMV** Other: **Other** Report Level: **II** **III** **IV** Other: **Other**

ITEM #	Valid Media Codes	Section D Required Client Information	MEDIA CODE	PID Reading (Client only)	COLLECTED		Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	Method:	Method:											
					DATE	TIME						DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
1	6LC	OFFICE SPACE OCTOBER 1A-1	6LC	10/14 8:25	10/14 14:40	30	29	3350046	X	PM10	PM10	3C - Fixed Gas (%)	TO-15 Full List VOCs	TO-15 Short List VOCs	TO-15 Short List Chlordane	TO-15 Short List (Other)	Pace Lab ID	001					
2	6LC		6LC	" 8:25	" 14:40	30	29	4231840	X	PM10	PM10	3C - Fixed Gas (%)	TO-15 Full List VOCs	TO-15 Short List VOCs	TO-15 Short List Chlordane	TO-15 Short List (Other)	Pace Lab ID	002					

Comments	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JAMES CODY/PACRUX	10/16/20	15:00	MIKE CASPER	10/19/20	13:07	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact

W0#: 10536009

10536009

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **JAMES CODY**
 SIGNATURE of SAMPLER: *James Cody*
 DATE Signed (MM/DD/YY): **10/16/20**



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company: **PACRUX ENGINEERING**
Address: **6150 E 75th St**
INDIANAPOLIS, IN
Email To: **scot@pacruxeng.com**
Phone: _____ Fax: _____

Requested Due Date/TAT: **NORMAL**

Section B
Required Project Information:

Report To: **JAMES CODY**
Copy To: **MIKE CASPER**
Purchase Order No.: _____
Project Name: **CROSSROADS RECYCLING**
Project Number: _____

Section C
Invoice Information:

Attention: _____
Company Name: _____
Address: _____
Pace Quote Reference: _____
Pace Project Manager/Sales Rep. _____
Pace Profile #: **35148**

Page: **1** of **1**

40628

Program: _____
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other _____

Location of Sampling by State: **IN**
 Reporting Units: ug/m³ mg/m³
 PPMV PPMV _____
 Other _____

Report Level: II. _____ III. _____ IV. _____

ITEM #	Valid Media Codes	MEDIA CODE	PID Reading (Client only)	COLLECTED		Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				COMPOSITE START	COMPOSITE END										Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
1	Office Space	6LC		10/14	8:25	14:40	30	335	0046	10/19/20	13:07	Mark S. Lee	10/19/20	13:07	Y/N	Y/N	Y/N	Y/N
2	IA-1	6LC						423	840						Y/N	Y/N	Y/N	Y/N
3															Y/N	Y/N	Y/N	Y/N
4															Y/N	Y/N	Y/N	Y/N
5															Y/N	Y/N	Y/N	Y/N
6															Y/N	Y/N	Y/N	Y/N
7															Y/N	Y/N	Y/N	Y/N
8															Y/N	Y/N	Y/N	Y/N
9															Y/N	Y/N	Y/N	Y/N
10															Y/N	Y/N	Y/N	Y/N
11															Y/N	Y/N	Y/N	Y/N
12															Y/N	Y/N	Y/N	Y/N

Comments:

RELINQUISHED BY / AFFILIATION: **JAMES CODY/PACRUX** DATE: **10/16/20** TIME: **15:00**

ACCEPTED BY / AFFILIATION: **Mark S. Lee** DATE: **10/19/20** TIME: **13:07**

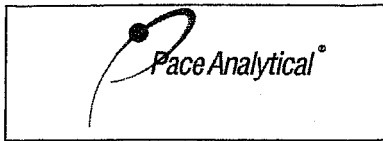
SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **JAMES CODY**

SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): **10/16/20**

W0#: 10536009

10536009



Document Name:
Sample Condition Upon Receipt (SCUR) - Air
 Document No.:
ENV-FRM-MIN4-0113 Rev.00

Document Revised: 24Mar2020
 Page 1 of 1
 Pace Analytical Services -
 Minneapolis

**Air Sample Condition
 Upon Receipt**

Client Name: Patriot Eng.

Project #:

WO# : 10536009

PM: CT1 Due Date: 10/26/20
 CLIENT: PATRIOT

Courier: Fed Ex UPS USPS Client
 Pace SpeedDee Commercial See Exception

Tracking Number: 1723 2546 5193

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermometer Used: G87A9170600254
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 10-19-20 MZ

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH) -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>Office Space</u>	<u>3375</u>	<u>46</u>	<u>-9</u>	<u>+5</u>					
<u>IA-1</u>	<u>3423</u>	<u>1840</u>	<u>-9</u>	<u>+5</u>					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trust

Date: 10/20/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Attachment C

Field Data Sheets



VIA Field Sampling Data Sheet

Date: 10/14/20 Sampler Name: S CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-1

Sample Location: WAREHOUSE

Type of Sample (sub-slab/exterior soil gas/indoor air/outside air): INDOOR AIR

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: DRY 60°

Leak Testing Before Sampling?: NA

Well Purged Prior to Sampling?: NA

Sample Start Time: 8:25

Vacuum Reading of Sample Can at Start of Sampling: -30

Sample End Time: 14:40

Vacuum Reading of Sample Can at End of Sampling: -9

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



VIA Field Sampling Data Sheet

Date: 10/14/20 Sampler Name: J CEDY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: OFFICE SPACE OCTOBER

Sample Location: OFFICE SPACE

Type of Sample (sub-slab/exterior soil gas/indoor air/outside air): INDOOR AIR

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: DRY 60°

Leak Testing Before Sampling?: NA

Well Purged Prior to Sampling?: NA

Sample Start Time: 10:26

Vacuum Reading of Sample Can at Start of Sampling: -30

Sample End Time: 14:42

Vacuum Reading of Sample Can at End of Sampling: -9

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO